

Report

Freelancer Management System – Project Report

1. Project Overview

The Freelancer Management System is a web-based platform designed to connect clients with freelancers in a structured and efficient manner. It supports seamless interaction, job management, and transparent payment processes among clients, freelancers, and administrators.

2. Project Stakeholders

- **Client:** Posts jobs and Browse freelancers.
- **Freelancer:** Applies for jobs and Add Skills.
- **Admin:** Manages users.

3. Key Features

3.1. Third-party Authentication

To simplify access, users log in using third-party services like Google, removing the need for traditional registration and login.

3.2. User Roles and Actions

- **Client:**
 - Create and manage profile
 - Post jobs
 - Search and filter freelancers
 - Hire Freelancer
- **Freelancer:**
 - Log in via third-party authentication
 - Browse and apply for jobs
 - Add Skills
 - View payment status
 - Filter job listings
- **Admin:**
 - Approve or reject users

4. User Stories

4.1. Client User Stories

1. As a client, I want to log in using third-party services so I can access my account securely.
2. As a client, I want to create and edit my profile so I can provide accurate information to freelancers.
3. As a client, I want to post jobs so I can hire freelancers.
4. As a client, I want to search and filter freelancers so I can find the most suitable one.
5. As a client I want to hire Freelancers

4.2. Freelancer User Stories

1. As a freelancer, I want to log in using third-party services so I can access my account.
2. As a freelancer, I want to browse for jobs so I can find work.
3. As a freelancer, I want to filter job listings so I can find suitable jobs quickly.
4. As a freelancer, I want to apply for jobs so I can find work

4.3. Admin User Stories

1. As an admin, I want to be able to delete a user if needed be

5. Project Progress

Updates

- **10 April 2025:** Assigned wireframes and prototype tasks to each member.
- **27 April 2025:** Decided to implement third-party login; planned additional diagrams in line with 4+1 architecture model; began work on sequence and state diagrams; discussed finalizing admin user stories.

6. Design and Architecture

The project follows the **4+1 Architecture View Model**, which includes:

1. **Logical View** Sequence diagrams and class diagrams
2. **Development View:** Component diagram
3. **Process View:** Activity and state diagrams
4. **Physical View:** Deployment diagram

5. **Scenarios (Use Cases):** Use case

7. **Diagrams Completed**

- Use Case Diagram
- Sequence Diagrams (for client, freelancer, and admin)
- State Diagram
- Class Diagram
- Component Diagram
- Activity Diagram
- Deployment Diagram

8. **Tools and Technologies**

🔗 **Front-end: Vanilla HTML, CSS, and JavaScript**

🔗 **Back-end & Database: Firebase Authentication, Firestore, and Firebase Hosting**