**PH University**

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**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. Admin can login and logout securely
      2. Admin can update their password
2. **Profile Management**
   1. **Student**
      1. Student 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. Student can enroll in offered courses for a specific semester
      2. Students can view their class scheudle
      3. Students can see their grades
      4. Students can view notice board and events
   2. **Faculty**
      1. Faculty can manage students 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)
* role
* name
* gender
* dateofBirth
* email
* contactNo
* emergencyContactNo
* presentAddress
* permanentAddress
* guardian
* localGuardian
* profileImage
* academicDepartment
* 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

Designed ERD in - LUCIDCHART

**API Endpoints**

**User:**

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

**Student:**

* students (GET)
* students/:id (GET)
* students/:id (PATCH) // patch cz partial update
* 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/forget-password
* auth/reset-password