



## Project Timeline

### Week 1: Project Initiation (15-12-2025 to 20-12-2025)

- Understand
  - problem statement
  - Project objectives and Target users
  - Functional requirements
  - Non-functional requirements
  - User roles & permissions
  - Use case identification
- Create GitHub repository

### Week 2: Database & API Design (22-12-2025 to 27-12-2025)

- Database schema finalization
- ER Diagram
- API endpoint design
- API list (CRUD mapping)
- Data flow mapping

### Week 3: UI/UX Design & Routing (29-12-2025 to 03-01-2026)

- Wireframes for all major screens
- Responsive layout planning
- Routing setup in NextJS
- Layout.tsx, Navbar, Sidebar

### Week 4: Frontend Development (Phase-1) (5-01-2026 to 10-01-2026)

- Home page
- Authentication UI (Login/Register)
- Dashboard layout
- Reusable components

### Week 5: Frontend Development (Phase-2) (12-01-2026 to 17-01-2026)

- Form handling
- Client-side validation
- Error handling
- API integration (mock/live)

### Week 6: Backend Setup & Database Integration (19-01-2026 to 24-01-2026)

- Database connection
- ORM setup

- API routes implementation
- CRUD operations

**Week 7: Authentication & Authorization (26-01-2026 to 31-01-2026)**

- User authentication
- Role-based access control
- Protected routes
- Session handling

**Week 8: Core Feature Implementation (2-02-2026 to 07-02-2026)**

- Implement main project modules
- Data operations
- Business logic

**Week 9: Advanced Features (9-02-2026 to 14-02-2026)**

- Search, filter, pagination
- File upload
- State management
- Performance tuning

**Week 10: Error Handling, Testing (16-02-2026 to 21-02-2026)**

- Centralized error handling
- API optimization
- Code refactoring
- Unit testing
- API testing
- Input validation

**Week 11: Deployment (23-02-2026 to 28-02-2026)**

- Deployment on Vercel
- Environment variables
- Production testing

**Week 12: Final Demo & Viva (2-03-2026 to 07-03-2026)**

- Project Evaluation with Project demonstration and Viva