

# Authentication service

We are building a university management system where we have three types of roles such as Admin , Student , Faculty.

## Functional Requirements:

- **Student**

- Student can login and log out
- Student can manage and update their profile.
- Student can update certain fields
- Student can enroll in a semester.
- Student can enroll in offered courses for a specific semester.
- Student can pay their tuition fees through offline or online.(Partial / Full Payment)
- Student can see their transaction histories.
- Student can see their class routines.
- Student can see their notice board and events
- Student can see their result (Full / Semester Wise).
- Student can evaluate their teachers.

- **Admin:**

- Admin can log in and log out
- Admin can manage and update their profile.
- Admin can only update certain fields.
- Admin can manage user accounts
  - Block/Unblock
  - Change Password
  - Forcefully Log out
- Admin can manage multiple process:
  - Semester
  - Offered Courses
  - Section
  - Faculty
  - Student
  - Building

- Room
- Payment
- Permissions
- Activity

- **Faculty:**

- Faculty can log in and log out
- Faculty can manage and update their profile.
- Faculty can only update certain fields.
- Faculty can manage user accounts
- Faculty can manage student grades
- Access to Academic and Personal Information.
- Faculty can manage their lecture resources

## **Models**

### **Permission:**

- title

### **UserPermission:**

- permissionId
- userId

### **User:**

- Id
- **role**
- Password
- createdAt
- updatedAt
- studentId || adminId || facultyId

### **Student:**

- id

- name
  - firstName
  - middleName
  - lastName
- gender
- dateOfBirth
- guardian
- contactNo
- emergencyContactNo
- email
- presentAddress
- permanentAddress
- department
- Subject

#### **Admin:**

- Id
- name
  - firstName
  - middleName
  - lastName
- gender
- dateOfbirth
- email
- contactNo
- emergencyContactNo
- department
- designation

#### **Faculty:**

- Id
- name
  - firstName
  - midleName
  - lastName
- gender
- dateOfBirth
- Email
- contactNo

- emergencyContactNo
- department
- faculty
- designation

## API END POINTS:

- **User:**

- users/create-student (POST)
- users/create-faculty (POST)
- users/create-admin (POST)
- users/my-profile (GET)
- users/:id (GET)
- users/:id (PATCH)
- user/:id (DELETE)
- users/:id/force-logged-out
- users?page=1&limit=10 (GET)
- users/:id/available-permissions?page=1&limit=10 (GET)
- users/:id/assigned-permissions?page=1&limit=10 (GET)
- users/:id/assign-permissions (POST)
- users/:id/remove-permissions (POST)

- **Student:**

- students?page=1&limit=10 (GET)
- students/:id (GET)
- students/:id (PATCH)

- **Faculty:**

- faculties?page=1&limit=10 (GET)
- faculties/:id (GET)
- faculties/:id (PATCH)

- **Admin:**

- admins?page=1&limit=10 (GET)
- admins/:id (GET)
- admin/:id (PATCH)

- **Permission**

- permissions?page=1&limit=10 (GET)
- permissions (POST)
- permissions/:id (GET)
- permissions/:id (PATCH)
- permissions/:id (DELETE)

- **Auth**

- auth/login (POST)
- auth/refresh-token (POST)
- auth/change-password (POST)
- auth/forgot-password (POST)
- auth/reset-password (POST)