API Design Document:

IAU Employees Statistics API

IAU Employee Statistics API – User Guide

Overview

The IAU Employee Statistics API provides aggregated data about employees at Imam Abdulrahman Bin Faisal University. It is designed for use in institutional dashboards, HR analytics, reporting, and system integrations. Instead of returning individual employee details, the API provides grouped statistics such as department/college, qualification, category, gender, and nationality, along with the number of employees in each group.

Base URL

https://bpm.iau.edu.sa/bpmapi/api

Endpoint

GET /employee

Description: Retrieves aggregated statistical information about employees.

Method: GET

Example Request URL: GET https://bpm.iau.edu.sa/bpmapi/api/employee

Response

Success Response (200 OK)

```
<EmployeesStatestics>
    <Department_College>College of Engineering</Department_College>
    <Education_Qualification>PhD</Education_Qualification>
    <Employee_Count>6</Employee_Count>
    <Employment_Category>Faculty</Employment_Category>
    <Gender>Male</Gender>
    <Nationality>Saudi Arabia</Nationality>
</EmployeesStatestics>
```

Error Responses

400 Bad Request
{ "error": "Invalid query parameters" }

404 Not Found
{ "error": "Employee statistics not found" }

500 Internal Server Error

{ "error": "An unexpected error occurred" }

Data Model

Field	Type	Description
Department_College	string	Department or college where employees work.
Education_Qualification	string	Academic qualification (e.g., Bachelor, Master, PhD).
Employee_Count	integer	Total number of employees in this group.
Employment_Category	string	Type of employment (e.g., Faculty, Staff, Contractual).
Gender	string	Gender of employees (Male/Female).
Nationality	string	Nationality of employees (e.g., Saudi Arabia).

Security

- Use HTTPS for all requests.
- If required, authenticate using an API key or Bearer token.
- Implement access control, logging, and monitoring for auditing purposes.

Usage Example

```
curl -X GET "https://bpm.iau.edu.sa/bpmapi/api/employee" \
    -H "Content-Type: application/xml" \
    -H "Authorization: Bearer YOUR_ACCESS_TOKEN"
```