



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

كلية علوم الحاسب وتقنية المعلومات
College of Computer Science and Information Technology



GRADUATION PROJECT SHOWCASE 7

2019-2020

Introduction

Since 2010 the College of Computer Science and Information Technology (CCSIT) has been established. As CCSIT is currently one of the largest colleges in Imam Abdulrahman Bin Faisal University. The college has been committed to provide its students with an innovative and state-of-the-art computer science curriculum which will allow the student to develop their knowledge as well as applying it into practice. Therefore, the aim of the college is to support the students to deliver an excellent graduation projects.

The College of Computer Science and Information Technology is keening to provide the help of students in order to help the community services as nowadays technology sector is taking a huge part of different applied areas, life and medical fields based on this principle, an exhibition is held annually for such projects.

This booklet provides a brief introduction for these projects at the College . It includes 23 projects for Computer Science program (CS), 9 projects for Cyber Security program (CYS) and 26 projects for Computer Information Systems program (CIS) for both male and female sections.

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College Participations



ملتقى ومعرض ريادة الأعمال
Entrepreneurship Forum & Exhibition

The sixth edition 2019 Entrepreneurship Forum and Exhibition (RAD), to support the products and services of young men and women projects.



The e-AGE conference held at Khalifa University in Abu Dhabi, UAE



WOMEN IN DATA SCIENCE
DHAHRAN

Women in Data Science @
KFUPM workshop poster session
held at KFUPM (Dhahran, KSA).



International Conference 2020 on Computer and Information Sciences (ICCIS).



Paper acceptance in 3rd International Conference on Computer Applications and Information Security (ICCAIS 2020)



**Food and Agriculture
Organization of the
United Nations**



**World Health
Organization**



The Second Global Meeting of the FAO/WHO International Food Safety Authorities Network (INFOSAN)

College Participations



IEEE International Conference on
IMAGING SYSTEMS & TECHNIQUES

The IEEE IST 2019 Student
Research Competition; held in
Abu Dhabi, UAE

جامعة الملك عبد الله
للعلوم والتقنية
King Abdullah University of
Science and Technology



The 9th annual undergraduate poster
competition



Organize the exhibition to create
opportunities in the Middle East



the General Authority for Small and Medium Enterprises
“Monshaat” are to organize, support, develop and sponsor the
SME sector in accordance with best global practices



World Arabic Language Day 2019 –
Round Tables on Arabic Language
and Artificial Intelligence



The Startup Saudi Arabia 2019
Entrepreneurship Forum



The 3rd Saudi international Exhibition & conference for
Internet of things

CS Projects Achievements

Project Name	The Achievement
HITAF: Mobile Application for Real-Time Sign Language 3D-animator for the Arabic Language	Paper in the 3 rd ICCAIS 2020
	Abstract accepted in IEEE International Conference on IST
	Paper submission in 2020 ICCIS
	Dell Technologies: Regional Graduation Project Competition.
	Paper in the 4 th Saudi international Exhibition & conference for IoT, Riyadh.
PeriodDict: An Automated System for Early Diagnosis of Periodontitis using Image Analysis and Machine Learning	KAUST's 9 th Annual International Undergraduate Poster Competition
	Poster in IEEE IST 2019 Student Research Competition; Abu Dhabi, UAE
Detecting Malicious HTTP Communication with Machine Learning	Poster in 3 rd Saudi international Exhibition & conference for IoT, Riyadh.
Arabic Sign Language Translator using Deep Convolution Neural Network	Poster in IEEE IST 2019 Student Research Competition; Abu Dhabi, UAE
Optimizing Non-Local Means Filter for Seismic Data Processing	Poster accepted in Women in Data Science workshop poster session held at KFUPM.
	Poster in IEEE IST 2019 Student Research Competition; Abu Dhabi, UAE
Meqyas - Health Tracker Application	Poster in IEEE IST 2019 Student Research Competition; Abu Dhabi, UAE
LAFEEF: Crowd Management in Hajj & Umrah Using Image Processing and Machine Learning	Poster in IEEE IST 2019 Student Research Competition; Abu Dhabi, UAE
A Non-invasive Device and Automated Monitoring and Tracking System Using Peak Flow Meter for Asthma Patients	Poster in 3 rd Saudi international Exhibition & conference for IoT, Riyadh.
	Paper Submission IEEE
Pre-emptive Diagnosis of Atherosclerosis, Hypertension, Hepatocellular Carcinoma and Hepatitis C Diseases Using Computational Intelligence Techniques	Poster in 3 rd Saudi international Exhibition & conference for IoT, Riyadh.

CIS Projects Achievements

Project Name	Achievements
Para Assist Paramedic Assistant System Using Patients' Biometrics	Poster in IEEE IST 2019 Student Research Competition; Abu Dhabi, UAE
SmartFair Guide	Paper in 3rd ICCAIS 2020
	Scientific paper accepted in "IEEE"
ALMUSEAF	Paper in 3rd ICCAIS 2020
	Poster in IEEE IST 2019; Abu Dhabi, UAE
Mobile Application for Chronic Kidney Disease Patients	Selected to be supported by "Be Smart Technology Company"

CYS Projects Achievements

Project Name	Achievements
ML Based Undetectable Side-Channel Attack Utilizing Smartphones (MLSS)	Paper in 3rd International Conference on Computer Applications and Information Security (ICCAIS 2020)
	Paper in 2020 International Conference on Computer and Information Sciences (ICCIS)
	Paper in 2020 International Conference on Computing and Information Technology (ICCIT -1141)

CS





COMPUTER SCIENCE PROJECTS



Achievements:



Hitaf: Mobile Application for Real-Time Sign Language 3D-animator for the Arabic Language

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Brief Description

Sign language is visual, and non-verbal language depends on hand gestures and facial expressions. Many people think there is only one sign language among the world, but in fact, it varies between countries, and sometime between different regions in one country. Due to this reason, it's hard to learn, even though it is necessary to communicate between/with the deaf/mute (hearing and speaking impaired). Due to limited existence of mobile application for the Arabic sign language specifically for children. We create an application to ease the communication between the deaf/mute children, and to facilitate the Arabic language learning process.

HITAF application provides a platform to bridge the communication gap between the deaf/mute children and hearing children by creating interactive environment in a real-time language-translation system. It translates the Arabic text and speech into sign language through a 3D-illustrative avatar. The system improve reading and writing skills in the Arabic language for deaf/mute children. Moreover, it improves the linguistic outcomes for the deaf/mute children and help deaf/mute children to relate the word with its relevant sign. HITAF use audio processing and text Processing for reading an input and extracting features, and computer graphics for creating a 3D animator.

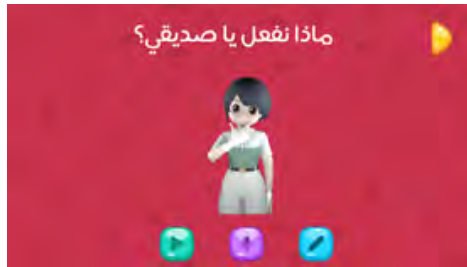


Figure 1 Child Home Page



Figure 2: Text to video translation page



Figure 3: Video playing (cinema mode) page



Figure 4: Video playing (cinema mode) page

PerioDict



IEEE International Conference on
IMAGING SYSTEMS & TECHNIQUES

PerioDict: An Automated System for Early Diagnosis of Periodontitis using Image Analysis and Machine Learning

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Brief Description

Periodontitis, or periodontal disease, is defined as a serious infection of the gums. This disease can be reversible if it is detected at an early stage. However, if left untreated, it may possibly lead to other consequences such as: an increased risk of developing heart disease, serious damage to the gums and bones surrounding the teeth, and an elevated risk of developing cancer.

Our proposed system intends to provide a non-invasive method for early detection of periodontitis as opposed to invasive and painful traditional diagnosis methods. The system will use object detection and recognition techniques performed by deep learning for an accurate early diagnosis. By developing PerioDict, we aim to support the field of dentistry with a reliable and cost-effective system that aids in reducing the severity of periodontal disease by early non-invasive diagnosis.





Detecting Malicious HTTP Communication with Machine Learning.

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Achievements

Brief Description

The Network has long become a major platform for cybercrimes through malicious traffics that host unsolicited contents. It is imperative to detect these harmful contents promptly to minimize the consequences that can hit the companies' network.



To prevent these security threats to happen a variety of traditional ways are used such as firewall, online tools, and blacklists which cannot be exhaustive and cannot detect newly generated malicious HTTP traffics. This project focuses on HTTP traffics only since the attacks always start in HTTP layer, and there is no clear protection against HTTP requests attacks. This project proposed by Mr. Aminullah Tora from Saudi Aramco. It focuses on designing and developing a desktop application that uses Machine Learning models to detect anomalous and malicious HTTP traffic logs. Three machine learning models were trained and tested on three datasets which are CSE & CIC, URLs, and User agents. These models are integrated within desktop application to ease the detection process.



Figure 1: Upload file interface



Figure 2: Scan uploaded file interface



Method and Device for Implementing a Quiet Zone

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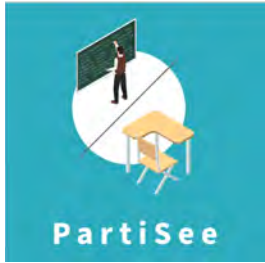
Reema Ibrahim Alyousef

Sukaina Ibrahim Alhajri

Brief Description

While there are many pre-existing technologies to mute notifications, they all require a direct action from the user and people may forget to set their phones to silent mode. In order to solve this problem, this project aims to implement an environment with a pre-determined perimeter known as the Quiet Zone, this perimeter will be specified through the use of unique transmitters known as BLE beacons, which are capable of sending signals that could be recognized by mobile phones. Once a smartphone enters the proximity of the Quiet Zone, it will automatically be set to silent, and the initial setting will be restored once it leaves its range, thus not acquiring any direct manipulation from the user.





PartiSee: Towards a Smart Campus Anomaly Detection System Tailored for Partition Rooms.

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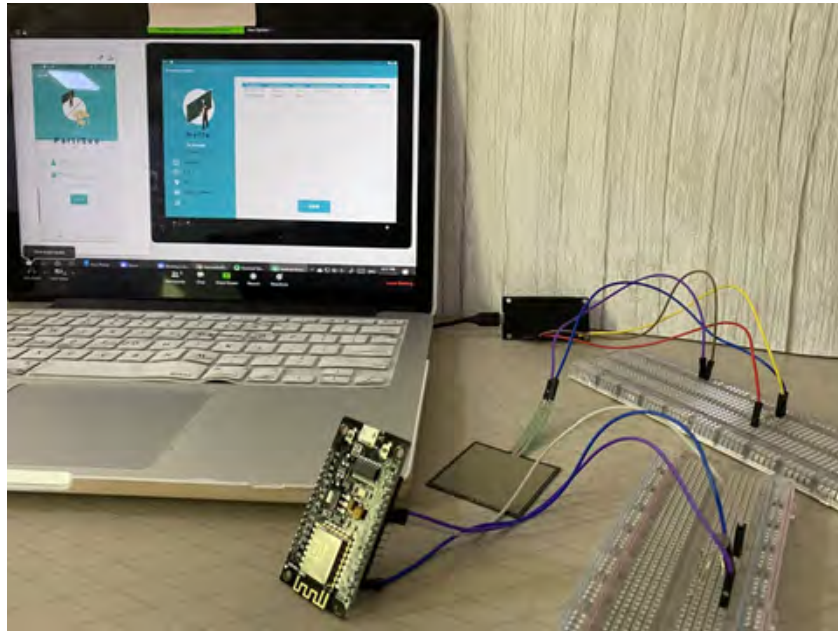
Njood S. Al daghfaq

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Brief Description

Teaching in partition rooms comes with many challenges due to the lack of regular contact with students. Monitoring attendance is recurrently reported, as well as assessing the engagement level of students. This project addresses these problems by creating a system that can effectively monitor attendance and engagement through sensors' data. The collected data is analyzed to provide to the male instructor a glimpse of what is happening behind the partition.

To showcase the variety of anomaly that can be included in such a system, it also highlights some aspects of energy consumption by monitoring light levels in classrooms. The proposed system can easily be used in crowded classrooms, or conference halls, providing a timely feedback to instructor / presentator thus enabling pre-emptive remedial actions.



Arabic Sign Language Translator using Deep Convolution Neural Network



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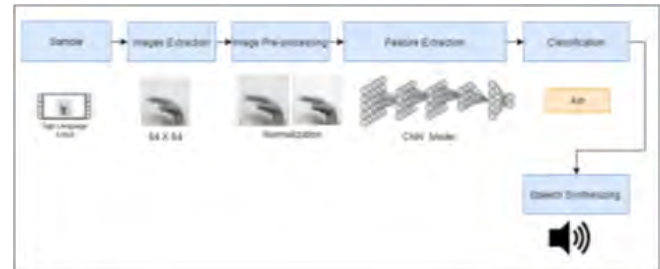
Achievements:



Brief Description

With the emergence of new development and technologies that solve our daily life problems, there is still a lack in the field of sign language recognition systems, especially for Arabic sign language. The recent advances in Deep Learning (DL) have caused breakthroughs in many fields such as computer vision, natural language processing (NLP) and speech processing. In this project, the proposed Arabic Sign Language (Wesal) Translator is presented as a web application that uses Computer Vision, Natural Language Processing (NLP) and Deep Learning techniques to translate Arabic sign language to text and audio format.

Wesal Translator will be developed using Python programming language, Image segmentation will be used in image pre-processing to identify the hand of the whole image, then Conventional Neural Networks will be used for image classification. Finally, NLP will use an open-source library for the Arabic language. Thus, Wesal Translator is designed to achieve a level of accuracy in predicting the label of imported sign gestures and translate it to its corresponding meaning in the Arabic language.





Optimizing Non-Local Means Filter for Seismic Data Processing

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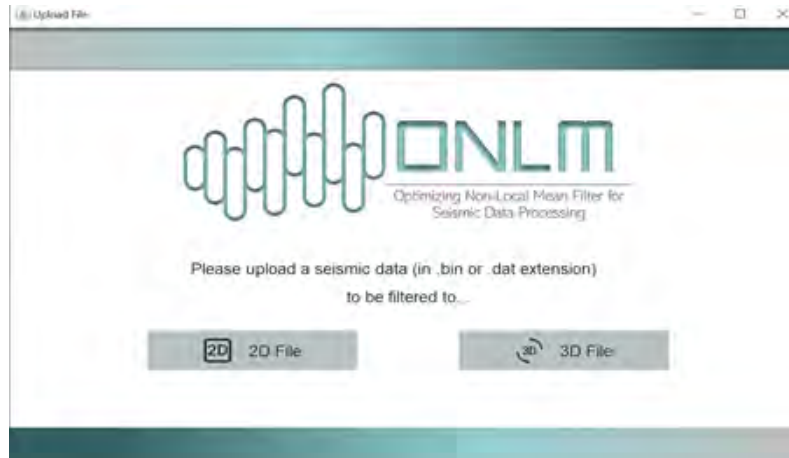
Brief Description

The seismic reflection method is one of the most important methods in geophysical exploration. There are three stages for the seismic exploration survey: data acquisition, processing, and interpretation. This project focuses on a data pre-processing tool to attenuate the noise in seismic data – the Non-Local Means (NLM) filter algorithm, which is a powerful technique that can significantly suppress the noise in seismic data. This project is based on a prototype research code, which is a straightforward implementation of the Non-Local Means filter algorithm.



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The prototype code is not capable of processing large volume seismic data because of both its performance and memory usage limitations. 3D seismic data volumes are very large, often exceeding one terabyte (TB). These data volumes are too large to store in computer Random Access Memory (RAM), and the NLM takes a long time. These factors make the NLM algorithm an ideal candidate for a parallel memory solution. This project redesigned and implemented the Non-Local Means filter algorithm in C++ programming language and optimized it by using parallel programming and enabling maximum speed optimization. The new implementation achieved excellent performance where it surpassed the speed of the prototype by almost 87 times and is capable of processing typical production-size 3D seismic data.





Bi-directional Machine Learning Based Prediction System towards Achieving Realistic Renewable Energy Utilization in Saudi Arabia

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Brief Description

This project seeks to assist in realistic renewable energy utilization in Saudi Arabia. It investigates the use of high performing machine learning techniques to achieve accurate prediction of solar radiation and energy consumption. Based on the results of predictions, certain cities in the kingdom are deemed either able to rely on renewable energy or not.

Clean Energy

MAIN

- [Profile](#)
- [Manage Users](#)
- [Make Predictions](#)
- [History](#)
- [Logout](#)

HELP

- [Settings](#)
- [Documentation](#)

Prediction Results

GHI (Solar) VS. Electricity Consumption Predictions

Legend: GHI (Solar Power) (blue line), Electricity Consumption (orange line)

Summary Of Results

Average value of solar power is not enough to accommodate the electricity demand

Start New Prediction

Choose a city:
Al-Hassa

Choose Prediction Type:

- Both Solar and Electricity
- Solar energy production
- Electricity consumption

Upload dataest files:

Solar Energy:
Choose File No file chosen

Electricity Consumption:
Choose File No file chosen

[Predict](#)



Lafeef: Crowd Management in Hajj & Umrah Using Image Processing and Machine Learning

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Brief Description

As Saudi Arabia is the country of the Holy mosque in Makkah, it receives over 2 million pilgrims a year. Consequently, it gets harder to manage the crowd, especially near the gates inside of the Holy mosque. The project proposes a solution that will automate the process. It relies on three major parts, divided into two phases. The first phase is concerned with video processing and machine learning to detect humans and count them, while the second is concerned with applying a scheduling algorithm to manage the pilgrims' flow through gates. Upon applying the proposed method, gatekeepers will be able to maintain an adequate decision-making speed for the mass of visitors.



Visualizing Time Series of Hierarchical Petroleum Wells by developing Dynamic Well View (WeView, version 2.0) Analyzer

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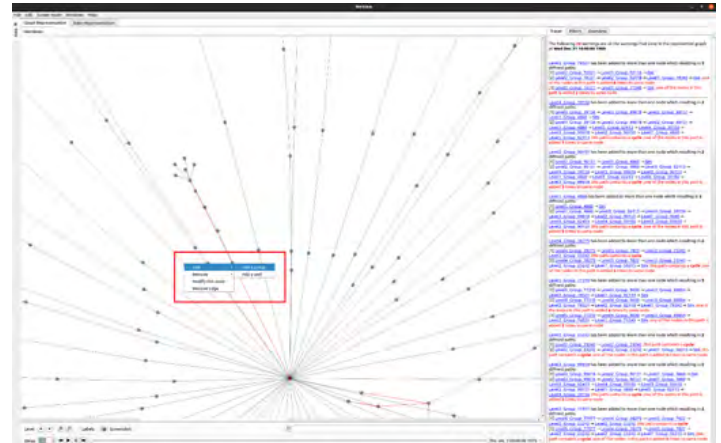
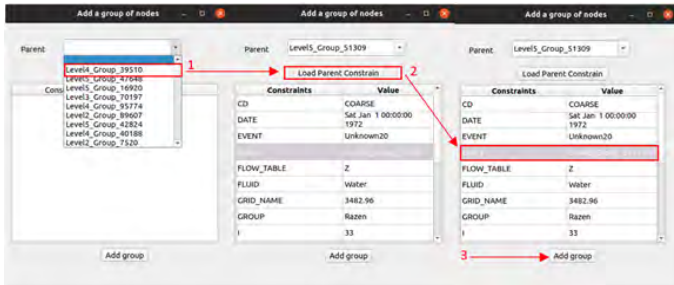
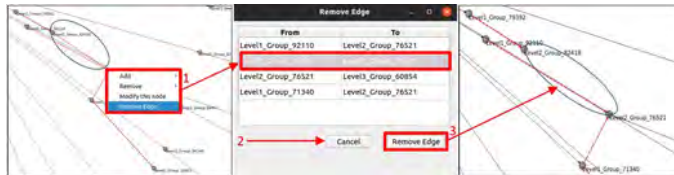
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Brief Description

WeView is a visual simulator that allows reservoir engineers and support personnel to track the behavior of petroleum wells and groups and how they dynamically change over time, it also helps engineers modify or delete the input files easily. In addition, it detects the abnormal conditions and the unintentional errors found in the model files. WeView works as an interface to one of the key input-data to YY (Removed for confidentiality).

WeView should work properly on Linux OS, Red Hat Enterprise distribution, version 6, 7, or later. Since WeView is written in C/C++ programming languages, Qt Creator and Qt Designer (C/C++ Runtime Environment) should be downloaded.





Achievements:



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MEQYAS - Health Tracker Application

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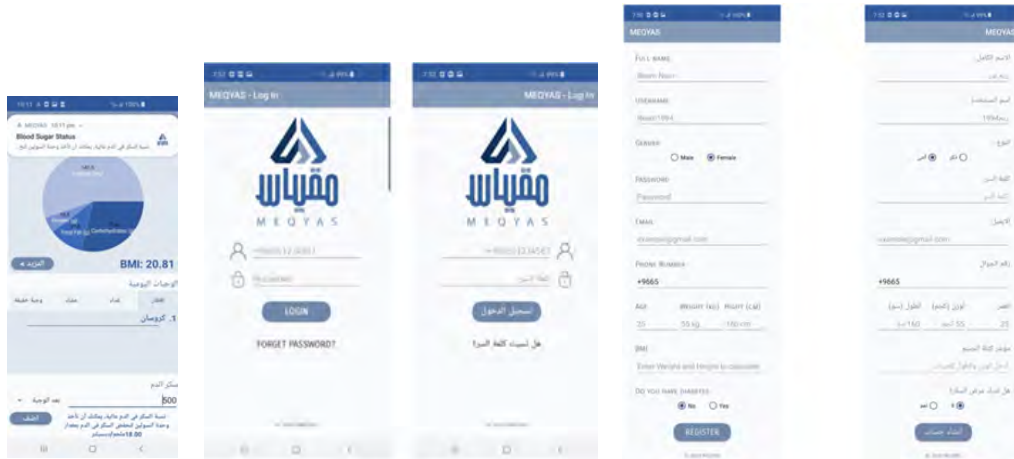
Jumana Alsharidi

Brief Description

No one denies the fact that stable health is the key to well-being and happiness in life. To keep human healthy, they need to keep an eye on their routines, such as eating, exercising, and well- sleeping. Eating healthy food affects humans' bodies in different ways. As people need to keep track of their healthy food consumption, there is an obvious need to offer such a technology helping them planning and building a healthy lifestyle. MEQYAS aims to be a helper tool for those people and guide them in reaching their goal.

MEQYAS is an android-based application that helps its users keep track of package food. By scanning the product's label, users can view all the nutritional information of that product. Additionally, they can count their daily consumed calories based on the serving size they have taken. The app grants its users the ability to add items in one of four meals-category, so it is easy for them to view each meal.

The application aims to serve two types of users, which are ordinary users and users with diabetes.





Early Diagnosis of Asthma, Thyroid Cancer and Schizophrenia Diseases Using Computational Intelligence Techniques

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Brief Description

In recent days, researchers noticed how chronic diseases have become common. Chronic diseases have increased in rate due to genetics and other risk factors. In the Kingdom of Saudi Arabia, the number of patients with chronic diseases has turned to be a big issue. In this project, we will work on developing machine learning-based tools that will serve as early warning systems in detecting even the slightest signs of the presence of any of these chronic diseases at a very early stage. This will surely reduce, if not totally eradicate, the potential dangers often associated with these diseases when detected at the later stage.

Moreover, the most significant expected outcomes are to know the possibility of getting the selected diseases or identifying their presence at a very early stage in order to improve the state of health in the Kingdom of Saudi Arabia.



Developing Healthcare System



Using Computational Intelligence



SAUDI ARABIA

In the Kingdom of Saudi Arabia.



Bracelet for Fear and Anxiety Recognition (GUARD)

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Brief Description

Nowadays, the incidence of violence or harassment of children has risen. Due to that, it has become difficult for parents to allow their children to move independently and unsupervised. This led us to introduce the GURAD Bracelet idea that serves parents and alleviates their concern for the safety of their children.

Our project offers a technical solution that helps the parents to check on their children all the time. It is a system consisting of a mobile application associated to an electronic bracelet that measures and analyze the heartbeat of a child to determine the child heart rate, the bracelet will send an alert to parents via the application. The system also provides a location tracking to help the parents locate their child.





Memory Shadow

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Brief Description

Alzheimer's disease is one of the most common diseases among the elderly around the world. Alzheimer's is a progressive disease that develops slowly and worsens over time. The proposed system will help caregivers for Alzheimer's patients by providing a variety of services to facilitate their daily care tasks. This application provides many functions such as tracking the movements of the patient via the (GPS), the feature of tracking the live current location of the patient also communicate with a chatbot using artificial intelligence technique, tracking the vital signs of the patient, and several other services.



MyCounselor



Online Psychological Consultation (MyCounselor)

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Meznah Abdullah AL-Otabi

Brief Description

MyCounselor is a system that offers online counselling sessions with professional counsellors via text messages along with voice and video calls. The system helps saving patients' effort and time from coming to the clinic in person. Also, it gives the opportunity for counsellors to help individuals remotely.



Figure 1: MyCounselor System Structure



Figure 2: MyCounselor Home page (website)



Non-invasive Device and Automated Monitoring and Tracking System Using Peak Flow Meter for Asthma Patients

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Muneera Alhajri

Brief Description

Our project aimed to help the asthma patients by providing them with a modified peak flow meter device and an application, that helps to help them in monitoring and keeping track of their condition. It assists them in keeping track of their medicine doses and appointments, remind them to blow 2 times a day in the device. It also provides an action plan that adjusts the patient condition and what to do in each zone, besides it provides to the user adding his healthcare provider info to contact them and send a pdf file that contains his status for the past month.

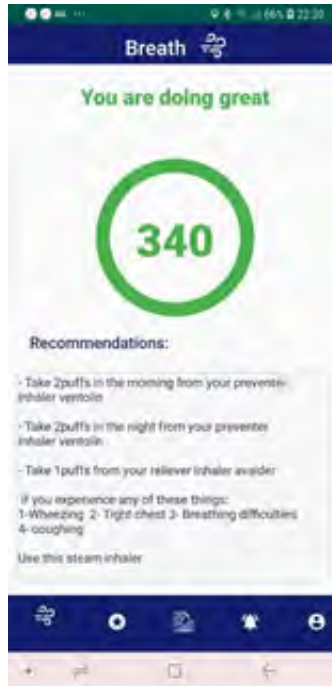


Figure 1: User Score Interface



Life Fitness

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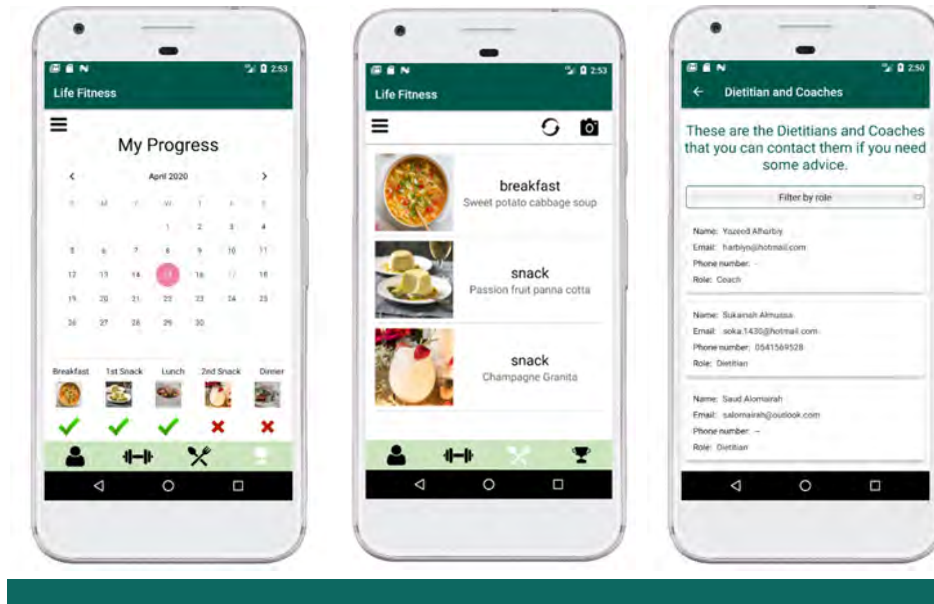
Ruqayah Mohammed Albahrani

Sara Bandar Alhajri

Brief Description

There are many applications that help people to be interested in their fitness by providing exercises and healthy meals and each application differs from the other in terms of features and each of them serves one field. However, the "Life Fitness" application will combine these features in one application. Where "Life Fitness" is a mobile application on the android system that serves the adult people from 18 to 35 years of males and females.

This project will cover many features that exist in separate applications such as provide a healthy meal and scan the meal code to know the nutritional values. In addition, it provides the contact information for a dietitian and coaches to make the user contact them. In addition, to a new feature offered in this application ,which is, predicting the most suitable exercise duration based on the users information.



CAPEs: Conversational Agent for Professional Examinations Advisory.

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Leena Hassen Alamri

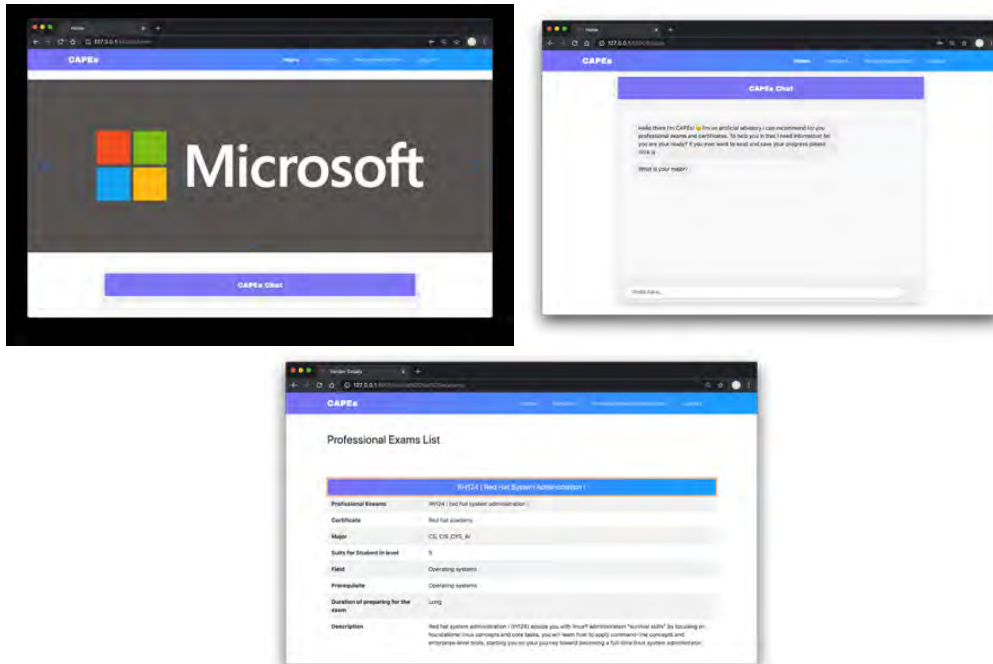
Maha Dhawi Alotaibi

Samar Fahad Alsahali

Brief Description

In our modern day and age, students of different levels tend to undertake professional examinations (PEs) to obtain certifications that would proof their knowledge and expertise in their respected fields. This will help them in seeking career boosts in various domains. However, a challenging point arises, in which many students express a lack in awareness about which PEs to consider, and which PE is mostly suited to their professional needs. In this research, a solution is proposed to overcome this challenge by designing and developing a web-based recommendation system based on textual Conversational Agent (CA) called CAPEs Advisory: Conversational Agent for Professional Examinations Advisory. CAPEs Advisory provides smart recommendations for proper exam pathways that would suit the students' various knowledge and skill levels in Imam Abdulrahman Bin Faisal University.

The proposed architecture for CAPEs Advisory uses Natural Language Processing (NLP) techniques by applying both pattern matching (PM) and a semantic similarity algorithm to extract facts from user's responses to match rules in the scripted conversation. An evaluation methodology and experiments are designed and conducted by using subjective and objective methods to evaluate the CAPEs Advisory components. The results showed a statistically significant impact on the effectiveness of the CAPEs Advisory engine in the correct responses. In addition, the results show that CAPEs Advisory is effective as Professional Examinations Advisory with the majority user satisfaction.





NeuARo

AUGMENTED REALITY
IN NEUROSURGERY TRAINING SYSTEM

NeuARo: Application of Augmented Reality in Neurosurgery Training System.

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Dhuha M Almutairi

Layan A Alturki

Brief Description

The implementation of Augmented Reality in medical simulations with interactive 3D models is novel in the medical domain and research area, which improves the training results of medical students and surgeons. This project specializes in neurosurgery, since the brain is the most complex organ in the human body minor or major errors in neurosurgery can led to hazardous consequences. Therefore, training is certainly fundamental to reduce errors. This project provides interactivity between the user and the 3D model, the published projects only provided observation.

Medical students and surgeons will benefit and gain experience from training with an interactive 3D model and using virtual tools that is equivalent to the real surgery tools, instead of observing other surgeons performing the surgery. Furthermore, trainees will be able to learn and make mistakes with low failure cost.



Non-Ideal Iris Biometric System

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Fatimah Jawad AlShaikh
Masouma Mohammed Al Obaidan
Zahra'a Mohammed AlTalaq

Brief Description

Due to large security threats posed by the criminals and terrorists around the globe, secure and reliable identification of a person is always a big question. It means that Is a person really the one who he/she claims to be? or who is he/she?. Today, we most frequently hear local and global news about the cybercrimes, e.g., illegal access to personal's information, assets, bank accounts, credit cards, and among others. No doubt, most of these events occur because of the loopholes in traditional security systems. Tradition security measures strongly rely on the knowledge (e.g., PIN, Password) and token (e.g., Passport, ID Card, Key) based techniques, which could be stolen, hacked, forgotten and/or lost.

To cope with this scenario, the research community approached towards the usage of Biometric technology. This technology is rapidly replacing traditional security means. At present, numerous biometric modalities (e.g., face, fingerprint, signature, iris, retina, gait, footprint, voice, hand geometry, blood pulse, palm print, etc.) are considered in the leading and emerging biometric systems. Among these traits, iris has received more considerations from the research community. It is because it stays almost stable over the entire life of a subject except some minor changes occurring in early life stages.

A commercial iris biometric machine comprises four basic modules: i) eyeimage acquisition, iris segmentation, features extraction, and matching and recognition. Among these modules, segmentation plays a very decisive role. It is because that it isolates the valid part of iris, which the systems' subsequent modules rely on. This module marks the valid boundaries of iris and removes the superimposed noise if any. In this project, our focus would be to develop a prototype of an iris biometric system for the near infra-red (NIR) eyeimages acquired under strict constraints.





Car-Pooling System

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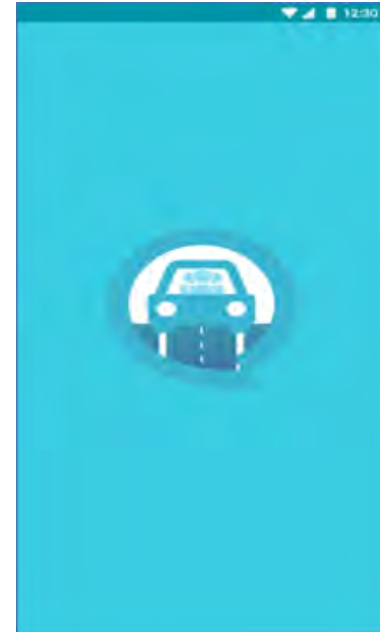
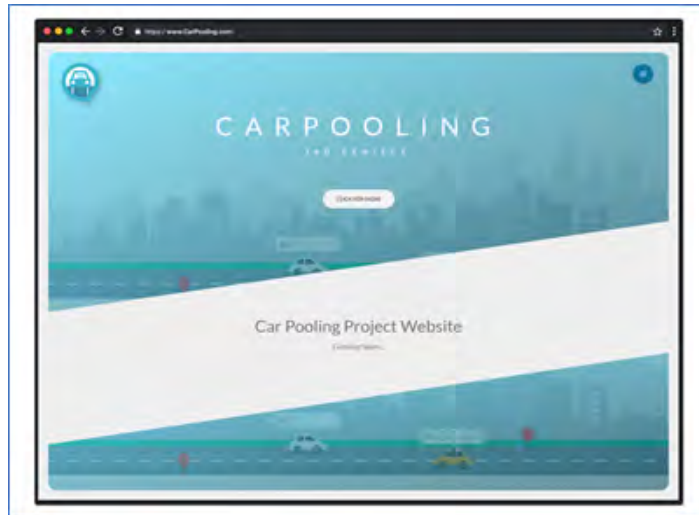
Ahmed Alqarroos

Abdulrahman Alrawdhan

Brief Description

Today's transportation apps are overcrowded and becoming more competitive every day. Which leads passengers and drivers to become more needing in effective cost of trip. One method to provide solution to this is trip sharing with utilizing the size of the trips, where drivers share their trips with passengers meeting their preferences. As well as, passengers request trips with detail that is suitable to both passengers and driver. Therefore, the project team intended to develop system that facilitate the drivers with the trips and encourage them to share trip with others who will enrol and benefit from it.

Also, passengers request trips in an organized manner. The system is equally beneficial for individuals, community as well as the existing transportation systems like Uber etc. Moreover, the project can be valued as a community services for those who are unable to pay transportation charges most of the time.





Pre-emptive Diagnosis of Atherosclerosis, Hypertension, Hepatocellular Carcinoma and Hepatitis C Diseases Using Computational Intelligence Techniques: An Early Warning System for Proactive Medicine

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Brief Description

The aim of the project is to implement an intelligent warning system for proactive medicine. The system is based on the research project: “Pre-emptive Diagnosis of Chronic Diseases (PDCD) Using Computational Intelligence Techniques”. Substantially, the system is meant to deploy the proper machine learning techniques for enabling people to apply for pre-emptive diagnosis.





Haqibty store (HS), online delivery service for stationeries and bookstores.

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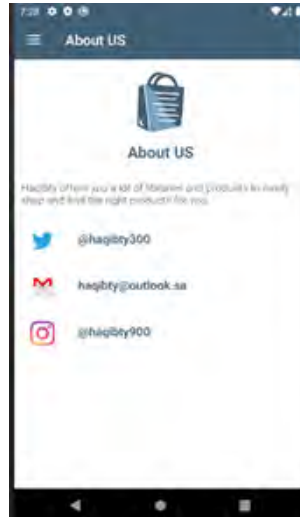
Mohammad Yassin

Abdulaziz Alsaif

Brief Description

Stationeries and bookstores are crucial to society. They offer school and office products which helps most people. These products include notebooks, books, pens, etc. there are many different stationeries and bookstores spread around Saudi Arabia that range from big to small stores. However, in the beginning of every school year, most of the stationeries and bookstores get very crowded because of the ever-growing need of school supplies. To rectify this problem, some well-known bookstores have an online shopping service that lets customers buy and receive products at the comfort of their home.

While these bookstores include online services specifically for their respective stores, our online application will centralize many stationeries and bookstores to offer diverse products to customers.



CYS





CYBER SECURITY PROJECTS



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Faisal Muhammad Alhujairy

Muslim AL-matter

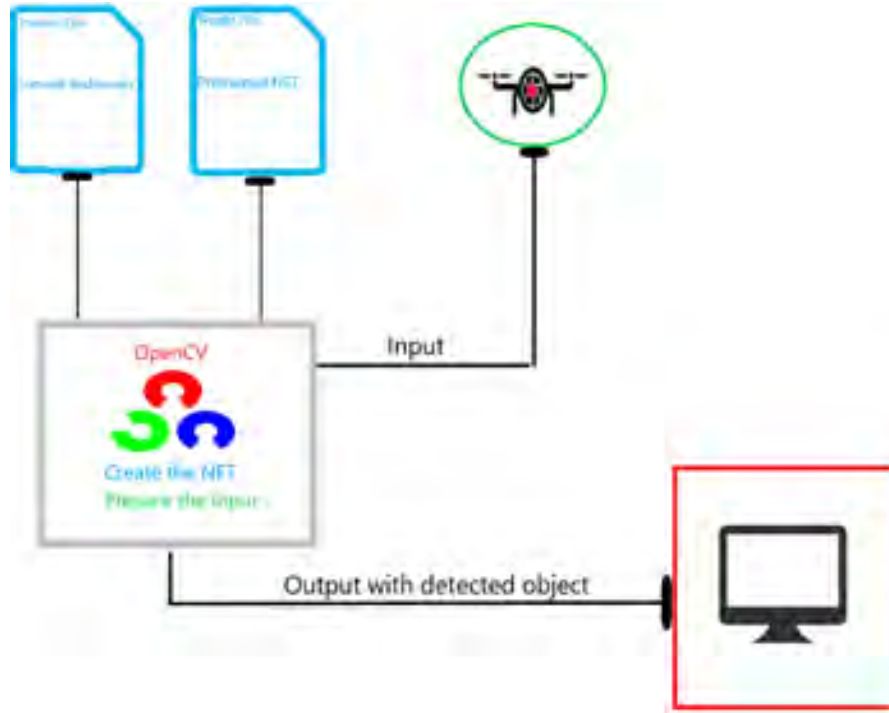
Fadhel Hussain Al-Ibrahim

Brief Description

Eayan(ع) system use the drone to facilitate monitoring and speed up the emergency response process.

The idea in a nutshell is that a person drives the drone at certain time periods and the drone send a live video to desktop application. this application, will direct the video into smart algorithm that works to identify and track objects and the most important objects human beings, animals and vehicles, and if there is anything suspicious on the calculated area of the surveyed For example, in a region where I do not want any human beings, so if the application identifies a human, it will send a notification to a competent authorities, and a notification will be shown to the person who is watching the video.

For example, in a region where I do not want any human beings, so if the application identifies a human, it will send a notification to a competent authorities, and a notification will be shown to the person who is watching the video.





Listen and Analyse



ML Based Undetectable Side-Channel Attack Utilizing Smartphones (MLSS)

Supervisors

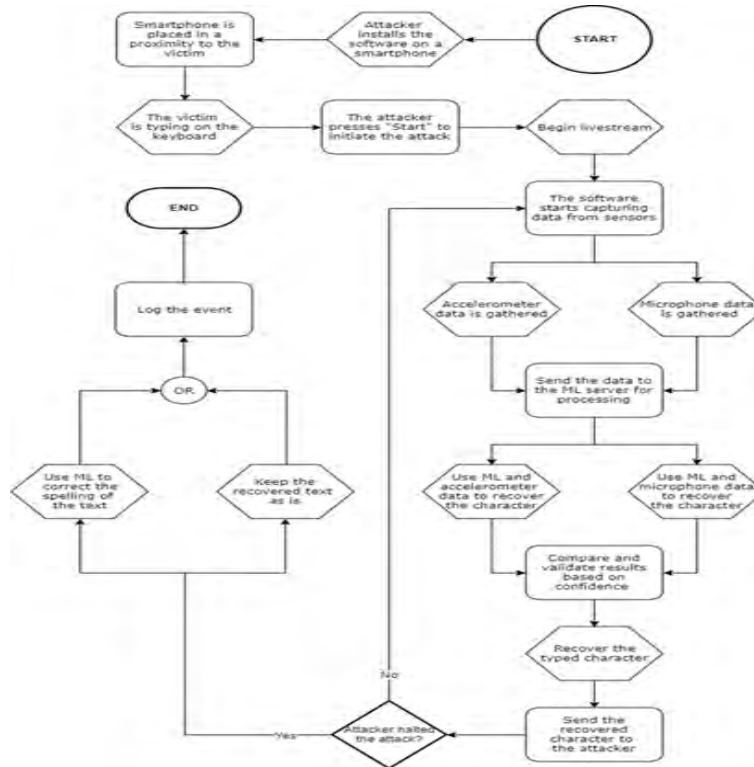
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Hassan AlDarweesh.

Brief Description

MLSS is an application that listens to the sound of keyboard strokes, and predicts which key was pressed. It utilizes smartphones and machine learning to perform the attack.



Lightweight Intrusion Detection System

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Brief Description

Lightweight host-based intrusion detection system that detects abnormality from the user's behavior.





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Brief Description

ZeVigilante, is inspired by the two phrases “Zero-Day” and “Vigilante” to imply a tool that has the potentiality of attentively detect advancing and outsmarting malicious software by building ZeVigilante to keep an observant eye on the mysterious and most deceptive malware ZeVigilante, a painstaking tool aimed . at detecting the “unknown”. It provides the users and experts with an attentive detection by advancing and outsmarting malware from the lens of watchfulness. With intelligent processing and precise extraction algorithms, this tool will work on investigating executable and library files of Windows OS to conclude whether it is a malware or not.







Detecting DDoS Attack in IoT Environment Using Machine Learning

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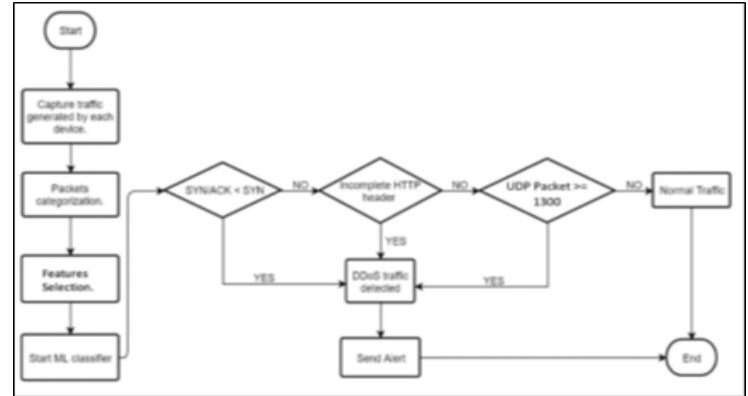
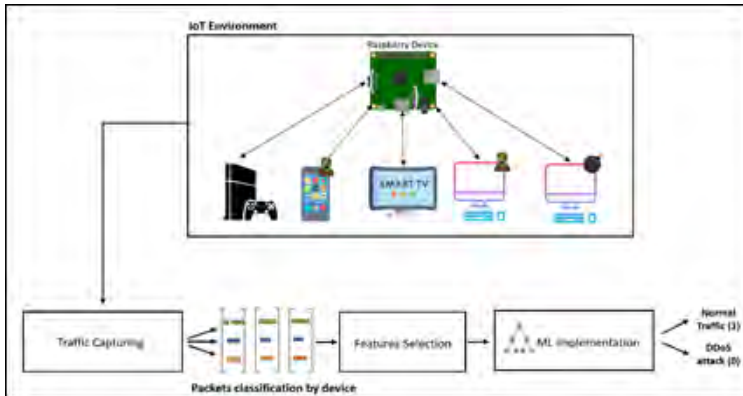
Rayhana Ali Al Shali

Reem Adel Alabdulaali

Brief Description

The main purpose of this project is to protect the IoT network that will be significantly used in the next years. The idea of this project is that utilized one of the applications of artificial intelligence which is Machine Learning (ML), in the detection of the DDoS attacks in the IoT environment. This ML has been trained on a dataset that has different types of DDoS attacks.

After that, the trained ML implemented in the IoT environment to validate and test the ability of the ML in detecting the DDoS attack targeting the IoT network. The implementation of this model consists of phases. The first phase is the IoT environment preparation phase. The second phase is the preparation of the training dataset by pre-processing it. The third phase is training the ML on the training dataset. The fourth phase is launching a DDoS in a real IoT environment and capturing the traffic. The fifth phase is the preparation of the testing dataset. And the last phase is the test phase to test the ability of the trained ML to detect the DDoS attack.





Two-Factor Authentication System Using Chess Mechanism

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Alahmadi

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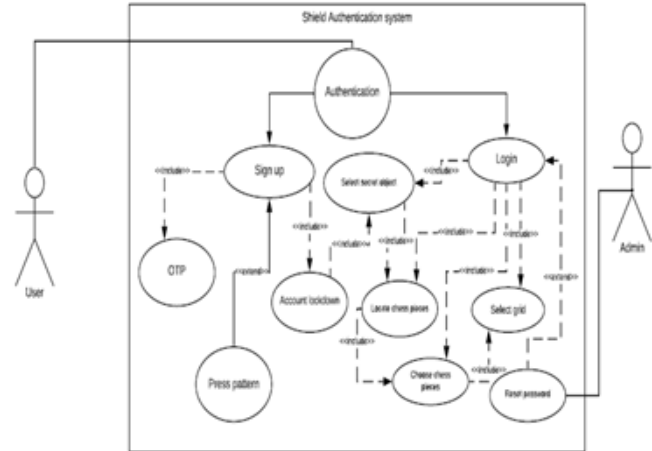
Thikra Safar Dhafeer

Brief Description

The proposed chess-based authentication mechanism provides an easy to remember and changeable pattern. It relies on the rules of chess, where the user can design their desired pattern by setting the following four: the desired size of their grid, the type and number of chess pieces, a numerical order assigned to each piece, and the location of each piece on the grid. To access the system, the user will see the pieces chosen as dots, then select the boxes on the grid based on their chosen chess pieces. Lastly, adding a one-time password OTP adds an extra layer of security.



Project Flowchart



Use Case Diagram



Quantum honeypot

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Layla Abd Rab Alrasool Alabbad

Brief Description

Our project is about quantum honeypot that use honeypot in quantum machine. The honeypot is essential tool for large enterprises and companies to identify, defend attacks and protect unauthorized access to information system. But some experienced hackers can detect the honeypot. After many searches about the concept of quantum and the differences between the quantum and traditional computer to learn the strong points of quantum. we decide to combine the two fields to increase the efficiency of the honeypot in the companies and also the efficiency of the quantum because is still not available in the market and the companies still don't use it.

Quantum computers and quantum bits (qubits) exhibit behaviours that cannot be replicated by classical computers. In particular, the state of a qubit changes when measured, aka read, in the wrong basis. This feature is exploited in this study to capture the behaviour of a hacker when accessing a quantum honeypot. In classical honeypots, actions such as opening a file or writing into a file, or database can be evidenced. With quantum features, additionally, the simple reading .of the content of any storage medium can be evidenced.

```

QUANTUM
SERVER

Pick one of the three files to read: (1-coronavirus 2-2030 Vision 3-SOCIAL RES
PONSIBILITY)
1
please enter reading mask
020000020000200002220020000000020000002000202000020022020222222022020200
20202000000020000000
The coronavirus is the virus responsible for causing what is known as the Middle
East Respiratory Syndrome. This virus causes severe viral infections with high
mortality rates. The infection spreads to humans through direct or indirect cont
act with infected camels, especially when visiting farms, markets or barns where
the virus has spread. For this reason, it is important to maintain personal hyg
iene

1
Code in File: 0200000200002000022200200000000200000020002020000020022020220022
22220220200020202000000020000000
Server Code: 001011010101101100010010110011010110010010011111010100110101100
1100010110001011010101011
percentage of match = 65.0%
percentage of mismatch = 35.0%
result after change 0100110100011100011101000001001100011001001000000001001001
10001100110010011100100000000100000001001

```

Java Experiments (Hidden Sentinel):



Quantum Experiments (Hidden Sentinel):

Phishing Emails Detection using Machine Learning



PhishX

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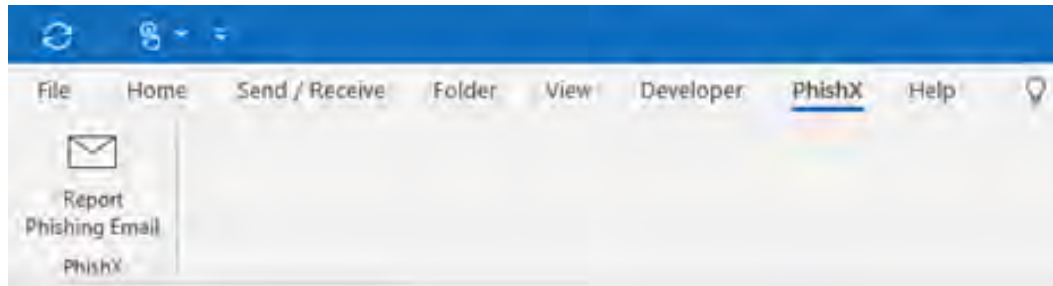
Rand M. AlKulaibi

Nashwah H. AlMassloom

Brief Description

Phishing attacks are increasing, and the demand for cyber defences against phishing is rising while most of the available solutions are static signature based.

The proposed project is to develop a phishing email detection platform based on machine learning. The platform should be able to learn and evolve by examining emails' metadata and contents in order to increase its success rate against novel situations over time.



Homoglyph Detection



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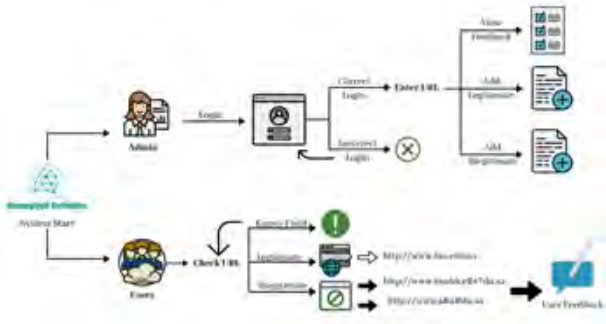
Shooq Salah Alothman

Waad Mobarak Aldosari

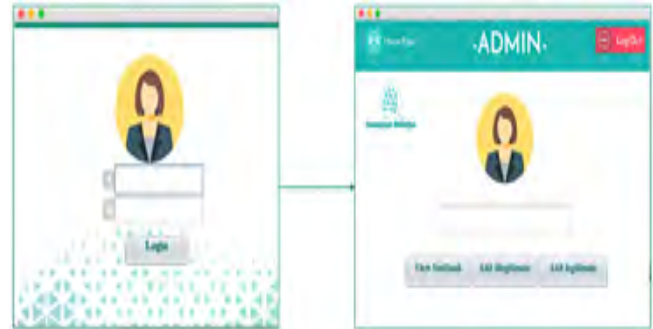
Brief Description

Homoglyph detection project allows users to check the legitimacy of the URL before forwarding them to the webpage, to avoid being a victim of both phishing and homoglyph attack.





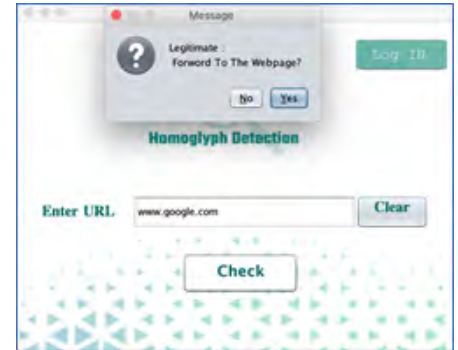
System Overflow.



Admin Interface



If URL Illegetimate

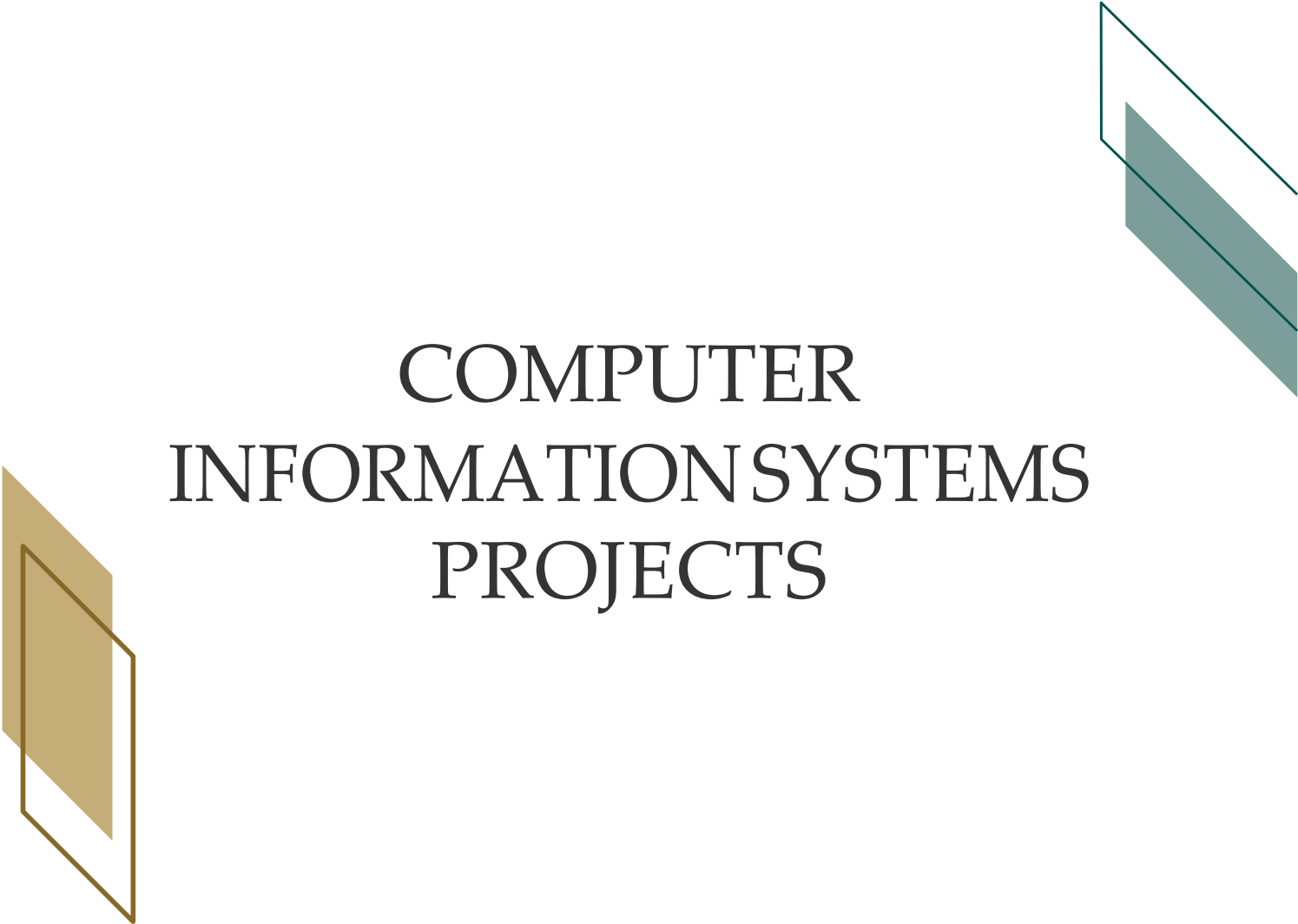


If URL legitimate



CIS





COMPUTER INFORMATION SYSTEMS PROJECTS



Para Assist

Paramedic Assistant System Using Patients' Biometrics

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Ghada Aldamegh

Dania Alkhulaifi

Mai Almubayydh

Achievements:



Brief Description

It automates the retrieval of patient's history has emerged. In some cases, knowledge of patient's clinical history can support life-saving decisions. The main target of Para-assist is to help paramedics to identify and view patient's history in reduced time. Combining human factors with modern technology is becoming prevalent, especially in life-critical systems.

Para-assist aims at providing faster and more accurate searching techniques to gain access to the patient's records. First, image processing is used to search for a patient by scanning their face, this feature is enabled through python's image processing libraries such as CV²; Para-Assist is an Android-based app that will be developed using Android Studio environment which is powered by JDK drive.

The image taken by the paramedic on accident-site will be compared to the hospital records which facilitates the retrieval of information. Furthermore, speech recognition will be included to ease incident reporting process as paramedics' verbal diagnosis will be converted into an incident report.

Para-assist is portable and will be provided in the ambulances so that paramedics can access it once in need. The device is considering privacy and security issues which does not allow access to the data unless for paramedics that are currently working on a working shift. Also, the device supports face-recognition access for paramedics for faster and more reliable login.



Paramedic's Face ID



Voice Recognition Interface



Current Location Interface



SmartFair Guide



Achievements:



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Shaikah Alalyani

Shaikha Alfaris

Brief Description

Smart Fair Guide is a responsive and intelligent web-based site and application system, it aims to store the value of reading culture by providing distinguishable and desired functionalities that add to the ideal user's experience and can be available for all book fair events in Saudi Arabia. The main objective of the system is to ease the management process of Saudi book fair events by implementing high-quality functions. The system will serve the "Admin" who will manage the event and provide the authorization of users' participation as well as gaining higher privileges in the system. It will also serve the "Publishers", "Authors" and "Volunteers" who will participate in the event, as well as the "Visitor" who need to be assisted and .guided before and during the event.



Book fair → Sign In

BRIAN HOUSTON LIVE LOVE LEA

THE LAST ARROW McMA

W. S. G. O.

THERE IS MORE BRIAN HO

The SmartFair Guide

Reading is a crucial piece of our lives, and it's how we acquire new knowledge, discover ourselves and develop our skills. A book fair is an event that provides visitors with the opportunity to further their knowledge, to obtain rare books and to meet their favorite authors. In the event, the staff aims to achieve visitor's satisfaction, and to increase the



R Road Flooding Response Management System

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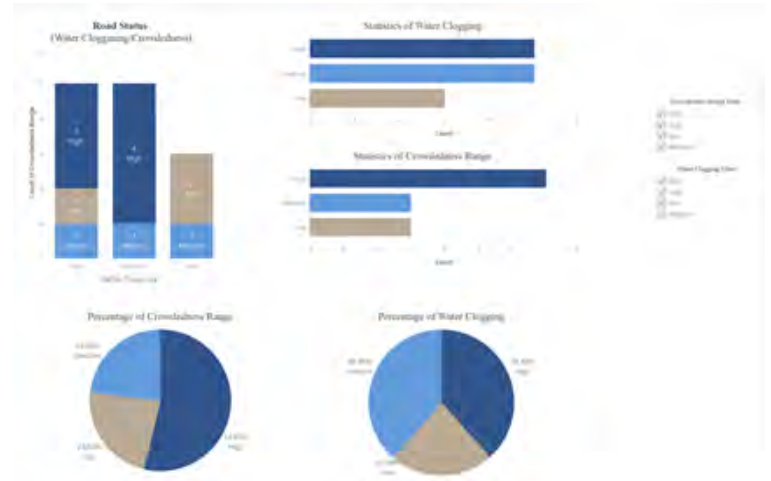
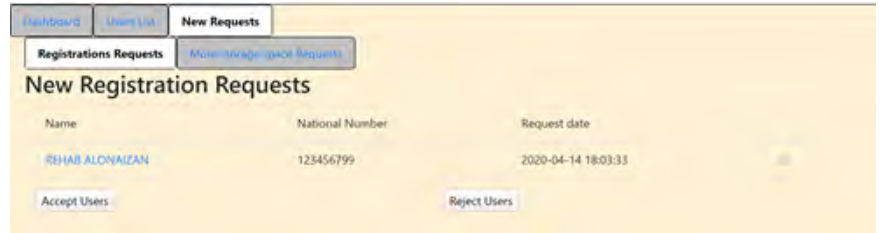
Dalal Ali Albuhairi

Dalal Mansour Alyami

Raha Saud Alkaabour

Brief Description

Our project defines an Analytic Hierarchy Process (AHP) based solution to facilitate response to road flooding in Safa district, Dammam. The roads are assigned with a priority to each road section which would allow the flood response teams to improve the efficiency of flood responses. This project introduces the proposed web-based road flooding management system which utilizes a variety of different information to provide flood response teams with clear information on the real-time status of roads.





I'm Here

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Nada Nafeth Al-Ajmi

Brief Description

I'm Here is an attendance system that will facilitate taking the student attendance either using the Face Recognition technique or by the Radio-Frequency Identification (RFID) chip that exists in the student ID card. The system will detect and mark the students who are presented in a class by automatically scanning either their faces or their ID cards (using this method for special cases for students with an excuse). The motivation behind building the I'm Here System is to save valuable time and overcome several issues that both instructors and students might face when taking the attendance manually.

Therefore, I'm Here System will mitigate the time-wasting issue, prevent fake attendance taking. The I'm Here system is expected to help in covering the course curriculum in the best manner and within the expected time. With I'm Here System, the effectiveness of attendance taking methodology will be greatly improved and the satisfaction for both instructor and student will be gained.



(مسار) Masar

Supervisors

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Israa Baz

Maha Alharbi

Sara Almrihil

Waad Asiri

Achievements:

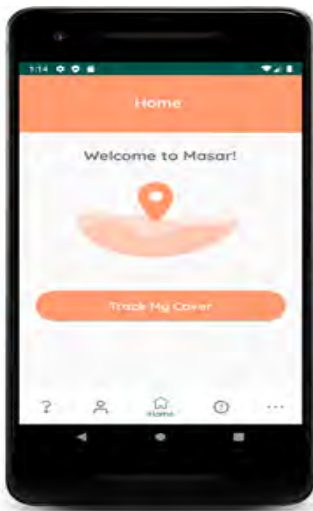


ملتقى ومعرض ريادة الأعمال
Entrepreneurship Forum & Exhibition

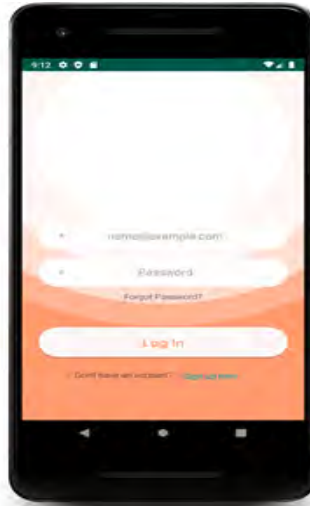
STARTUP
Saudi Arabia
الملتقى السعودي للشركات الناشئة

Brief Description

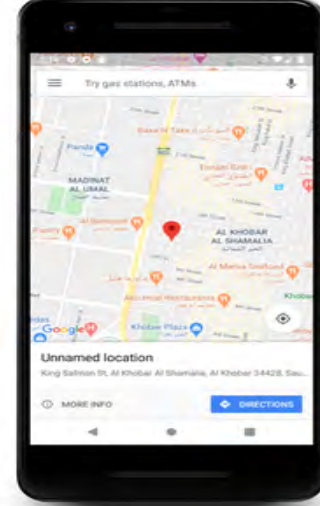
Masar aims mainly to solve the problem of cards loss. Masar is a tracking cover for cards that is connected to a mobile application. The mobile application includes a range of services that will ease the use for the customers such as, a tracker to track the lost ID cards or credit cards. The hardware is a cover with a tracking chip and RFID protection. A GPS unit is embedded within the cover. If the cover is lost, Masar Map UI will communicate with the tracking circuit to get the coordinates of it and display it for the user.



Home Page



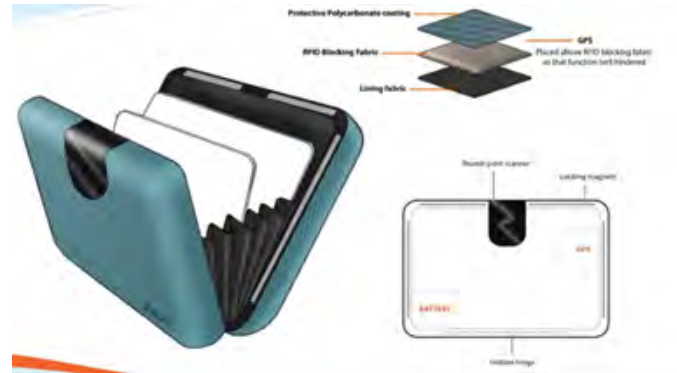
Login Page



Map



Hardware



Design





FURSATAK

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Ghadeer Alduhailib

Majedah Aljishi

Waad Alghamdi

Brief Description

Fursatak is a website that will give unemployed workers the opportunity to work in multiple companies to build experience and earn some money, on other hand the companies can reach out to job candidates and to save money.





Mothakrti Mobile Application



Supervisors

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Client:Seham Alghamdi

Special Education Instructor

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Brief Description

Mothakrti Mobile Application aims to enhance the communication between instructors and parents of special needs students in public schools at Saudi Arabia. The current situation is the instructors suffer a lot from the poor communication with parents of students with special need as well as students cannot deliver what is required from them to their parents and this weakens the educational process. Therefore, Mothakrti Mobile Application System seeks to solve these issues by providing full information related to the student's health status and having private online chatting between the instructor and the parent. In addition to, instructor can deal with emergencies through the application by directly call one of the parents.

Group Members

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Zainab Adel Almutawah

Lama Khaled Alsalem

Nouf ali Albagshi



iConnect - CCSIT Community Platform

Supervisors

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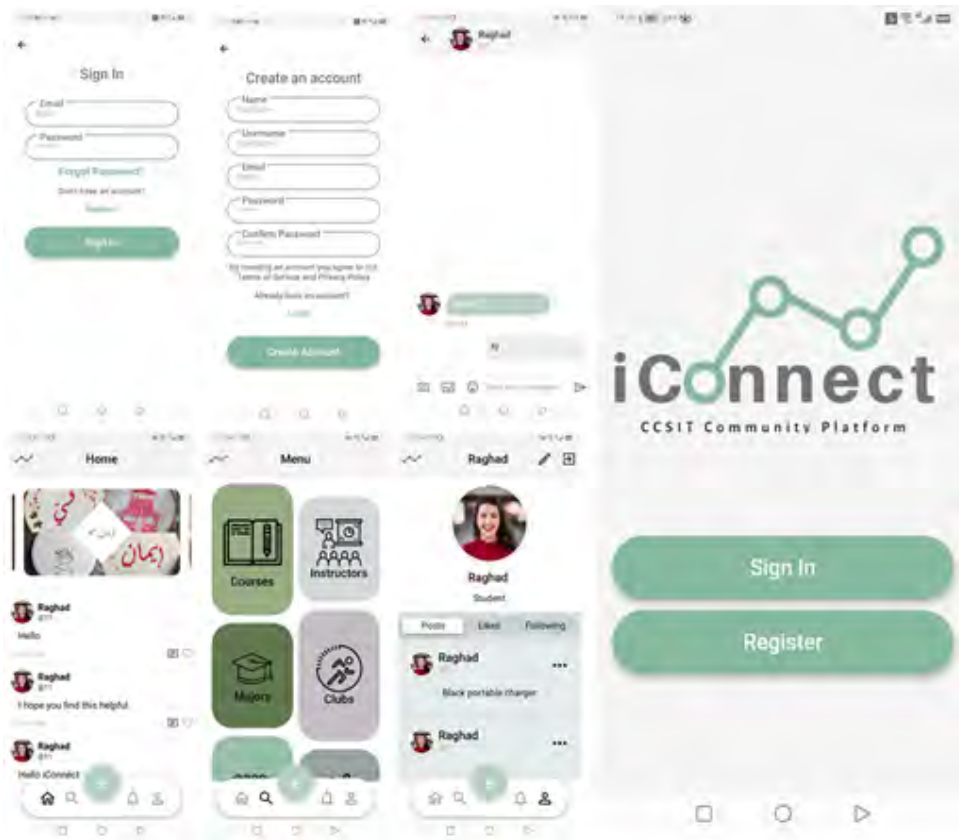
Group Members

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 Hawra Azmi Alradwan
 Alanoud Musleh Aldossary
 Bashayer Ahmed Albluwi
 Lama Theyab Alshammari

Brief Description

Students at Imam Abdulrahman Bin Faisal University are no different” from other communities. However, their community lacks a platform where students of all levels and majors can easily communicate, share knowledge and experience, and increase their productivity by saving time and cost. Hence, there is a need to fill the gap with a social networking application: iConnect this CCSIT Community Platform aims to be a comprehensive platform that students can depend on to fulfil all their needs and answer all their inquiries. In addition, the platform will support students who are also business owners by promoting their business to fellow users to increase awareness of student entrepreneurship.







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Authority

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Alaa Alsulami

Ameera Alotaibi

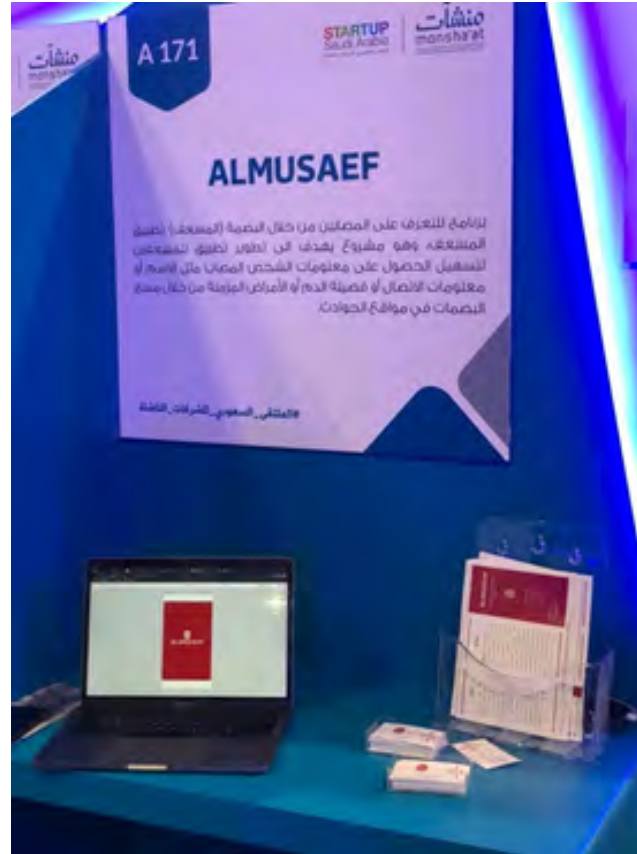
Albandari Alharbi

Fatima Alameri

Brief Description

Paramedics face difficulty in identifying injured people in some emergency cases. Some accidents lead the injured people to lose their personal stuff such as their mobile phone or the wallet which makes it hard for paramedics to identify them and reach out to their families. Also, the paramedics could face some issues in determine if the injured person has any specific disease may affect negatively in the injured person treatment process. ALMUSAEF provide an optimum solution to help the paramedics easily identify the patients and show their personal and medical information using their fingerprints. Furthermore, it helps the paramedics take the appropriate action after viewing the patient's medical history.





Course Portfolio Management System

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Rabab Alsadah

Ethar Algadban

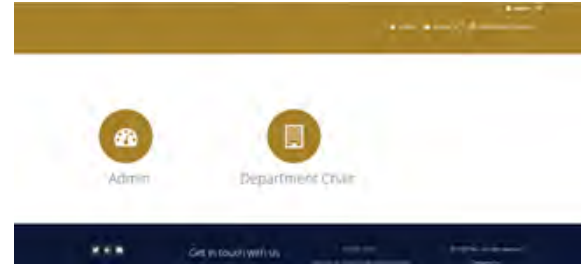
Layan Algarni

Brief Description

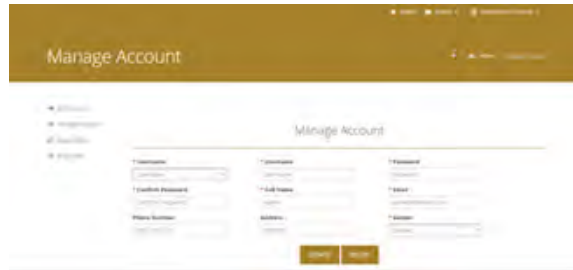
This system will enable the online submission of course portfolios at CCSIT. The system will implement business process management approach where different roles will have different privileges and system will manage the content submission , content review and content archiving.



Login interface



Admin homepage



Manage account interface



Web Based Management System for Student Academic Advising Unit at CCSIT



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CCSIT

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Lamees Nujaid AlNujaidi

Jannah Nabeel AlKhawaher

Wala Mohammed AlRmdhan

Brief Description

Proposed system is the automation of all the tasks of Student Academic Advising Unit, so that Unit can achieve its goal in an efficient and timely manner. Proposed System will be an interactive web-based system which will help the student to improve his academic level and helps the committee chair control over large data coming from faculty members.



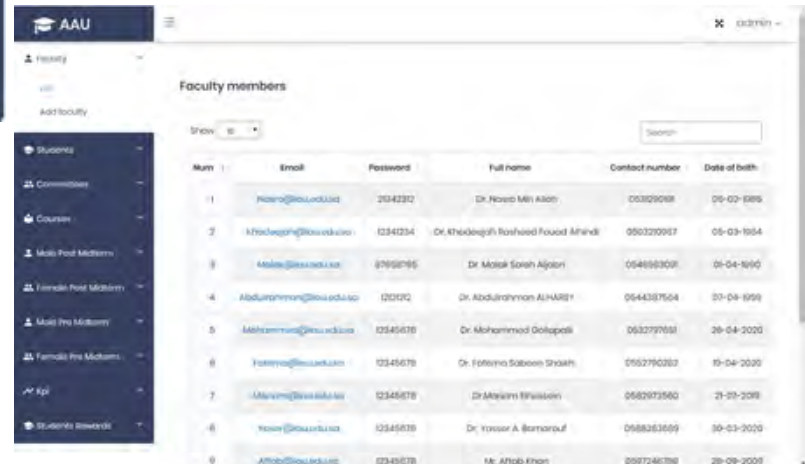



ACADEMIC ADVISING UNIT
 Email

 Password

[Forgot Password?](#)

Login Page



The screenshot shows the Admin Homepage of the Academic Advising Unit. The page features a dark blue sidebar with navigation options: Home, Faculty, Add faculty, Students, Committees, Courses, Male Post Masters, Female Post Masters, Male Pre Masters, Female Pre Masters, Epl, and Students Rewards. The main content area is titled "Faculty members" and includes a search bar and a table listing faculty details.

Num	Email	Password	Full name	Contact number	Date of birth
1	Hamza@aauc.edu.eg	2042302	Dr. Hamza Mili Aboon	05309068	06-02-1986
2	Khadege@aauc.edu.eg	0240234	Dr. Khadegefa Rashwad Fouad Alhadi	050320987	05-03-1964
3	Malek@aauc.edu.eg	07950795	Dr. Malek Sarah Aljabri	054693001	01-04-1990
4	Abdulrahman@aauc.edu.eg	020102	Dr. Abdulrahman ALHARBI	0544387564	01-04-1959
5	Mohammed@aauc.edu.eg	02454038	Dr. Mohammed Golepali	0532770581	26-04-2020
6	Fotima@aauc.edu.eg	02454078	Dr. Fotima Saboon Shakh	0502790282	19-04-2020
7	Marwan@aauc.edu.eg	02454078	Dr. Marwan Elwasel	0562973560	21-03-2019
8	Yasser@aauc.edu.eg	02454038	Dr. Yasser A. Barmarouf	0588363559	30-03-2020
9	Affab@aauc.edu.eg	02454078	Mr. Affab Khan	0087246788	28-09-2009

Admin Homepage



Lifesaver Application

Supervisors

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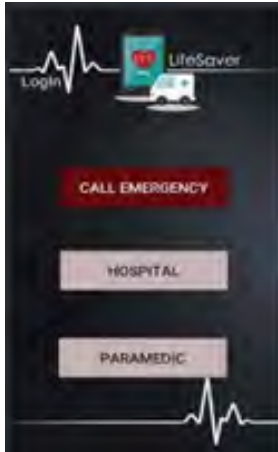
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Fatimah Mohammed Al-Marhoon
Fatimah Mujtaba Al-Marhoon
Sara Fouad Al-Junaibi

Brief Description

Lifesaver is a mobile application that enhance and optimize the process of requesting and tracking paramedics. A lot of situation does not require an ambulance with full equipment, taking this in consideration, the application will provide the user with form, and according to his answer, the hospital will decide if the cases need an ambulance or a paramedic. User also can request a paramedic, paramedic is an pharmacy or individual how have certificate in first aid.

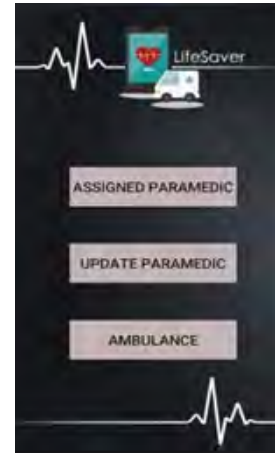




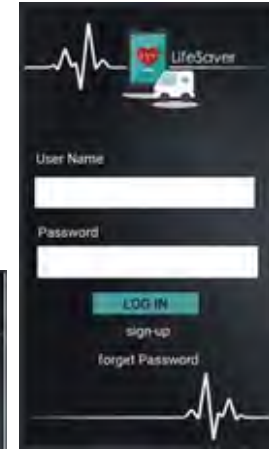
Main Page



Hospital Profile



Hospital Home Page



Login Page



ATAA System



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Rahaf Alshehri

Abrar Alismail

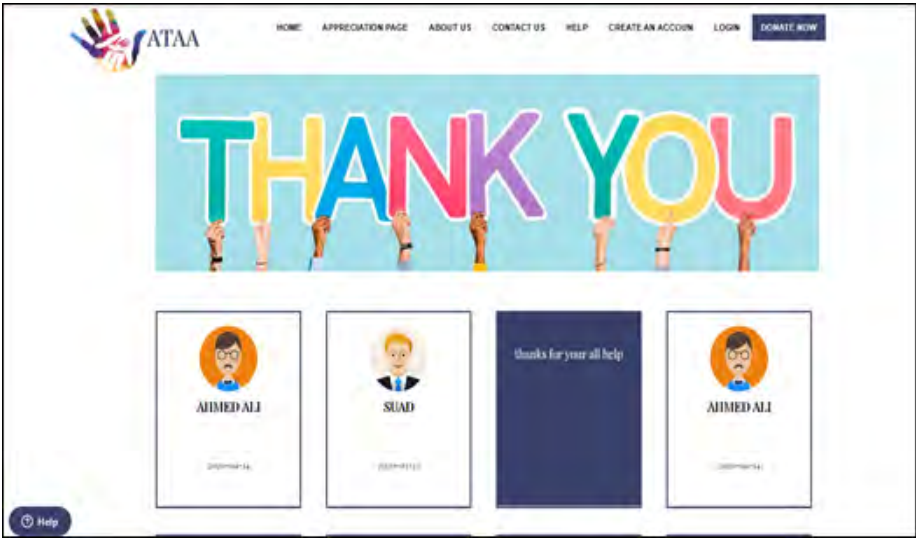
Seba Alowayid

Walaa Alzuhair

Brief Description

ATAA system is a web-based system aims to help the needy families by providing them with donations that they need from the donors and to be an effective communication channel between the needy persons and the donors by providing direct communication between them.





Voice Mail Application



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Yasmine Khaled Alshammari

Rahma Khalil Alnabbat

Haton Naif Alotaibi

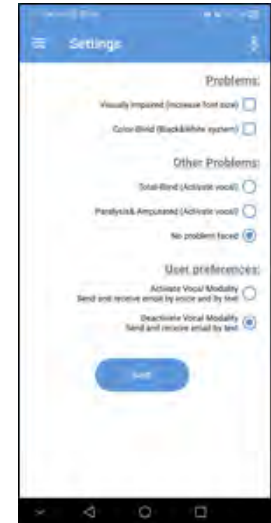
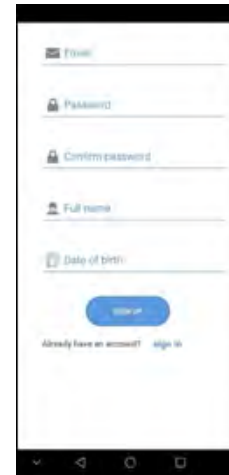
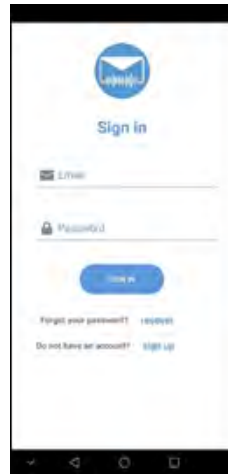
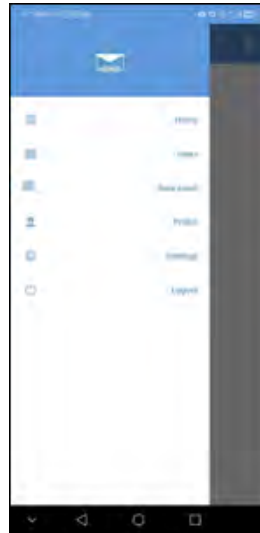
Achievements:

STARTUP
Saudi Arabia
الملتقى السعودي للشركات الناشئة

Brief Description

Context aware Multimodal Voice based Emailing Box is aimed to support people with disability (Voice Mail Application) and to make the use of email more popular. The Voice Mail Application is to supports two modalities vocal and visual, the vocal modality will help people with disability, such as [blind, visually impaired, amputees, the elderly, and also paralyzed however normal people that may use this email with hand free feature.

Voice Mail Application helps many users, including normal people and especially disabled people to easily send and receive e-mails via voice and by write the email in a normal written way. It will help people with disability who suffer problem of sending and receiving e-mails. The user can write emails by voice and read emails by voice by converting speech to text and text to speech.



An Emergency Room Assistant Application



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Ghada Alromaizan

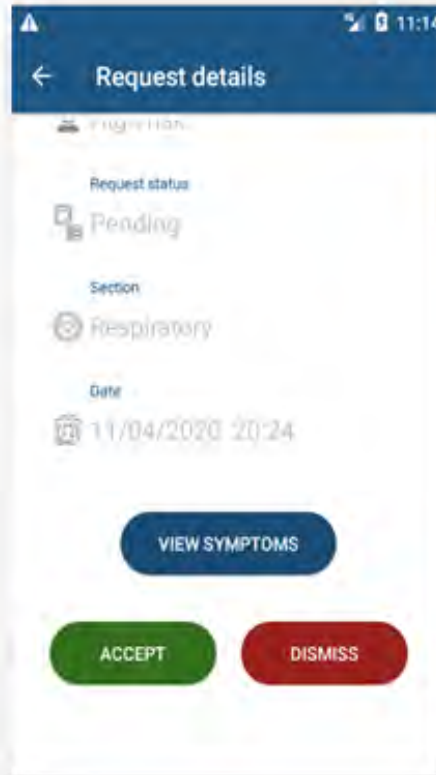
Reem Alharbi

May Almazrou

Sara Alkhalifah

Brief Description

Our project's main aim to ease the struggles of many parents when they have a sick child that needs the Emergency Room (ER). The way the application is designed is to make the parents select their child's main complaint and complete a quick score to see if the child's score is very high i.e. needing extremely urgent medical evaluation or low score needing less serious medical evaluation, once this is completed, it is received by the medical staff in the ER and preparations for patient's arrival is made. The second feature of the application is to show the approximate current waiting time to be seen in the King Fahad University Emergency Room (KFUER) depending on Male, Female, Obstetric or Pediatrics.



Fake Sick Leave Detector Tool



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Hospital

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Duaa Baqer Al-Abdullah

Shaikha Najeeb Al-Saleh

Shahad Al-Draiwiesh

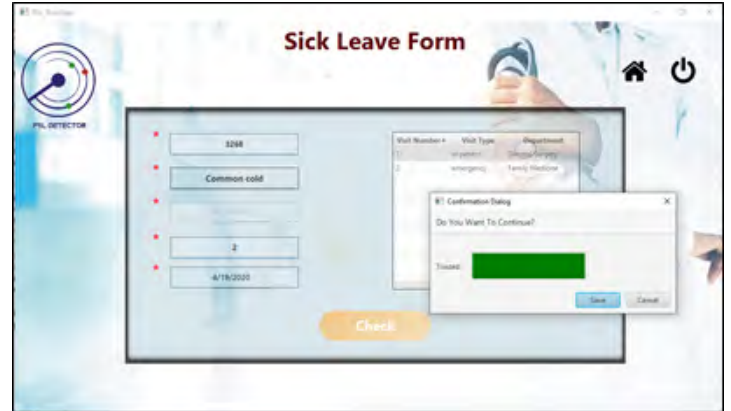
Farah Ali Al-Qahtani

Achievements:

STARTUP
Saudi Arabia
الملتقى السعودي للشركات الناشئة

Brief Description

Fake sick leaves detector is a tool that will be applied in King Fahad University Hospital, it allows the doctors to fill the sick leaves records in the hospital and based on some characteristics it will identify if there is a level of fakeness on it or not. This tool is aiming to help the hospital in the long term by minimizing and eventually prevent the doctors from providing fake sick leaves.



Wellness Application

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Fedaa Al Jumaah
Zahra Al Janaby
Jenan Alawami
Maryam Kalalah

Brief Description

Over recent years, fitness and health applications usage grew at a substantial rate. This is the dawn of a new period, a period where people look more to their mobiles to check on their health. These apps provide a great avenue for those who are interested in tracking their activities, tracking caloric intake, fitness advice and nutrition plans. There are many successful fitness apps on the market, but all these apps although state of the art, have one thing in common, they have missing features that may distract the user. We planned to develop a mobile health and fitness app called Wellness that allows users to track their activities, help them to lose weight, or maintain the weight and provide nutrition information about their food to help users achieve their health goals.





ive
wellness

Email

Password

SIGN IN

Do not have an account? [Sign up](#)

[Forgot your password?](#)

Gender Male Female

Body information:

Height

Weight

Goal weight


What is your activity level?

Not very active
Spend your day sitting

Lightly active
Spend a part of your day on walking

Active

← Profile ⌵

 fedaa
0.0 kg lost

Height 160.0 cm

Gender Female

Date of birth 📅

Email fedaa.j@gmail.com

Starting weight 56.0 kg


Current weight 56.0 kg


Goal weight 50.0 kg


Weekly goal 0.5 kg/week ⌵


Activity level Very active ⌵


fedaa
0.0 kg lost


 Weight log

 Activity

 Meals


 Water


 Exercise

 Sleep

Calories

1344.0 Goal - 0.0 Food + 0.0 Exercise = 1344.0 Remaining

 Home

 Profile



Thakirni application: An Assistive Application for Alzheimer Patients

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Maisa AlYemni

Mada AlAhmadi

Madhawi AlZamil

Buthaina AlQahtani

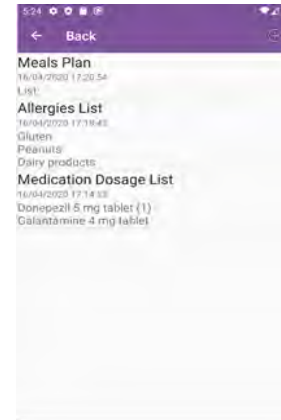
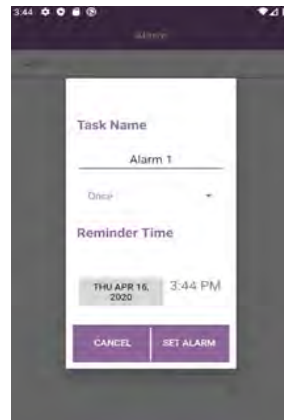
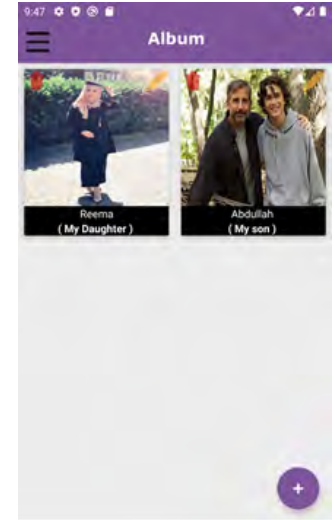
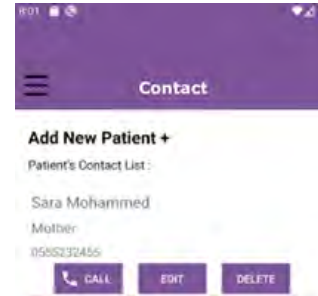
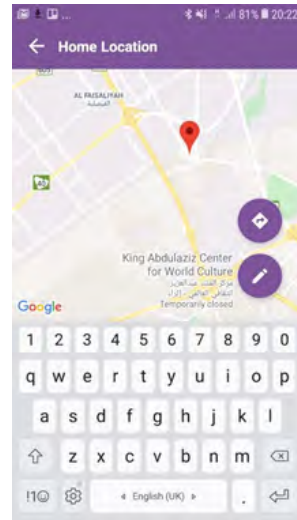
Brief Description

Thakirni is proposed to assist Alzheimer patients in performing everyday activities by reminding them of their important appointments such as medication and sleeping time. In addition, the application supports the integration of a wearable tracking watch with our application to track the patient's location which will notify their caregiver in cases of emergencies, such as getting lost or exceeding a certain distance away from home. Moreover, the application includes a feature that will dedicate a segment of each loved one that includes their photos, videos and descriptions, which will help spark recognition in the patient of their loved ones and allow them to become more engaged with society. This application aims to help patients facilitate their way of living by making them less dependent on their caregivers and to reduce the burden of the caregivers as well.

Achievements:

STARTUP
Saudi Arabia

الملتقى السعودي للشركات الناشئة





IAU Clubszone

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Fatima Alnasser
Sukainah Almubarak
Hawra Al-Mahfoud

Brief Description

IAU Clubszone is an online platform (website) for student's clubs.





WELCOME TO

IAU Clubszone

This website is made to gather the student clubs of Irbid
Abdulrahman bin Faisal university in Al-Rakeh district in Al-
Dammam on one platform.



CLUBSZONE
IAU



Network Limiter

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Mohammed Salem Ben Gumaan

Mohsen Qasim Ghazwani

Hamad Faris Al sagour

Mohammed Ahmed Abdulkarim

Brief Description

This system aims to improve family life style/behaviour by limiting and monitoring the network usage in the home settings. The system will provide a monitoring and controlling mechanism using Raspberry pi to control and analyze the network traffic.

M

obile Application for Chronic Kidney Disease Patients



ICARE

Supervisors

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Mohammed Abdulhadi AL Qahtani

Saif Nasser AlNuaimi

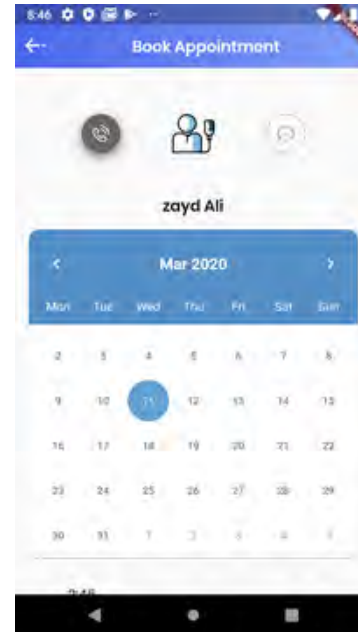
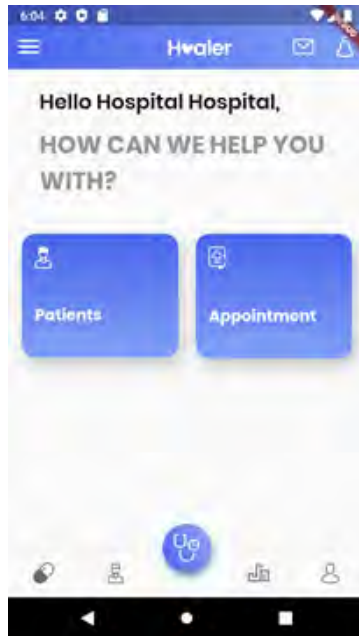
Zaid Ali AlSaiari

Turki Saad Al-Enzi

Brief Description

As the health care concerns many people, this should be a reminder to the needs of the community. Despite the great treatment facilities and technologies nowadays, there are still some chronic kidney disease patients who aren't monitored. Since they don't visit the hospital daily because they have specific appointments. Also, the fluid level of these patients is really important to check. As a result, ICARE has been developed to solve these both issues. ICARE is a system that overcomes the needs of the chronic kidney disease patients along with the hospital, which is responsible of these patients, so they are going to be connected to solve both issues at the same time.

There is a strong belief that this ICARE is going to help many chronic kidney disease patients and give the chance for hospitals to monitor them remotely.



Tanmiah Website



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 Committee (Al - Rawdah)

Group Members

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 Hassan Taher Al-Owa
 Amjad Salman Abualsaud
 Ali Abdulrahman Al-Bar
 Mustafa Yousef Al-Majed
 Abdulhadi Al-Nassif

Brief Description

Dammam Tanmiah committee is civil service organization that serves the citizens on Dammam- Hai Alrawda, Saudi Arabia. The committee provide many services to the citizens and for the students especially as they have clubs that provide them with educational, cultural, and sports programs and activities. Also, the committee takes organizing volunteer works over many areas in Dammam on themselves. This project object is to computerize the processes of students' registration and records management for them as well as the volunteers.



0138466655 info@tamimah.org.sa

HOME CLUBS- ABOUT US **VOLUNTEER**

APPROVE USERS MANAGE USERS MANAGE PERMISSIONS

MANAGE CLUBS MANAGE POSTS MANAGE ACTIVITY SCHEDULES

Manage Users

STUDENT VOLUNTEER EMPLOYEE SUPERVISOR ADMIN

ADD NEW USER All Student

#	First Name	Last Name	Operations
1	Ahmed	Abdennasser	<input type="button" value="VIEW"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
2	MUJIBH	MUJIBH	<input type="button" value="VIEW"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
3	EMAN	Abdennasser	<input type="button" value="VIEW"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
4	ABDEL	ABDEL	<input type="button" value="VIEW"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
5	AMR	AbuAbbas	<input type="button" value="VIEW"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
6	Saad	Abbas	<input type="button" value="VIEW"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>
7	AMR	AMR	<input type="button" value="VIEW"/> <input type="button" value="EDIT"/> <input type="button" value="DELETE"/>



Location-Based Notification

Supervisors

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Group Members

Mohammed Khalifa ALarmani

Email: 2160006733@iau.edu.sa

Fawaz Abdulrahman Al-Ghamdi

Emad Muaid Al-Rizqi

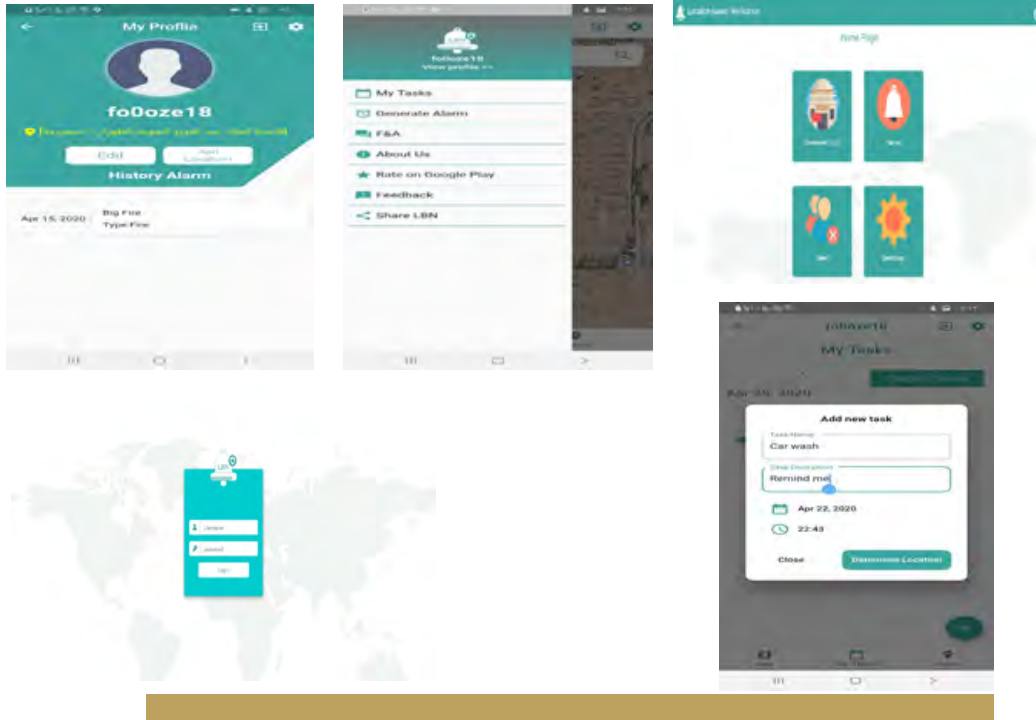
Talal Abdelhadi Al-Qahtani

Nawaf Ali Al-Qarni

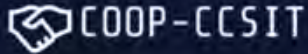
Brief Description

Mobile applications introduce a lot of services that make our life easy and comfortable. One of the problems people may encounter when visiting a place is doing a task or some tasks but forgetting some others that can be done at the same place or closer locations. This issue cost a lot of time and cost as people need to go back another time to do the rest of their tasks at or around the place they already left. In this project, we intend to develop a mobile application (app) that could notify the users about the tasks and appointments scheduled based on locations.

Moreover, the app helps other communities and governments sectors to issue alarms and notifications based on locations so that the users can avoid any issues on the specified locations like avoiding traffic jam caused by an accident or flooding. The application also implements the voting algorithm to support alarms generated by other users. When scheduling multi tasks within closer locations, the apps will guide the user to cover all the closer locations by fining the best route to visit all the scheduled location-based tasks.



COOP-CCSIT



Supervisors

Mr. Saeed Hussein AlQahtani
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Client: COOP Committee

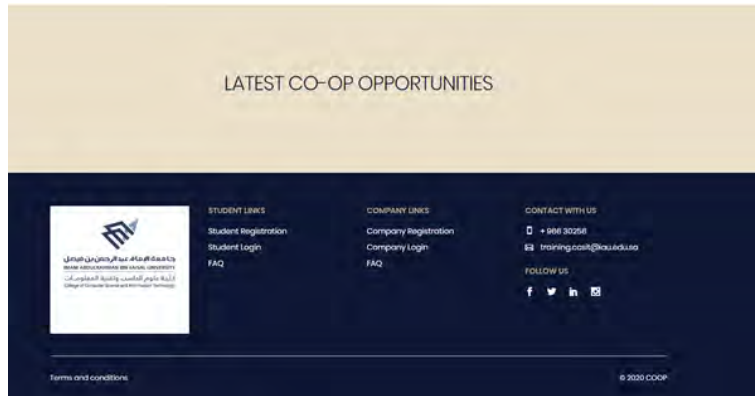
Group Members

Omar Abdulaziz Alomairi
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Mussab
Slomi Albargi
Ahmed Muneer Albraih
Mohammad Mubarak Alabdullatif
Yaseen Riyadh Alhawaj

Brief Description

COOP-CCSIT is a web application that specialized in a cooperative training program in the college of computer science and information technology in Imam Abdulrahman bin Faisal university that, helps to make contact with the coop committee, students, supervisors, and companies in an easy and simple way in one platform.







Supervisors

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Group Members

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Yazeed Alawam

Saleh Alali

Yousef Alabdulraheem

Talal Alyami

Brief Description

Web-based system to provide an interface for the faculty members to manage, coordinate, and maintain the information of public health college.



CUSTOMER RELATIONSHIP MANAGEMENT SYSTEM



Supervisors

Sghaier Chaabani

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Client: Association of Volunteer
Work in Dammam

Group Members

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Adi fuhad Albaqawi

Ali Mohammad Alabdulsalam

Saad Khaled Alaradi

Muath Zuhair Alzuhair

Brief Description

This project is about Customer Relationship Management System (CRMS) for the association of volunteer work in Dammam. We will build a dynamic website and mobile adaptation of this website which will give volunteers the ability to donate their time and resources to the organization. Also, to be handled by their staff. And users of the system can check for available volunteering opportunity in the future. And check the organization social media and news through integrating social network API and a chat feature for users to ask questions and interact with the organizations help staff An admin-controlled database will be implemented and. connected to the organization system to manage volunteer's data and activities they will participate in for future events.

Graduation Project Committee:

Dr. Abdulrahman Alharby

Dr. Mohammed Imran Ahmed

Dr. Rami Mohammed

Dr. Nesrine Mezhoudi

Dr. Maryam Temitayo Ahmed

Mr. Mohammed Salih Ahmed

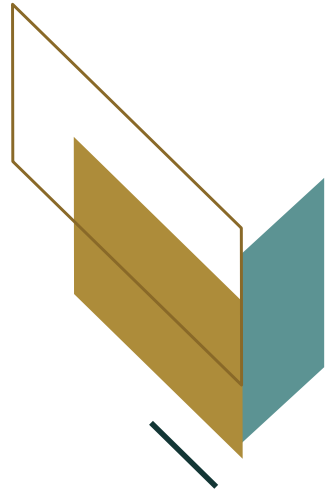
Mr. Saad Alharthi

Ms. Aisha Al-Tamimi

Designed By

Mr. Thamer Aljohani

Mr. Dhaifallah Almutairi



Vision

To be a leading computing college at national, regional, and global levels

Mission

Provide quality computing education, discovery, and professional services with community engagements

Values

Quality Education
Technology and System thinking
Research and Creative Work
Community Partnership
Commitment