**PH University**

**Functional Requirements:**

1. **Authentication**
   1. **Student**
      1. Student can login and logout securely
      2. Students can update their password.
   2. **Faculty**
      1. Faculty can login and logout securely
      2. Faculty can update their password.
   3. **Admin**:
      1. Facultycan login and logout securely
      2. Faculty can update their password.
2. **Profile Management:** 
   1. **Student**
      1. Students can manage and update their profile.
      2. Students can update certain fields
   2. **Faculty**:
      1. Faculty can manage and update their profile.
      2. Faculty Can update certain fields\
   3. **Admin**:
      1. Admin can manage and update their profile.
      2. Admin can update certain fields
3. **Academic Process**:
   1. Student:
      1. Students can enroll in offered courses for a specific semester.
      2. Students can view their class schedule.
      3. Students can see their grades.
      4. Students can view notice board and events
   2. Faculty:
      1. Faculty can manage student grades
      2. Faculty can access students' personal and academic information.
   3. Admin:
      1. Admin can manage multiple processes:
         1. Semester
         2. Course
         3. Offered Course
         4. Section
         5. Room
         6. Building
4. **User Management:**
   1. Admin:
      1. Admin can manage multiple accounts
      2. Admin can block/unblock user
      3. Admin can change user password

**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