

Student Document Management System

Project Timeline

Phase 1: Project Setup & Core Configuration (3 days)

Tasks:

- Set up ASP.NET Core backend with Identity (AspNetUsers table extension)
- Create Angular frontend project skeleton
- Create Models & Entities
- Setup DbContext + EF Core Migrations (configure relationships, apply migrations, seed master data)
- Implement JWT authentication and role setup (Student, Admin)

Phase 2: Student Registration & Admin Approval (3 days)

Tasks:

- Build Student Registration form in Angular
- Implement backend API: POST /StudentAccount/register
 - Validate input
 - Create AspNetUsers record with Status = Pending
- Build Admin page for pending registrations:
 - View pending students
 - Approve / Reject functionality (update status)
- Display registration status on student frontend

Phase 3: Student Login & Access Control (1-2 days)

Tasks:

- Implement backend login API (POST /StudentAccount/login)
 - Return JWT + user info + Status
- Frontend behavior based on Status:
 - Approved → full access
 - Pending → login allowed, upload blocked
 - Rejected → login denied with message
- Protect routes in Angular based on approval status

Phase 4: Profile & Document Upload (4–5 days)

Tasks:

- Create student profile form (FullName, Phone, Address, Course etc.)
- Implement document upload component (select DocumentType)
- Backend API: POST /Student/profile-upload
 - Validate profile fields

- Validate file type and size
- Save files.
- Insert/update Student and Document tables (Status = Pending)
- Frontend: list uploaded documents with status (Pending/Approved/Rejected)
- Implement API to Download documents and API integration

Phase 5: Admin Document Approval / Rejection (3 days)

Tasks:

- Admin page for pending documents
- Approve/Reject each document with optional remarks
- Update Document table status in backend
- Frontend shows updated status to students and remarks for rejected documents
- Handle rejected documents for resubmission

Phase 6: Resubmission of Rejected Documents (2–3 days)

Tasks:

- Student sees rejected documents with remarks, visible as notification
- Re-upload corrected documents → backend updates Document table (Status = Pending)
- Admin can review newly uploaded documents

Phase 7: Profile Completion Calculation (1 day)

Tasks:

- Implement backend logic
 - $(\text{Number of approved documents} / \text{Total required documents}) * 100\%$
- Frontend progress bar or percentage display and API Integration

Phase 8: Document Management for Admin(1–2 days)

- Admin page for viewing all students and their documents, and downloading documents.
- API to get all student, download documents, search and filter students

Phase 9: Student Profile for admin(1 day)

- Admin page for viewing student profile information.
- API to get details of a student by filter.

Phase 10: Dashboards(2 days)

- APIs for Admin and Student Dashboards
- Angular component for dashboard based on role
- API integration

Phase 11: Testing & Bug Fixing (3–4 days)

Tasks:

- Unit testing for APIs and services
- Functional testing of all flows (registration, login, upload, approval, rejection, resubmission)
- Fix issues & validate edge cases
- All flows verified

Total Duration: ~24–29 days