FreelanceFinder: Discovering Opportunities, Unlocking Potential

Talatam Likhitha

Vasamsetti Balu

Shaik Sandhani Basheer

Sambhara Vagdevi

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In today's fast-paced digital world, freelance work has become a prominent method of employment. Platforms that effectively connect clients with freelancers are essential to support this ecosystem. SB Works is designed to meet this need by offering a clean, user-friendly interface for managing freelance jobs, proposals, communication, and submissions. Built using the MERN stack (MongoDB, Express, React, Node.js), SB Works offers real-time communication using Socket.IO, a robust proposal management system, and complete project tracking functionality from creation to completion.

Project Objectives :

→ Allow clients to post projects and receive proposals

→ Let freelancers browse and apply to open jobs

→ Enable real-time chat between clients and assigned freelancers

→ Allow freelancers to submit project work

→ Let clients approve or reject submissions

→ Provide an admin panel to monitor overall activity

System Architecture:

♦ Frontend: React.js

♦ Backend: Node.js with Express.js

♦ Database: MongoDB (Mongoose ORM)

♦ Real-time Communication: Socket.IO

♦ State Management & Routing: React Context API, React Router

Key Features

Client Features

- Post new freelance projects

- View all proposals for their projects

- Accept or reject proposals

- Real-time chat with assigned freelancers

- View and manage project submissions

Freelancer Features

- Browse all available projects

- Send proposals with bid, estimated time, and description

- Chat with client (enabled only when assigned)

- Submit work (link, manual, description)

- Track submission approval

Admin Panel

- Dashboard showing total users, projects, applications, and completed projects

- View all registered freelancers and clients

Workflow Summary:

The SB Works freelance platform enables a seamless collaboration between clients and freelancers. Clients begin by registering or logging into the system and posting their projects with specific requirements such as skills, budget, and description. Freelancers explore these listings and submit detailed proposals including their bid amount, estimated completion time, and proposal description. Clients can view all incoming applications and choose to accept or reject them based on suitability. Once a proposal is accepted, the project is assigned to the freelancer and a real-time chat feature is activated, allowing direct communication between the two parties. Freelancers can then submit their completed work, including project links and manuals. The client reviews the submission and decides whether to approve or reject it. If approved, the project is marked as completed; if rejected, the freelancer is permitted to resubmit. Throughout this process, the admin dashboard provides a centralized interface for overseeing all user activity, project progress, and platform engagement.

Technologies Used:

Frontend (Client & Freelancer Portal)

React.js – For building dynamic and component-based user interfaces.

Axios – For making HTTP requests to the backend.

React Router DOM – For navigation and routing between pages.

Socket.IO Client – For real-time communication (chat feature).

Bootstrap / Custom CSS – For responsive and styled UI elements.

Backend (Server)

Node.js – JavaScript runtime environment to run the server.

Express.js – Web framework used for building RESTful APIs.

Socket.IO – For enabling real-time, bidirectional communication for chat.

Database

MongoDB – NoSQL database to store user data, projects, chats, proposals, and submissions.

Mongoose – ODM library to define schemas and interact with MongoDB efficiently.

Conclusion:

This freelance project platform streamlines the collaboration between clients and freelancers by enabling project posting, bidding, real-time chat, and secure submission workflows. It ensures transparency and communication through a built-in chat system with assignment-based access. Clients can manage proposals, approve work, and track progress seamlessly. Freelancers benefit from an organized dashboard to apply, communicate, and submit deliverables efficiently. Overall, the system enhances productivity, accountability, and project lifecycle management in a user-friendly way.