

# College ERP System Development Progress Report

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June 2025

## 1 Project Overview

This report summarizes the progress made on the College ERP System development project. The project aims to create a comprehensive educational resource platform designed to streamline academic operations and enhance institutional efficiency.

## 2 Meeting Summary

### 2.1 Meeting Schedule and Attendance

The project development involved a series of meetings with the following participants:

- **Dr. Shashank Shetty** - Project Supervisor
- **Dr. Puneeth RP** - Project Supervisor
- **Krishna Prasad** - Project Supervisor
- **Krishna N Acharya** - Developer

### 2.2 Meeting Details

#### 2.2.1 Meeting 1: May 30, 2025

**Objective:** Project Description and Initial Planning

- Comprehensive project description was presented
- System requirements and scope were discussed
- Database architecture planning was initiated
- **Task Assigned:** Development of database schema

### 2.2.2 Meeting 2: June 3, 2025

**Objective:** Schema Review and Validation

- Database schema design was reviewed
- Entity relationships were validated
- Schema optimization discussions took place
- Feedback and revisions were incorporated

### 2.2.3 Meeting 3: June 14, 2025

**Objective:** Alpha Frontend Design Review

- Initial frontend design prototype was demonstrated
- User interface components were reviewed
- User experience workflow was evaluated
- **Task Assigned:** Implementation of marks section functionality

### 2.2.4 Upcoming Meeting: June 27, 2025

**Scheduled Objective:** Progress Review and Next Phase Planning

- Review of marks section implementation
- Assessment of current development progress
- Planning for subsequent development phases

## 3 Technical Progress

### 3.1 Database Development

- **Schema Design:** Comprehensive database schema created using Prisma ORM
- **Entity Coverage:** Users, Students, Teachers, Courses, Enrollments, Attendance, Marks
- **Technology Stack:** PostgreSQL with Prisma ORM

### 3.2 Frontend Development

- **Framework:** Next.js 15 with TypeScript
- **UI Components:** Responsive design using Tailwind CSS
- **User Portals:** Student, Teacher, Admin, and Analytics portals
- **Authentication:** Role-based login system implemented

### 3.3 Backend Development

- **API Framework:** Express.js with TypeScript
- **Database Integration:** Prisma client configuration
- **Health Monitoring:** Database connectivity endpoints

## 4 Key Deliverables Completed

1. Database schema design and implementation
2. Multi-role authentication system
3. Responsive frontend interface
4. Analytics dashboard with attendance and marks tracking
5. Course and department management modules
6. Student enrollment and attendance tracking system

Following the June 27, 2025 meeting, the development will focus on:

- Completion of marks section implementation
- Backend API development for data management
- Integration testing between frontend and backend
- User acceptance testing preparation

## 5 Conclusion

The College ERP System development is progressing according to schedule. The foundation components including database design, authentication system, and core frontend interfaces have been successfully implemented. The project is well-positioned for the next development phase focusing on complete functionality integration.

**Prepared by:** Krishna N Acharya

**Date:** June 27, 2025

**Project:** College ERP System Development