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 otice 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**

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**Permission:**

* title

**UserPermission:**

* permissionId
* userId

**User:**

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

**Student:**

* id
* name
  + fisrtName
  + middleName
  + lastName
* gender
* dateOfBirth
* guardian
* contactNo
* emergencyContactNo
* email
* presentAddress
* permanentAddress
* department
* Subject

**Admin:**

* Id
* name
  + fisrtName
  + 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)