

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.

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
 - $(\text{Number of uncompleted fields} / \text{Total required fields}) * 100\%$
- 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

Phase	Name	Duration	Key Tasks
Phase 1	Project Setup & Core Config	3 days	Backend setup (Identity, DbContext, EF Core, JWT, roles), Angular skeleton
Phase 2	Student Registration & Admin Approval	3 days	Student registration form & API, Admin approval/rejection of registrations, status display
Phase 3	Student Login & Access Control	1–2 days	Login API (JWT), role/status-based login & route protection
Phase 4	Profile & Document Upload	4–5 days	Student profile form, document upload (validation + DB save), file download API, frontend listing
Phase 5	Admin Document Approval/Rejection	3 days	Admin pending docs page, approve/reject with remarks, student sees status
Phase 6	Resubmission of Rejected Docs	2–3 days	Student re-upload rejected docs, admin review cycle
Phase 7	Profile Completion Calculation	1 day	Backend % completion logic, frontend progress bar
Phase 8	Document Management for Admin	1–2 days	Admin view all students/docs, download, search/filter
Phase 9	Student Profile for Admin	1 day	API + admin page for viewing student profile
Phase 10	Dashboards	2 days	Role-based dashboards (Admin/Student), API integration
Phase 11	Testing & Bug Fixing	3–4 days	Unit & functional testing, bug fixing, validation of flows

Milestone 1: Core Setup & User Onboarding

Covers: Phase 1–3 (7–8 days)

Deliverables:

- Backend setup with models, DbContext, migrations, Identity, JWT
- Angular skeleton with auth service
- Student Registration & Admin approval flow (backend + frontend)
- Student login with role/status-based access
 - Outcome: A working system where students can register, admins can approve/reject, and students can log in depending on status.

Milestone 2: Profile & Document Workflow

Covers: Phase 4–7 (9–11 days)

Deliverables:

- Student profile form & completion progress
- Document upload with type/size validation & DB integration
- Admin approval/rejection of documents with remarks
- Student notifications for rejected docs & resubmission workflow
 - Outcome: End-to-end profile completion and document management loop fully functional.

Milestone 3: Full Management & Dashboards

Covers: Phase 8–11 (8–10 days)

Deliverables:

- Admin management: view/search/filter students, download documents
- Admin view of student profiles
- Role-based dashboards (Admin & Student)
- Theming, loaders, toasters, modals, UI refinements
- Testing, bug fixing, polishing
 - Outcome: Complete Document Management System with dashboards, smooth UX, and admin/student workflows fully functional.