



# BANNARI AMMAN

## INSTITUTE OF TECHNOLOGY

Autonomous Institution, Accredited by NAAC With 'A' Grade

**STUDENT NAME** : GOWTHAM P K  
**SEAT NO** : 302  
**PROJECT ID** : 22  
**PROJECT NAME** : WIKI PAGE GENERATION

### TECHNICAL COMPONENTS :

COMPONENT	TECH STACK
FRONTEND	HTML,CSS,JAVASCRIPT
BACKEND	Python web development(using DJANGO framework)
DATABASE	PostgreSQL USING MySQL
API	OpenAPI, SOAP APIs , REST Ful API

## **Project Overview:**

The Wiki Page Generation System simplifies the creation and upkeep of wiki pages for faculty-taught courses. It automates content generation based on faculty inputs, manages video submissions for courses, and monitors deadlines for video submissions. Essentially, it streamlines the process of handling course materials, making it more efficient and accountable.

## **Project Objectives:**

1. Develop a user-friendly portal for input collection and wiki page generation.
2. Automate the generation of wiki page content using collected information.
3. Facilitate video submission by faculties for their respective courses.
4. Implement a robust video approval process based on predefined criteria.
5. Manage due dates for video submissions and calculate penalties for late submissions.
6. Ensure effective communication with faculties regarding submissions, approvals, and penalties.
7. Maintain comprehensive records of all activities for review and analysis.
8. Continuously review and iterate on the system for optimization and improvement.

## **Project WorkFlow:**

### **1. 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.

### **2. 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.

### 3. Content Submission Module:

- Allows faculties to submit content for their respective courses.
- Ensures compliance with guidelines and quality standards for submitted content.

### 4. Content Approval Process Module:

- Defines criteria for content(only for video) vetting and approval.
- Reviews submitted content based on predefined criteria.
- Approves content meeting the criteria; requests revisions for others.

### 5. Upload Process Module:

- Upon approval, upload the content to the respective wiki pages.
- Waits for revised content if initial submissions require revisions.

### 6. Due Date Management Module:

- Sets due dates for video submissions.
- Monitors submission dates and calculates late submission penalties.

### 7. Penalty Calculation Module:

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

### 8. Communication Module:

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

### 9. Record Keeping Module:

- Maintains records of all submissions, approvals, rejections, and penalties.
- Tracks faculty performance and adherence to submission deadlines.

### 10. Review and Iteration Module:

- Regularly reviews system efficiency and effectiveness.
- Gathers feedback for continuous improvement and iteration of the workflow.

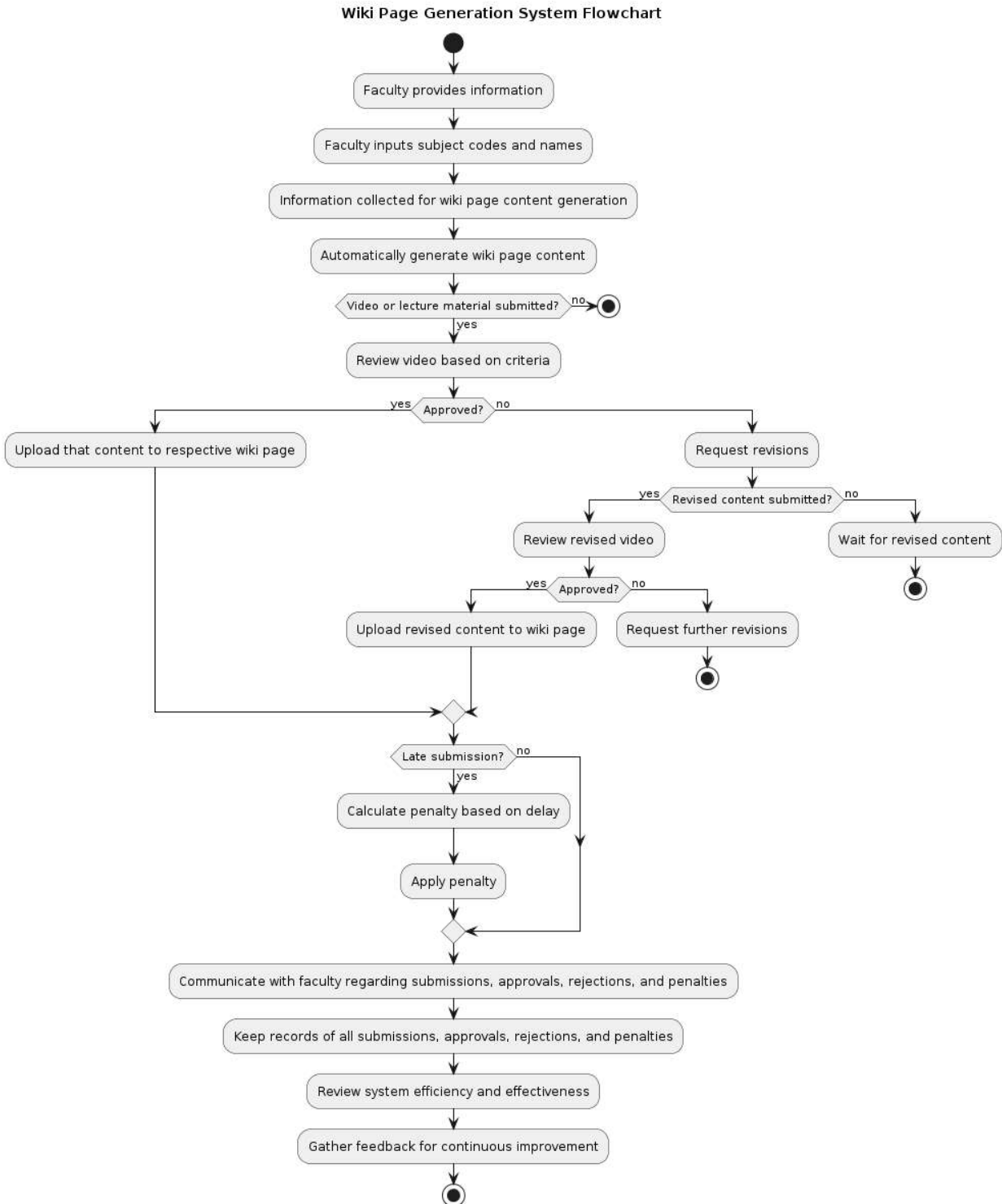
## **NON-FUNCTIONAL REQUIREMENT:**

- **Performance:** Fast response time, even under high load.
- **Security:** Strong encryption, robust access controls.
- **Reliability:** High uptime, reliable backup systems.
- **Compatibility:** Seamless operation across browsers and devices.
- **Maintainability:** Well-documented, easily updatable codebase.
- **Scalability:** Able to handle increasing user numbers without performance degradation.
- **Usability:** Intuitive interface, efficient error handling.
- **Compliance:** Adherence to relevant data protection laws.
- **Testing:** Rigorous performance testing for peak loads.
- **Recovery:** Regular backups with clear restoration procedures.

## **Project Stakeholders:**

- Faculty Members
- Administrators

## FLOWCHART :



## ER DIAGRAM ( DATABASE ) :

