

Assignment 6 - Milestones, Timeline, and Effort Matrix

Team Name: SUPAWORKERS

Team Members:

- Jubin Shaikh – Project Manager (Security/Testing Lead)
- Namra Ankoliya – Frontend Lead
- Krish Patel – Backend Lead

Milestones List

- Project Setup and Repository Creation (Week 1)
Initialize GitHub repository, add initial documentation (README, User_Stories.md, contracts). Deliverable: Working repo structure with starter files.
- System Architecture & Design Diagrams (Week 2–3)
Complete design diagrams (D0, D1, D2) and validate system architecture with advisor. Deliverable: Approved design diagrams & documented architecture.
- Database Schema Implementation (Week 3–4)
Design and implement schema for Users, Jobs, Applications, and ActivityLogs. Deliverable: MongoDB/Postgres schema, ERD.
- User Authentication & Registration (Week 4–5)
Implement secure user signup/login with OTP, hashed passwords, and JWT sessions. Deliverable: Auth module with working test cases.
- Employer Module – Job Posting (Week 5–6)
Develop APIs for employers to create, update, and delete job listings. Deliverable: Functional employer dashboard + APIs.
- Worker Module – Job Application (Week 6–7)
Build features for workers to search/filter jobs and submit applications. Deliverable: Worker dashboard + application submission system.
- Notification System (Week 7–8)
Integrate email/SMS/in-app notifications for job status and confirmations. Deliverable: Notification service connected to backend.
- Admin Console & Security Validation (Week 8–9)
Implement admin features for monitoring and flagging suspicious accounts. Perform vulnerability tests (SQL injection, XSS). Deliverable: Admin dashboard + security test results.

- **Frontend Integration & Usability Testing (Week 9–10)**
Connect frontend with backend APIs, conduct usability tests. Deliverable: Functional end-to-end system demo.
- **Final Testing, Refinement, and Documentation (Week 10–11)**
Perform QA, fix bugs, refine UI/UX, and prepare user manual. Deliverable: Final working system, user documentation, and report draft.

Table 1. Timeline

Task #	Task Description	Start Date	End Date	Milestone/Deliverable
1	Specify requirements	09/16	09/20	Repo + Requirements Document
2	Design database schema	09/20	09/27	Approved ERD
3	User registration/auth	09/27	10/04	Auth Module
4	Employer job posting	10/04	10/11	Employer Dashboard
5	Worker applications	10/11	10/18	Worker Dashboard
6	Notification system	10/18	10/25	Notification Module
7	Admin console	10/25	11/01	Admin Console
8	Security validation	10/25	11/05	Security Test Results
9	Usability testing	11/05	11/12	Usability Report
10	Final integration + docs	11/12	11/20	Final Report + Demo

Table 2. Effort Matrix

Task #	Task Description	Jubin (PM/Security)	Namra (Frontend)	Krish (Backend)
1	Specify requirements	40%	30%	30%

2	Design DB schema	20%	20%	60%
3	User auth & registration	20%	20%	60%
4	Employer job posting	20%	30%	50%
5	Worker applications	20%	30%	50%
6	Notification system	20%	20%	60%
7	Admin console	50%	20%	30%
8	Security validation	60%	20%	20%
9	Usability testing	30%	50%	20%
10	Final docs & report	40%	30%	30%