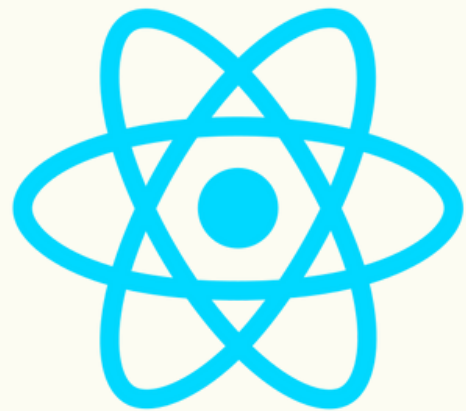# UNIVERSITY MANAGEMENT SYSTEM

TEAM B12

TEAM-B12

- ABHISHTA H MALLAYA - CB.AI.U4AID23102

- GOWTHAM S D - CB.AI.U4AID23113

- KANISHKA S J - CB.AI.U4AID23121

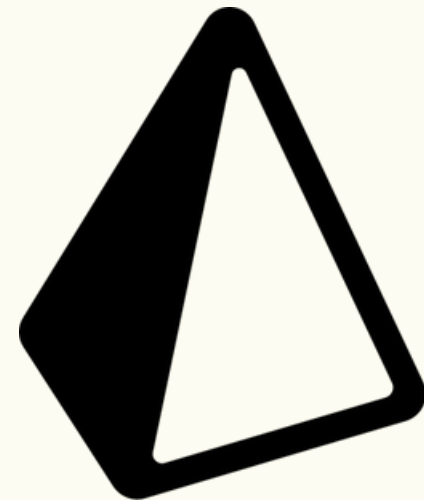- VYSHNAV KUMAR S - CB.AI.U4AID23151

OVERVIEW

THE SYSTEM FEATURES THREE DISTINCT USER ROLES:

- **Admin**: Responsible for system-wide management, configuration, and oversight of all modules. System's supervisors with access to all features, with highest privileges.
- **Teacher**: Empowered with tools for course management, student assessment, attendance tracking, and facility booking.
- **Student**: Provided with interfaces for course enrollment, performance tracking, library access, and extracurricular participation. this helps to enhance the educational experience and facilitate easy access to college resources.
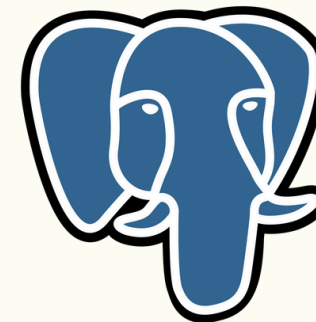
SYSTEM ARCHITECTURE

Frontend: React.js with Material UI components providing a responsive, consistent user experience across all devices with reusable UI elements.

Backend: Prisma ORM delivering type-safe database operations with auto-generated queries, robust validation, and simplified relationship management.

Database: PostgreSQL with a normalized schema of 25+ interconnected tables efficiently handling complex relationships between academic entities.

Authentication: Next.js Authentication framework enabling secure access control, session management, and role-based permissions for students, teachers, and administrators.

ADMIN FEATURES

user
- account creation and role assignment
- profile management
- account status control

- auditorium management
- library administration
- timetable assignment
- feedback view

FACULTY FEATURES

- course management

- attendance tracking

- schedule management

- student assessment

- auditorium booking

STUDENT FEATURES

- view registered course
- academic performance view
  - grade
  - attendance
  - cpga , sgpa
- library access
- feedback submission
- view timetable

CONTRIBUTIONS

Total pages in the project (just UI files):
Student - 6
Teacher - 7
Admin - 6

ABHISHTA H MALLAYA - (4/6) Admin pages
GOWTHAM S D - (2/6) Student , (2/7) Teacher , (2/6) Admin pages
KANISHKA S J - (5/7) Teacher pages
VYSHNAV KUMAR S - (4/6) Student pages

Database creation and integration / back end - everyone

THANK YOU