SECURE ONLINE MARKETPLACE FOR SHORT-TERM WORK

By: Team SupaWorkers

Our Team

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Advisor

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(Industry Advisor)

Project Abstract

Our project focuses on building a secure online marketplace platform that connects individuals seeking short-term jobs with employers who are offering them.
The platform allows users to register, post jobs, apply for opportunities, and communicate securely.
Security is central to our design, we use encrypted authentication, input validation, and admin monitoring to ensure privacy and reliability.
By leveraging open-source technologies like React, Node.js, and MongoDB, the system promotes scalability, inclusivity, and transparency in employment opportunities.

User Stories

- As a job seeker, I want to create a profile and browse short-term job listings so that I can easily find relevant opportunities.
- As an employer, I want to post and manage job openings so I can connect with qualified workers quickly.
- As a registered user, I want to log in securely so that my personal information stays protected.
- As a system admin, I want to monitor user activity so I can maintain platform safety and integrity.

Design Diagram

System Overview:

- D0: High-level context showing user inputs, system processes, and outputs.
- D1: Subsystems - Frontend, Backend, Database, Security Layer, Notifications.
- D2: Backend modules with APIs and data model (Users, Jobs, Applications, Logs).

Project Constraints

Economic:
We are using open-source tools and free cloud services due to a limited budget, focusing on cost-effective and scalable design.

Security:
Handling sensitive user data requires strong encryption, secure APIs, and frequent testing to prevent cyber risks.

Ethical:
We ensure data privacy, fairness, and transparency while avoiding bias or misuse of user information

Social:
Our platform promotes inclusivity by helping people of different backgrounds access short-term work easily.

Project Progress

Completed:

- Team formation, faculty and industry advisor confirmation
- GitHub repository setup and contract approval
- Design diagrams (D0, D1, D2) and user stories finalized

In Progress:

- Backend API development and authentication module
- Frontend dashboard and UI design

Next Steps:

- Security testing, notifications, and admin dashboard integration

Division of Work

Jubin Shaikh
Project management, security validation, testing, admin console

Krish Patel
Backend development, database integration, API design and documentation

Namra Ankoliya
Frontend design, UI/UX development, API integration

Expected Accomplishments

- Complete authentication and database integration
- Functional dashboards for employers and workers
- Notification and admin monitoring system
- Security testing and documentation finalized

Expo Demo Preview

- Secure login and registration
- Posting and applying for short-term jobs
- Admin panel overview for user monitoring
- End-to-end working prototype presentation

THANK YOU