BANNARI AMMAN INSTITUTE OF TECHNOLOGY

Autonomous Institution, Accredited by NAAC With 'A' Grade

STUDENT NAME : VELAVAN P K

SEAT NO : 342

PROJECT ID : 22

PROJECT NAME : WIKI PAGE GENERATION

TECHNICAL COMPONENTS :

COMPONENT	TECH STACK
FRONTEND	Angular(Js Framework)
BACKEND	Express.js(Web framework for Node.js) Node.js(Javascript runtime environment)
DATABASE	MongoDB(NOSQL Database)
API	RESTFul API

Project Overview:

The Wiki Page Generation System is designed to streamline the process of creating and maintaining wiki pages for courses offered by faculties. This system automates the generation of wiki page content based on inputs provided by faculties, manages the submission and approval of course-related videos, and tracks adherence to submission deadlines. The system aims to improve efficiency, transparency, and accountability in the course content management process.

Project WorkFlow:

1.Login User Authentication:
  -Allows only bitsathy users to access the wiki page.

2. Input Collection Module:
  - Collects information such as faculty ID, name, department, designation, and email.
  - Gathers subject codes and names from faculties for wiki page content generation.

3. Wiki Page Content Generation Module:
  - Utilizes collected information to automatically generate wiki page content.
  - Includes faculty details and their associated subjects in the generated content.

4. Video Submission Module:
  - Allows faculties to submit videos for their respective courses.
  - Ensures compliance with guidelines and quality standards for submitted videos.

5. Video Approval Process Module:
  - Defines criteria for video vetting and approval.
  - Reviews submitted videos based on predefined criteria.
  - Approves videos meeting the criteria; requests revisions for others.

6. Upload Process Module:
   - Upon approval, upload the videos to the respective wiki pages.
   - Waits for revised videos if initial submissions require revisions.

7. Due Date Management Module:
   - Sets due dates for video submissions.
   - Monitors submission dates and calculates late submission penalties.

8. Penalty Calculation Module:
   - Determines penalty system for late submissions.
   - Calculates negative points based on days of delay and applies penalties accordingly.

9. Communication Module:
   - Communicates with faculties regarding submissions, approvals, rejections, and penalties.
   - Provides clear instructions and deadlines for compliance.

10. Record Keeping Module:
   - Maintains records of all submissions, approvals, rejections, and penalties.
   - Tracks faculty performance and adherence to submission deadlines.

11. Review and Iteration Module:
   - Regularly reviews system efficiency and effectiveness.
   - Gathers feedback for continuous improvement and iteration of the workflow.

Functional Requirements:

1. User-friendly portal for input collection.

2. Automated generation of wiki page content.

3. Facilitation of video submission by faculties.

4. Robust video approval process with predefined criteria.

5. Management of due dates for video submissions.

6. Effective communication with faculties regarding submissions, approvals, and penalties.

7. Comprehensive record-keeping of all activities.

Non-functional Requirements:

1. Usability: The system should be intuitive and easy to navigate.

2. Performance: Responses to user requests should be prompt, and video processing should be efficient.

3. Reliability: The system should have high uptime and ensure data integrity.

4. Security: User data and video content should be securely stored and transmitted.

5. Scalability: The system should be able to handle increasing numbers of users and data.

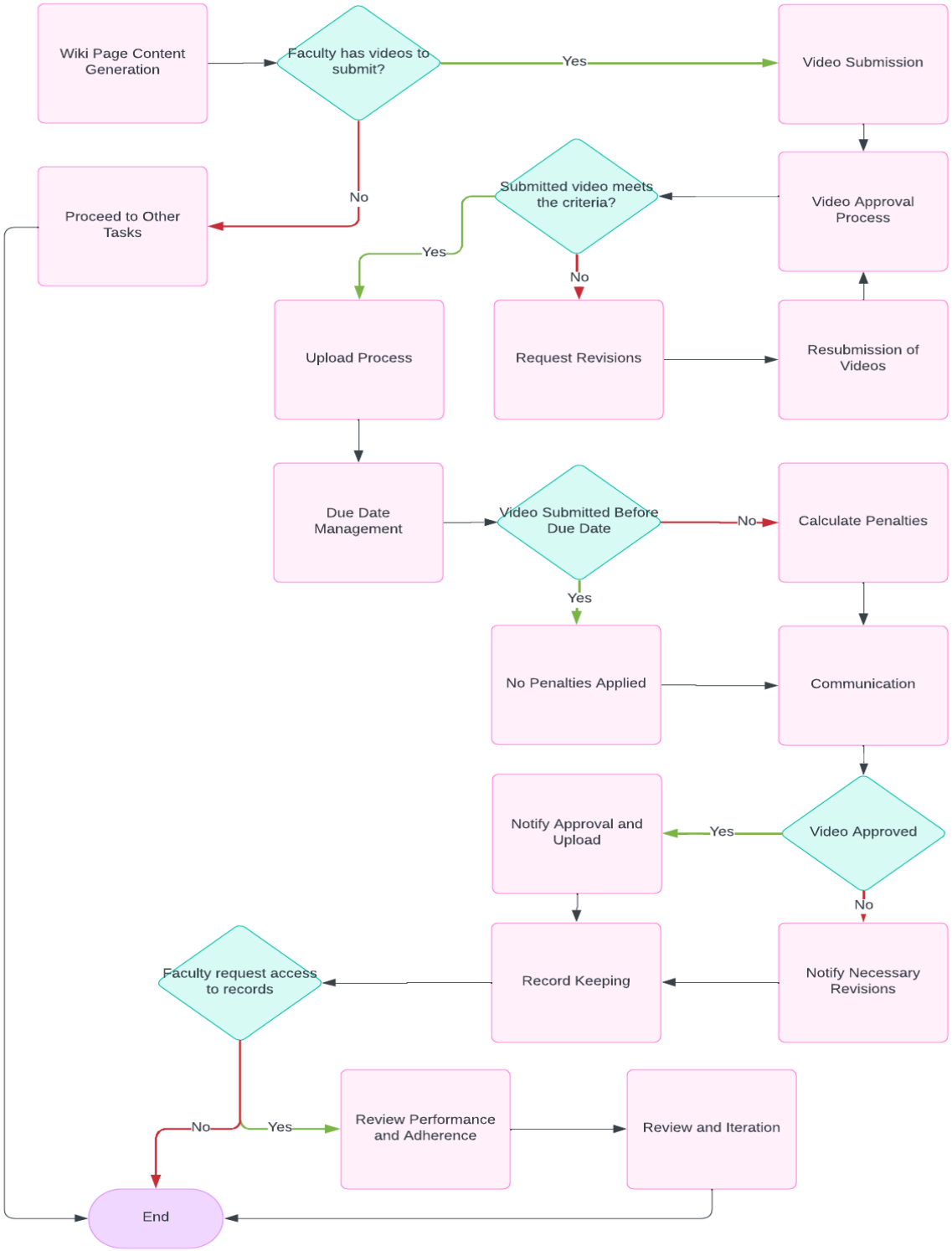
6. Maintainability: The system should be easy to maintain and update.

7. Compatibility: The system should work across different web browsers and operating systems.

Project Stakeholders:

- Faculty Members
- Administrators
- Students

FLOWCHART :


Wiki Page Content Generation
Faculty has videos to submit?
Yes
Video Submission
No
Proceed to Other Tasks
Submitted video meets the criteria?
Video Approval Process
Yes
No
Upload Process
Request Revisions
Resubmission of Videos
Due Date Management
Video Submitted Before Due Date
No
Calculate Penalties
Yes
No Penalties Applied
Communication
Notify Approval and Upload
Yes
Video Approved
No
Faculty request access to records
Record Keeping
Notify Necessary Revisions
No
Yes
Review Performance and Adherence
Review and Iteration
End

ER DIAGRAM (DATABASE) :