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

Functional Requirements:

* Student

1. Students can log in and log out.
2. Students can manage and update their profile.
3. Students can update certain fields.
4. Students can enroll in a semester.
5. Students can enroll in offered courses for a specific semester.
6. Students can pay their tuition fees offline or online. (Partial / Full Payment)
7. Students can see their transaction histories.
8. Students can see their class routines.
9. Students can see their notice board and events.
10. Students can see their result. (Full / semester wise)
11. Students can evaluate their teachers.

* Admin

1. Admin can log in and log out.
2. Admin can manage and update their profile.
3. Admin can only update certain fields.
4. Admin can manage user accounts = Block/ Unblock, change password, Forcefully log out
5. Admin can manage multiple process = Semester, Offered courses, Section, Faculty, Student, Building, Room, Payment, Permissions, Activity

* Faculty

1. Faculty can log in and log out.
2. Faculty manage and update their profile.
3. Faculty can only update certain fields.
4. Faculty can manage user accounts.
5. faculty can manage student grades.
6. Access to academic and personal information.
7. faculty can manage their lecture recourses.

Authentication Application

Permissions

1. title

UserPermission:

1. permissionId
2. userId

User

1. id
2. role
3. password
4. createdAt
5. updatedAt
6. studentId || adminId || facultyId

**Student**

1. id
2. name
3. firstName
4. middleName
5. lastName
6. gender
7. dateOfBirth
8. gurdian
9. contactNo
10. email
11. emergencyContactNo
12. persentAddress
13. permanentAddress
14. department
15. subject

**Admin**:

1. id
2. name
3. firstName
4. middleName
5. lastName
6. gender
7. dateOfBirth
8. email
9. contactNo
10. emergencyContactNo
11. department
12. designation

**Faculty**

1. id
2. name
3. firstName
4. middleName
5. lastName
6. gender
7. dateOfbirth
8. email
9. contactNo
10. emergencyContactNo
11. department
12. faculty
13. designation