Name: Sanika M. Sarang

Project Synopsis: Personal Diary Assistant (Version 1)

1. Title:

Personal Diary Assistant: A Web Application for Diary Management

2. Introduction:

The Personal Diary Assistant is a web-based application designed to help users manage their personal diary entries securely and efficiently. The project integrates a user-friendly interface with essential features such as user authentication, diary management, and an AI-powered chatbot for assistance. This project aims to provide a seamless and interactive platform for users to record, edit, and view their daily entries.

3. Objectives:

The primary objectives of this project are:

- To create a secure platform for diary management with user authentication.
- To implement CRUD operations for diary entries (Create, Read, Update, Delete).
- To integrate a chatbot for enhanced user interaction and support.
- To provide a visually appealing and user-friendly interface for managing entries.
- To ensure scalability and ease of deployment for a wider user base.

4. Scope of Work:

This project will cover the following tasks:

- User Authentication: Secure login and registration system.
- Diary Management:
- Add, view, edit, and delete entries.
- Chatbot Integration: AI-powered chatbot to assist users with queries.
- User Interface Development: Design and implement a responsive interface.
- Backend Development: Handle data processing and storage securely.

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5. Methodology

1. Requirement Gathering:

• Identify user needs and define the core functionalities.

2. Design:

- Create wireframes for the user interface.
- Design the database schema.

3. Development:

- Implement user authentication using Flask.
- Develop CRUD functionalities for diary management.
- Integrate the chatbot using an AI/ML framework.

4. Testing:

- Perform unit and integration testing.
- Ensure the application is secure and bug-free.

5. Deployment:

• Deploy the application on a hosting platform (e.g., Heroku).

6. Tools and Technologies

- Programming Language: Python (Flask Framework)
- Frontend: HTML, CSS, JavaScript, Bootstrap
- Database: Xampp
- Libraries: Flask, SQLAlchemy, Pandas, Scikit-learn (for chatbot) or IBM resources
- Hosting: Heroku or similar platform

7. Expected Outcomes

- A secure, functional personal diary application with all CRUD operations.
- An integrated chatbot for improved user experience.
- A responsive web application with an intuitive design.
- Comprehensive documentation of the project for future reference.

8. Timeline

Week---- Task

Week 1: Requirement Gathering & Design

Week 2: User Interface & Backend Development

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Week 3: Chatbot Integration & Testing

Week 4: Final Testing & Deployment

9. Conclusion

The Personal Diary Assistant aims to revolutionize diary management by combining security, ease of use, and AI-powered assistance. This project provides a robust platform for users to organize their personal records efficiently, catering to a diverse user base.