

STUDENT DOCUMENT MANAGEMENT SYSTEM Data Flow Overview

1. Student Registration & Admin Approval

- Student submits registration form via frontend.
- Frontend sends data to Backend API: POST /StudentAccount/register.
- Backend validates input, creates AspNetUsers record with Status = Pending.
- Frontend shows message: "Registration submitted. Await admin approval."
- Admin reviews pending registrations:
 - Approve: Student can log in and upload documents.
 - Reject: Student denied from login.

2. Student Login

- Student can log in even if Status = Pending.
- Backend returns user info and login token.
- Frontend behavior:
 - Approved: full access (profile + document upload).
 - Pending: login allowed but upload blocked; message shown: "Admin approval required."
 - Rejected: login denied.

3. Student Profile & Document Upload (Post-Approval)

- Student fills profile details: FullName, Phone, Address, CourseApplied, etc.
- Student uploads relevant documents (multiple files with DocumentType).
- Frontend calls API: POST /Student/profile-upload (multipart/form-data).
- Backend validates profile info and files.
- Saves files in /Uploads/{studentId}/{yyyy}/{MM}/{GUID}.pdf
- Updates Student table.
- Inserts into Document table (Status = Pending).
- Frontend lists uploaded documents with status (Pending / Approved / Rejected).

4. Admin Document Approval / Rejection

- Admin views pending documents.
- Approves or rejects each document:
 - Approve: Status = Approved.
 - Reject: Status = Rejected + Remarks.
- Frontend displays updated status to student.
- Rejected documents can be resubmitted.

5. Student Resubmission of Rejected Documents

- Student sees rejected documents with remarks.
- Student re-uploads corrected documents.
- Frontend calls API: POST /Student/profile-upload or PUT /Document/resubmit.
- Backend updates Document table with new file path and Status = Pending.
- Frontend updates document list to Pending.

6. Profile Completion Calculation

- Formula: (Number of required documents uploaded & approved / Total required documents) * 100%
- Only approved documents count.
- Frontend shows progress bar or percentage.

7. Summary

Action	Allowed?	Notes
Student login before approval	✓ Yes	Upload blocked; can view registration status
Upload documents before approval	✗ No	Message shown: "Await admin approval"
Upload documents after approval	✓ Yes	Status = Pending initially
Admin approves registration	✓ Yes	Enables upload & profile edit
Admin approves document	✓ Yes	Status = Approved
Admin rejects document	✓ Yes	Status = Rejected + Remarks; student can resubmit
Resubmit rejected document	✓ Yes	Status = Pending

8. Full Data Flow (Text Version) Student Frontend:

- Register --> Backend --> AspNetUsers (Status=Pending) --> Show: Await Admin Approval
- Login --> Backend (returns status + token)
- If Approved --> Access Profile & Upload
- If Pending --> Show message, upload blocked
- If Rejected --> Show rejection remarks
- Upload Profile + Documents --> Backend --> Update Student & Document Tables
- List documents (Pending/Approved/Rejected + Remarks)
- Resubmit Rejected Documents --> Backend --> Document Table (Status=Pending)

Admin Frontend:

- View Pending Registrations --> Backend --> AspNetUsers Table
- Approve/Reject Registration --> Backend --> Update Status + Remarks
- View Pending Documents --> Backend --> Document Table
- Approve/Reject Documents --> Backend --> Update Status + Remarks