BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
Sathyamangalam - 638401 Erode District, Tamil Nadu, India

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Seat No: 354

Project ID: 29

Project title: COURSE FILE AUTOMATION

Technical Components

Component	Python Stack
Backend	PYTHON
Frontend	HTML & CSS, JS
Database	MySQL
API	RESTful services

Implementation Timeline

Phase	Deadline	Status	Notes
Stage 1	24/07/2024	UNDER REVIEW	Planning and Requirement gathering
Stage 2		IN PROGRESS	Design and Prototyping
Stage 3		NOT STARTED	DB Designing
Stage 4		NOT STARTED	Backend Implementation
Stage 5		NOT STARTED	Testing & Implementation

PROBLEM STATEMENT:

The task is to design an automated system for college courses that efficiently manages files, like Mission and Vision of the Institution and department and also Exam details, Timetable, student list and syllabus for the students. reducing administrative burden and improving access to information

PROJECT-FLOW- Course File Automation:

Important characteristics of the Portal/App include:

A. User Authentication:- Safe login processes for Faculty and Head of Department

B. User friendly interface:- Simple and intuitive design for easy navigation by both professors and students.

C. Automated File Creation:- This core feature allows instructors to create essential course files with minimal manual work. Users can define templates to automatically generate content based on course details

D. Version control and Revision history:- Keep track of changes made to course files. This allows instructors to revert to previous versions or collaborate effectively with colleagues while maintaining a clear revision history.

Purpose:

To develop an automated system that efficiently manages and organizes course files, resolving existing issues of inefficiency, errors, and accessibility in manual course file management.

Scope:

This system includes features such as user authentication, automated organization of course files, version control, role-based access control, robust search functionality, integration with existing learning management systems , automated notifications, and reporting capabilities.

Business Context:

Using Python to implement the automated course file management system is aimed at enhancing the organization, accessibility, and accuracy of course files across the institution, thus boosting educational and administrative efficiency. Primary stakeholders include faculty, administrative staff, and the IT department.

Consideration:

- Every user has an active Google account in order to be authenticated.
- Users often have access to device with internet connectivity.

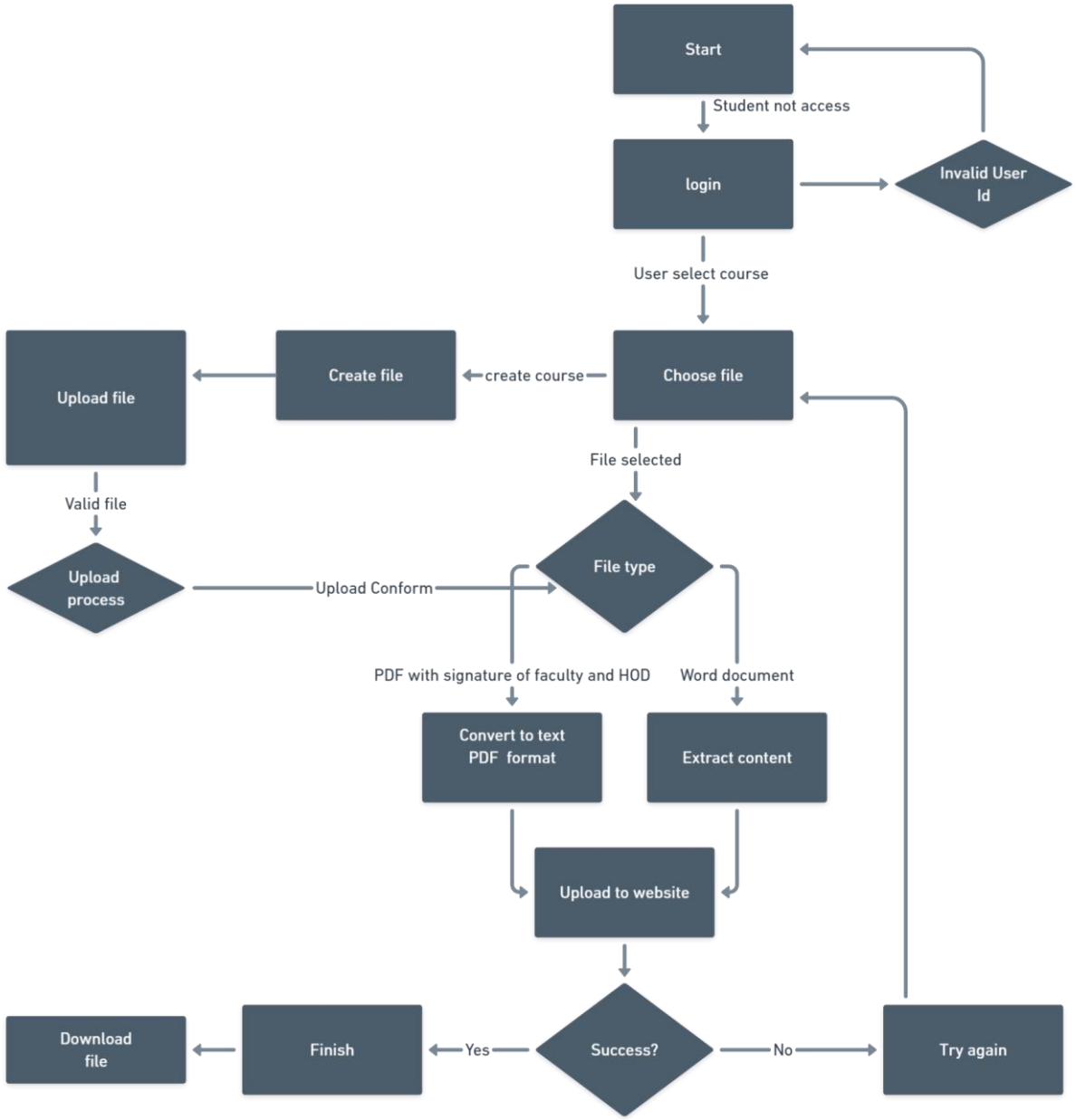
User personas:

1. Admin staff: Manages system operations, ensures compliance with institutional standards, and supports users.
2. Faculty: Requires the ability to upload, update, and organize course files efficiently.

Functional Requirements:

1. User Authentication: To manage system access, use secure login.
2. Course Creation: Professors can create new courses and define access restrictions for enrolled students.
3. File upload and Organization: Users can upload Course file formats like documents, PDFs, images relevant to the course. The system should categorize uploaded file for easy access and navigation.
4. Access Control: The access control to ensure only authorized users can view or edit specific documents.
5. Notification System: Users can receive notification about Updates, Important change and upcoming deadlines.
6. Search Functionality: The system should allow users to search for specific documents or content within course file using keywords.
7. Version control: Automatically tracks changes and maintain the previous version.
8. Reporting: Provide reports on course file usage, updates, and compliance with institutional standards.

FLOW CHART:


Start
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login
Invalid User Id
User select course
Upload file
Create file
create course
Choose file
File selected
Valid file
Upload process
Upload Conform
File type
PDF with signature of faculty and HOD
Word document
Convert to text PDF format
Extract content
Upload to website
Download file
Finish
Yes
Success?
No
Try again