

30-Day Project Development Plan

This document outlines a 30-day development schedule for the project, covering backend setup, route expansion, middleware integration, and frontend development.

Week 1 – Backend Setup & Models

Day	Task / Commit Description	Files to Commit
1	Init project & setup Express server	backend/package.json, .gitignore, backend/index.js (basic server start)
2	Add MongoDB connection config	backend/models/index.js (just DB connection part), .env.example
3	Create Admin, Student, Professor schema	backend/models/index.js (schemas only)
4	Add Course & Assignment schema	backend/models/index.js (append)
5	Add Submission schema & export models	Finish backend/models/index.js
6	Create base routes for /student	backend/routes/student.js (just login placeholder)
7	Create base routes for /admin	backend/routes/admin.js (basic CRUD placeholder)

Week 2 – Backend Routes Expansion

Day	Task / Commit Description	Files to Commit
8	Add /course routes	backend/routes/course.js (basic endpoints)
9	Add /post routes	backend/routes/post.js
10	Add /professor routes	backend/routes/professor.js
11	Add /markAttendance route	backend/routes/markAttendance.js
12	Add /viewAttendance route	backend/routes/viewAttendance.js
13	Add /results route	backend/routes/results.js
14	Add /todo route	backend/routes/todo.js

Week 3 – Middleware & Integration

Day	Task / Commit Description	Files to Commit
15	Add JWT authentication middleware	backend/middleware/user.js, backend/middleware/professorAuth.js, backend/middleware/userAuth.js

16	Add file upload middleware	backend/middleware/Upload.js
17	Integrate routes in index.js	Updated backend/index.js with all route imports
18	Test backend with Postman & fix minor issues	Small changes across backend

Week 4 – Frontend Setup & UI

Day	Task / Commit Description	Files to Commit
19	Init React app	frontend/package.json, src/index.js, .gitignore
20	Add Tailwind & Material UI setup	tailwind.config.js, styles
21	Create basic layout (Navbar, Sidebar)	frontend/src/components/Navbar.js, Sidebar.js
22	Add Login & Register pages	frontend/src/pages/Login.js, Register.js
23	Add Dashboard page for Admin, Student, Professor	frontend/src/pages/AdminDashboard.js, StudentDashboard.js, ProfessorDashboard.js
24	Add Course list & detail page	frontend/src/pages/CourseList.js, CourseDetail.js
25	Add Assignment upload & submission UI	frontend/src/pages/Assignments.js
26	Add Attendance view UI	frontend/src/pages/Attendance.js
27	Add Results view UI	frontend/src/pages/Results.js
28	Connect frontend to backend API	API services in frontend/src/api/
29	Final bug fixes & polish	Small fixes in backend & frontend
30	Final commit – Project ready 🎉	README.md with setup instructions