

Project Plan Document

Team Name: HighFive

Project Name: WorkClaim

Team Members:

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1) Project Scope:

Included:

- **Display existing school facilities through a simple and user-friendly interface.**
- **Allow users to reserve a facility for a specified time interval.**
- **Enable users to view existing reservations and cancel their own reservations.**
- **Allow filtering of school facilities based on various attributes (e.g., size, sound system availability, etc.).**
- **Implement reservation priority based on user roles (Student, Teacher, Assistant, etc.).**

Not Included:

- **This application will not support event planning or calendar-based event management features.**
- **It does not provide navigation and physical location of the facilities. The application does not provide navigation or physical location guidance for facilities. Facility locations are assumed to be known by users.**

2) Project Organization – People (Roles And Responsibilities)

- **Frontend Developers:** Developers who are responsible for designing and implementing the user interface, in this project using PyQt. They ensure the application is user-friendly, visually consistent, and responsive to user interactions.
- **Backend Developers:** Developers who are Responsible for developing the application logic, database integration, and system functionality using Python and PostgreSQL.
- **Testing And Quality Assurance:** Developers who are responsible for testing the application to identify bugs, performance issues and usability problems.
- **Content Analysis :** Developers who ensure that the information that is portrayed on the application is consistent and true.

3) Objectives:

- ***Implement a responsive and fast booking system for facilities.***
- ***Enable users to reserve facilities and cancel reservations.***
- ***Implement a robust Role Based Access Control(RBAC) to manage user roles.***

4)Key Phases and Timeline:

Sprint 1 (04/02/26 - 22/02/26)	Requirements gathering , database schema design , task management , UI/UX Design
Sprint 2 (23/02/26 - 15/03/26)	Implementation of reservation functionality, adding map to the database, Frontend implementation, API Connection
Sprint 3 (16/03/26 - 22/03/26)	Polishing user interface, bug fix
Sprint 4 (23/03/26 - 29/03/26)	Testing and debugging
Sprint 5 (30/03/26 - 03/04/26)	Final improvements and Perfection , Presentation

5) Resource Planning:

- ***Software Tools: Python, PyQt, PostgreSQL***
- ***Project Management: Google docs, Whatsapp and Zoom for communication***
- ***Development Resources: Online documentation, guides and learning materials***
- ***Version Control: GitHub***

6) Risk Management

- **Data bottlenecks resulting in slowdowns and crashes.** Solution: Database performance optimization through efficient schema design, optimized queries, implementation of advanced PostgreSQL indexing techniques
- **Unauthorized Access to reservation modification.** This risks the impartiality and authenticity of the system being jeopardized. Solution: Role based access control (RBAC) for students, assistants, teachers and administrators.
- **Technical difficulties and incapabilities:** Seeking research aid from online platforms, books, other resources and the expertise of teachers and methors.

7) Communication Plan

- **Task management, updates and workflow will be handled via GitHub**
- **Weekly team meetings will be held via Zoom.**
- **Weekly progress reports will be prepared regularly.**
- **Instant communication and collaboration planning within WhatsApp.**

8) Change Management Plan

- **All change requests must be submitted in GitHub Issues system.**
- **Team members will consider each request and decide whether it will be executed or not.**
- **Approved changes will be documented to maintain project consistency.**

9) Budget Plan

- **Development Effort:** 150-200 hours of estimated team work and effort. Each member will contribute equally.
- **Software and Tools:** Free and open-source tools will be used.
- **Database:** A local PostgreSQL database setup will be used.

Tasks	Zafer	Mert Efe	Orhanefe	Hasan Yiğit	Emre Kaan
Project Scope	X	X	X	X	X
Project Organization	X	X	X	X	X
Objectives	X	X		X	X
Key Phases and Timeline			X		X
Resource Planning	X	X		X	
Risk Management		X	X	X	X
Communication Plan	X		X		X

Tasks	Zafer	Mert Efe	Orhanefe	Hasan Yiğit	Emre Kaan
Change Management Plan					X
Budget Plan	X	X	X	X	