

Project Title: Freelance Finder: Discovering Opportunities, Unlocking Potential

- **Team ID:** LTVIP2026TMIDS38083
- **Team Size:** 4 members
- **Team Leader:** Alla Veladri
- **Team Members:** Habeeba Kousar, Madamala Mani Vardhan, Alluri Pranathi Sai

1. INTRODUCTION

1.1 Project Overview

SB Works – FreelanceFinder is a web-based freelancing platform designed to bridge the gap between clients seeking skilled professionals and freelancers looking for meaningful projects. The platform allows clients to post projects, review freelancer profiles, and select suitable candidates based on skill-matching recommendations. Freelancers can browse projects, submit proposals, and communicate with clients directly through the platform. The system also supports admin oversight to ensure secure and reliable interactions between all users.

The platform provides a streamlined workflow, including:

- Project posting and bidding
- Freelancer-job skill-based matching with confidence scoring
- Real-time communication and feedback
- Secure submission and validation of project deliverables

The goal of SB Works is to create a reliable, transparent, and efficient freelancing ecosystem for both clients and freelancers.

1.2 Purpose

The purpose of this project is to:

- Facilitate easy collaboration between clients and freelancers.

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- Provide skill-based matching, helping clients choose the most suitable freelancer.
- Ensure secure and transparent transactions for all parties involved.
- Build a user-friendly platform with a dashboard, notifications, and messaging features.
- Enable freelancers to showcase their skills and manage their portfolio.
- Assist admins in monitoring transactions and maintaining the integrity of the platform.

The project addresses the challenge of finding reliable freelance talent and efficiently managing projects, helping users save time and improve productivity.

2. IDEATION PHASE

2.1 Problem Statement

Clients struggle to find skilled freelancers quickly, while freelancers have difficulty locating projects that match their skills. Existing platforms often lack real-time communication, transparency, and project tracking. SB Works addresses these issues by providing a centralized, reliable, and skill-focused platform.

2.2 Empathy Map Canvas

Freelancers:

- Need to showcase their skills and portfolio
- Want projects that match their expertise
- Face low visibility and delayed client responses
- Actions: Browse projects, submit proposals, communicate with clients

Clients:

- Need reliable freelancers for their projects
- Want faster selection of skilled candidates
- Face time-consuming review of multiple profiles
- Actions: Post projects, review freelancer profiles, select freelancers

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Admin:

- Needs to ensure platform integrity and reliability
- Faces issues with fraudulent activity and miscommunication
- Actions: Monitor transactions, validate projects and users

2.3 Brainstorming

Ideas Generated:

- Skill-based matching algorithm to recommend freelancers to projects
- Dashboard for clients and freelancers to manage projects and profiles
- Secure messaging system for real-time communication
- Admin monitoring system to validate transactions and ensure platform integrity
- Portfolio upload and showcase for freelancers
- Notification system for updates on project status, bids, and deadlines

Selected Features:

- Project posting and bidding system
- Skill-based freelancer recommendations with confidence scoring
- User dashboard for project and profile management
- Messaging and feedback system
- Admin module for monitoring and validation

3. REQUIREMENT ANALYSIS

3.1 Customer Journey

- Freelancer registers and logs in
- Client posts a project with required skills

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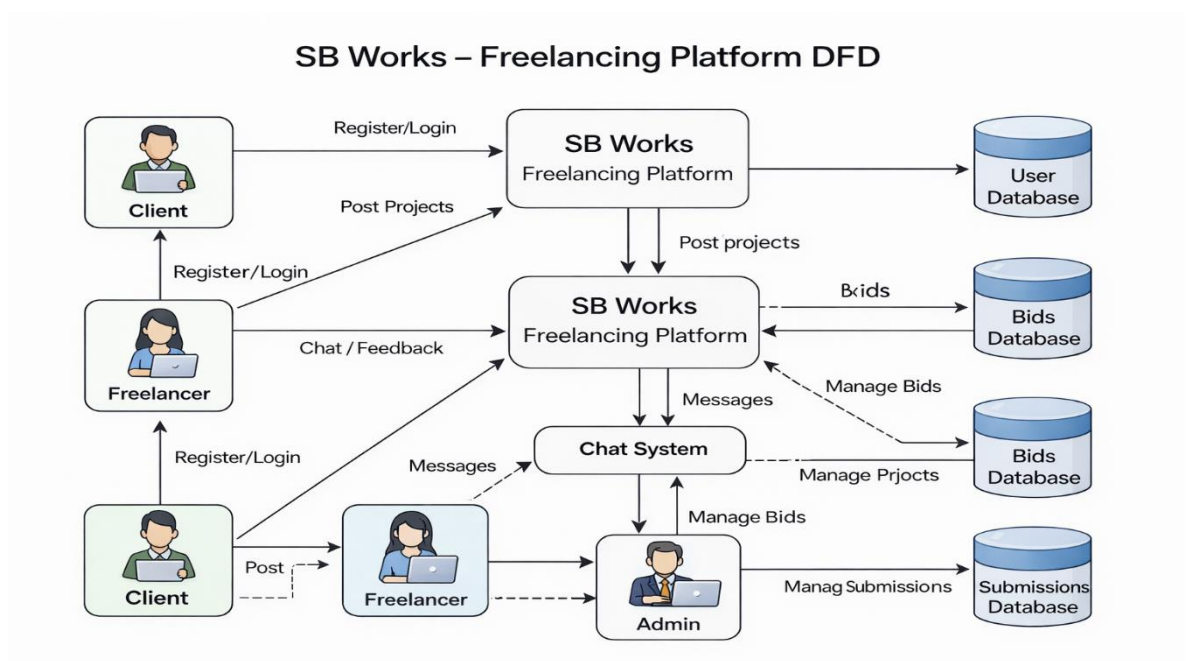
- System recommends freelancers based on skill matching
- Freelancer submits proposal and communicates with client
- Client selects freelancer and project progresses
- Feedback and project completion tracked on dashboard
- Admin monitors and validates all interactions

3.2 Solution Requirements

- Frontend: HTML, CSS, JavaScript, Bootstrap/Material UI
- Backend: Express.js framework for server-side logic
- Database: MongoDB for storing users, projects, and transactions
- Libraries: Axios for API calls, real-time notifications support
- Security: User authentication, admin validation, and data integrity

3.3 Data Flow

- Client submits project → Server stores in database → System matches freelancers → Freelancer submits proposal → Client reviews → Feedback stored → Admin monitors → Dashboard updated



3.4 Technology Stack

Frontend: HTML, CSS, JavaScript, Bootstrap, MaterialUI

Backend: Node.js, Express.js

Database: MongoDB

Libraries & Tools: Axios, RESTful APIs, real-time notifications

4. PROJECT DESIGN

4.1 Problem–Solution Fit

- Clients struggle to find reliable freelancers quickly → **Solution:** Skill-based freelancer recommendation
- Freelancers have difficulty locating relevant projects → **Solution:** Filtered project listing based on skills
- Communication delays between clients and freelancers → **Solution:** Integrated messaging system
- Lack of transparency in project management → **Solution:** User dashboards for tracking projects and feedback
- Admin monitoring needed for platform integrity → **Solution:** Admin module for validation and oversight

4.2 Proposed Solution

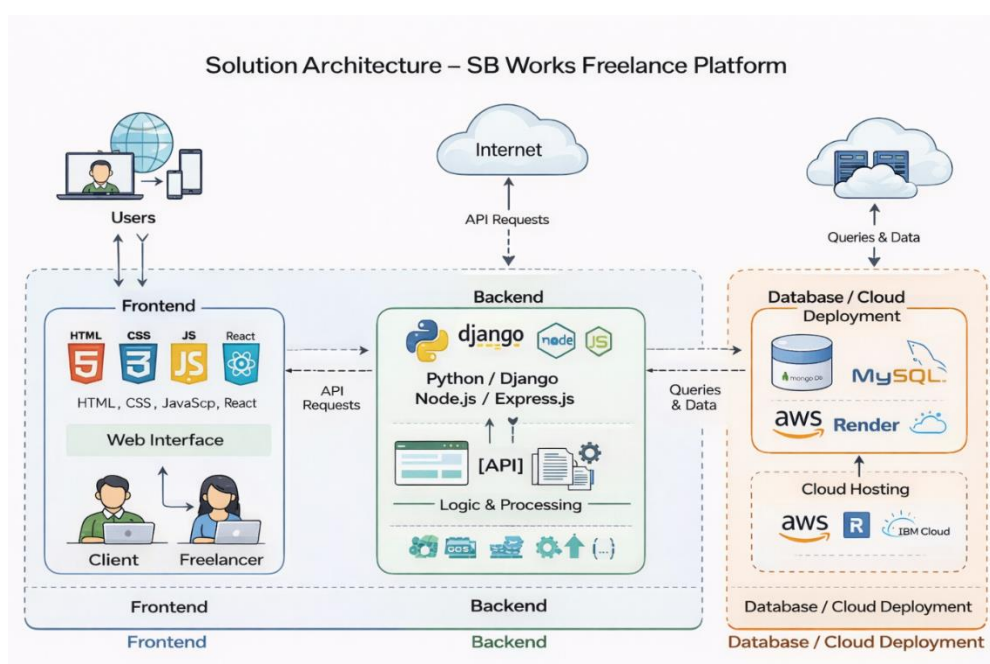
- **Project Posting & Bidding:** Clients can post projects and freelancers can submit proposals
- **Skill-Based Matching:** AI or algorithm recommends freelancers based on project requirements
- **User Dashboard:** Manage projects, proposals, feedback, and profile information
- **Messaging System:** Real-time communication between clients and freelancers
- **Feedback Mechanism:** Clients provide ratings and comments on completed projects

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- **Admin Monitoring:** Admin can track transactions, validate records, and resolve disputes

4.3 Solution Architecture

- **Frontend:** HTML, CSS, JavaScript, Bootstrap/Material UI for user interface
- **Backend:** Node.js with Express.js handles API requests, business logic, and project management
- **Database:** MongoDB stores users, projects, proposals, and feedback
- **Communication:** Axios used for API calls between frontend and backend
- **Workflow:**
 1. Client posts project → stored in MongoDB
 2. System matches freelancers → displays recommendations on dashboard
 3. Freelancer submits proposal → client reviews and selects
 4. Messaging occurs via platform → feedback submitted
 5. Admin monitors and validates transactions



5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

- **Methodology:** Sprint-based Agile workflow for flexible iterations and progress tracking
- **Daily Standups:** Team sync meetings to coordinate tasks and resolve blockers
- **Gantt-style Planning:** Visualize phases, timelines, and task dependencies

Phase-wise Tasks & Timeline

- **Ideation (2 days):** Define features, user needs, and system flow
- **Backend Development (5 days):** Build Express.js API endpoints for project posting, bidding, matching, and admin monitoring
- **Frontend Development (4 days):** Create dashboards, project listing pages, messaging system, and profile pages using HTML, CSS, JS, Bootstrap/Material UI
- **Skill Matching Implementation (2 days):** Integrate algorithm for freelancer-job matching and confidence scoring
- **Testing (2 days):** Validate functionality, communication, dashboard updates, and matching accuracy
- **Documentation (1 day):** Prepare project report, diagrams, and screenshots
- **Deployment (1 day):** Run backend and frontend locally or on hosting environment
- **Buffer (1 day):** Final fixes, bug resolution, and performance optimizations

Roles & Responsibilities

- **Frontend Developer:** Designs UI and implements dashboards
- **Backend Developer:** Creates API endpoints and handles database operations
- **Algorithm Engineer:** Develops skill-based matching system
- **Tester:** Performs functional and performance testing of all modules
- **Project Lead:** Coordinates team, tracks progress, and prepares documentation

6. FUNCTIONAL & PERFORMANCE TESTING

6.1 Functional Testing

- **Freelancer Registration & Login:** Verified account creation, login, and profile update functionality
- **Project Posting & Bidding:** Checked that clients can post projects and freelancers can submit proposals
- **Skill-Based Matching:** Ensured freelancers with matching skills are recommended correctly
- **Messaging System:** Tested real-time chat between clients and freelancers
- **Feedback & Ratings:** Validated submission of feedback and display in dashboard
- **Admin Monitoring:** Verified admin can view and validate transactions, projects, and users

6.2 Performance Testing

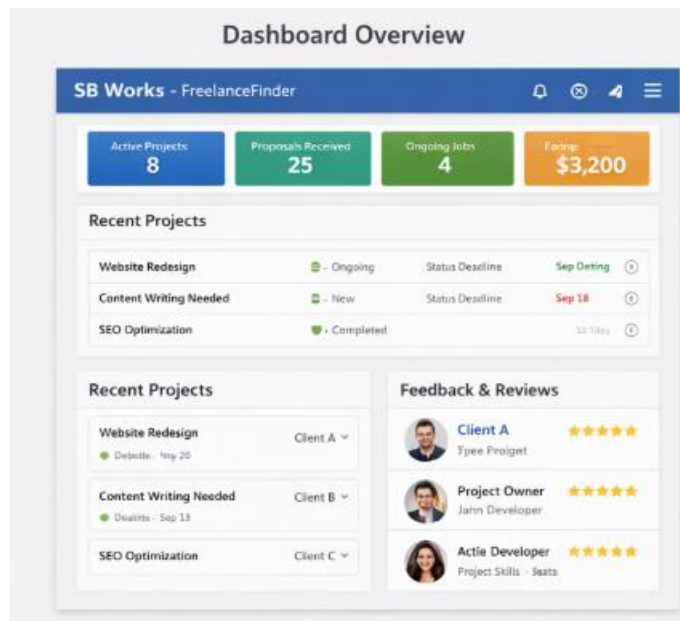
- **Response Time:** Measured API and dashboard response time for project submission and matching (<2 seconds)
- **Matching Accuracy:** Tested confidence-based skill matching (≥90% accuracy for sample data)
- **Dashboard Updates:** Checked live dashboard refresh for project status, proposals, and feedback
- **Load Testing:** Simulated multiple users posting projects and bidding simultaneously to ensure stability
- **Error Handling:** Validated system response for invalid inputs, empty forms, and failed uploads

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7. RESULTS

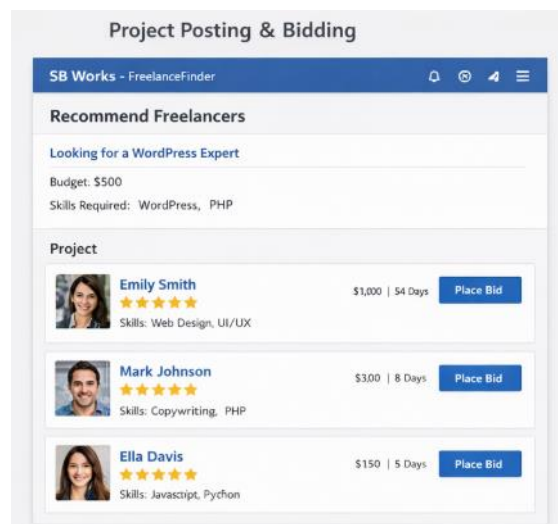
7.1 Output Screenshots

- **Dashboard Overview:**
 - Displays active projects, submitted proposals, freelancer recommendations, and feedback summaries



Project Posting & Bidding Page

- Clients can post new projects and freelancers can view and submit proposals

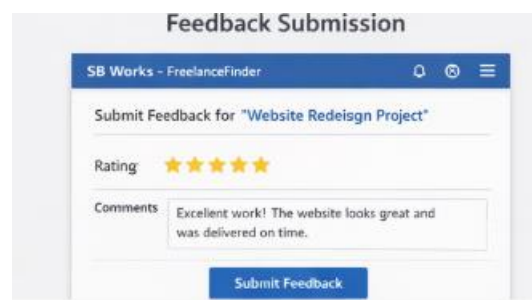


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- **Skill-Based Freelancer Recommendation:**
 - Shows recommended freelancers for a project based on skill match and confidence score
- **Messaging System:**
 - Real-time chat interface between clients and freelancers



- **Feedback Submission:**
 - Clients can rate completed projects and provide comments



8. ADVANTAGES & DISADVANTAGES

Advantages

- Skill-based freelancer recommendation improves project quality
- Real-time messaging system ensures smooth communication
- User dashboards for clients and freelancers enhance transparency
- Admin monitoring ensures platform reliability and integrity
- Easy project posting, bidding, and feedback system

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- Supports portfolio showcase and rating for freelancers

Disadvantages

- Requires stable internet connection for real-time features
- Limited offline functionality
- Admin validation and monitoring may require extra resources
- Matching algorithm depends on accurate skill data input

9. CONCLUSION

- SB Works bridges the gap between clients and freelancers by providing a **centralized and reliable platform**.
- Skill-based recommendations and dashboards enhance **efficiency and transparency**.
- Real-time messaging and feedback systems ensure **smooth collaboration**.
- Admin monitoring ensures **platform integrity** and secure transactions.
- The system empowers freelancers to showcase their skills and helps clients quickly find the right talent.

10. FUTURE SCOPE

- Voice-based freelancer-client communication
- Mobile app for on-the-go project management
- Multi-language support for global users
- AI-enhanced matching with learning from past projects
- Integration with third-party payment systems
- Exportable analytics for clients and freelancers
- Advanced notifications and alert system for project updates

11. APPENDIX:

- **GitHub:** <https://github.com/Pranathi-Sai-Alluri/Freelance-Finder>
- **Demo Link:**
https://drive.google.com/file/d/1CrK_Z2cPUxD3TI2UVzCSbIKNmubZQi2v/view?usp=sharing