

fsd-demo-Project-Plan

December 30, 2024

0.1 Project plan for developing full-stack demo - Flask and SQLite application(fsd-demo):

1 Project Plan

1.1 1. Project Overview

1.1.1 1.1 Project Name

User Management Application

1.1.2 1.2 Project Description

This project involves developing a simple full-stack application using Flask and SQLite to manage user data. The application will allow users to create, read, update, and delete user information through a web interface.

1.1.3 1.3 Objectives

- Develop a web-based application for managing user data.
- Ensure the application meets functional and non-functional requirements.
- Deliver the project within the specified timeline and budget.

1.2 2. Project Scope

1.2.1 2.1 In-Scope

- Development of the Flask application.
- Integration with SQLite database.
- Implementation of CRUD operations.
- User interface design using HTML templates.
- Testing and deployment of the application.

1.2.2 2.2 Out-of-Scope

- Advanced security features beyond basic input validation.
- Performance optimization for high-load scenarios.

1.3 3. Project Deliverables

- **Functional Flask application** with CRUD operations.
- **SQLite database schema** and scripts.
- **HTML templates** for the user interface.
- **Test cases and test results.**
- **Deployment documentation.**

1.4 4. Project Milestones and Timeline

1.4.1 4.1 Milestones

1. **Project Initiation:** Define project scope and objectives.
2. **Requirements Gathering:** Collect and document requirements.
3. **Design:** Create high-level and low-level designs.
4. **Development:** Implement the application.
5. **Testing:** Conduct unit, integration, and functional testing.
6. **Deployment:** Deploy the application to the server.
7. **Project Closure:** Review and finalize project deliverables.

1.4.2 4.2 Timeline

Milestone	Start Date	End Date	Duration
Project Initiation	Jan 1, 2025	Jan 3, 2025	3 days
Requirements Gathering	Jan 4, 2025	Jan 7, 2025	4 days
Design	Jan 8, 2025	Jan 14, 2025	7 days
Development	Jan 15, 2025	Feb 4, 2025	21 days
Testing	Feb 5, 2025	Feb 18, 2025	14 days
Deployment	Feb 19, 2025	Feb 21, 2025	3 days
Project Closure	Feb 22, 2025	Feb 24, 2025	3 days

1.5 5. Project Team

- **Project Manager:** Responsible for overall project management and coordination.
- **Developers:** Responsible for coding and implementation.
- **Testers:** Responsible for testing the application.
- **UI/UX Designer:** Responsible for designing the user interface.
- **Database Administrator:** Responsible for database design and management.

1.6 6. Risk Management

1.6.1 6.1 Potential Risks

- **Resource Availability:** Limited availability of team members.
- **Technical Challenges:** Issues with integrating Flask and SQLite.
- **Timeline Delays:** Delays in meeting project milestones.

1.6.2 6.2 Mitigation Strategies

- **Resource Availability:** Ensure backup resources are available.

- **Technical Challenges:** Conduct regular technical reviews and seek expert advice.
- **Timeline Delays:** Monitor progress closely and adjust the schedule as needed.

1.7 7. Communication Plan

- **Weekly Meetings:** Regular updates and progress reviews.
- **Status Reports:** Weekly status reports to stakeholders.
- **Email Updates:** Regular email updates for important announcements.

1.8 8. Quality Assurance

- **Code Reviews:** Regular code reviews to ensure code quality.
- **Testing:** Comprehensive testing to identify and fix defects.
- **Documentation:** Maintain detailed documentation for all project phases.

1.9 9. Project Closure

- **Review Deliverables:** Ensure all deliverables meet the project requirements.
- **Final Report:** Prepare a final project report summarizing the project outcomes.
- **Lessons Learned:** Document lessons learned and best practices for future projects.

This project plan outlines the key aspects of developing the application, including milestones, timeline, team roles, and risk management.