

## **PH University Management Project**

### **Functional Requirements:**

#### **1. Authentication**

##### **a. Student**

- i. Students can log in and log out securely.
- ii. Students can update their password.

##### **b. Faculty**

- i. Faculty can log in and log out securely.
- ii. Faculty can update their password.

##### **c. Admin:**

- i. Admin can log in and log out securely.
- ii. Admin can update their password.

#### **2. Profile Management:**

##### **a. Student**

- i. Students can manage and update their profile.
- ii. Students can update certain fields.

##### **b. Faculty:**

- i. Faculty can manage and update their profile.
- ii. Faculty can update certain fields.

##### **c. Admin:**

- i. Admin can manage and update their profile.
- ii. Admin can update certain fields.

#### **3. Academic Process:**

##### **a. Student:**

- i. Students can enroll in offered courses for a specific semester.
- ii. Students can view their class schedule.
- iii. Students can see their grades.
- iv. Students can view notice boards and events.

##### **b. Faculty:**

- i. Faculty can manage student grades.

- ii. Faculty can access student's personal and academic information.
- c. Admin:
  - i. Admin can manage multiple processes:
    1. Semester.
    2. Course.
    3. Offered Course.
    4. Section.
    5. Room.
    6. Building.

#### **4. User Management:**

- a. Admin:
  - i. Admins can manage multiple accounts.
  - ii. Admin can block/unblock users.
  - iii. Admin can change user passwords.

## **Data Model**

### **User:**

- `_id`
- `id` (generated)
- `password`
- `needsPasswordChange`
- `role`
- `status`
- `isDeleted`
- `createdAt`
- `updatedAt`

### **Student:**

- `_id`
- `id` (generated)
- `name`
- `gender`
- `dateOfBirth`
- `email`
- `contactNo`
- `emergencyContactNo`
- `presentAddress`
- `permanentAddress`
- `guardian`
- `localGuardian`
- `profileImage`
- `admissionSemester`
- `isDeleted`
- `createdAt`
- `updatedAt`

**Faculty:**

- \_id
- id (generated)
- designation
- name
- gender
- dateOfBirth
- email
- contactNo
- emergencyContactNo
- presentAddress
- permanentAddress
- profileImage
- academicFaculty
- academicDepartment
- isDeleted
- createdAt
- updatedAt

**Admin:**

- \_id
- id (generated)
- designation
- name
- gender
- dateOfBirth
- email
- contactNo
- emergencyContactNo
- presentAddress
- permanentAddress
- profileImage
- managementDepartment

- isDeleted
- createdAt
- updatedAt

### **Academic Semester:**

- \_id
- name
- year
- code
- startMonth
- endMonth
- createdAt
- updatedAt

### **Academic Faculty:**

- \_id
- name
- createdAt
- updatedAt

### **Academic Department:**

- \_id
- name
- academicFaculty
- createdAt
- updatedAt

## API Endpoints

### User:

- users/create-student (POST)
- users/create-faculty (POST)
- users/create-admin (POST)

### Student:

- students (GET)
- students/:id (GET)
- students/:id (PATCH)
- students/:id (DELETE)
- students/my-profile

### Faculty:

- faculties(GET)
- faculties/:id (GET)
- faculties/:id (PATCH)
- faculties/:id (DELETE)
- faculties/my-profile

### Admin:

- admins (GET)
- admins /:id (GET)
- admins /:id (PATCH)
- admins /:id (DELETE)
- admins /my-profile

### Auth:

- auth/login
- auth/refresh-token
- auth/change-password

- `auth/forgot-password`
- `auth/reset-password`