

# Final Project Report

## Project Title: SB Works – Freelancing Platform

**Category:** Full Stack Development

**Technology Stack:** HTML, CSS, JavaScript, Bootstrap, MongoDB, Express.js, React.js, Node.js

## Project Overview

**SB Works** is a modern freelancing platform built on the MERN stack, designed to streamline interactions between clients and freelancers. It provides a seamless experience for project posting, bidding, communication, and delivery—all within one integrated system.

With a focus on efficiency, transparency, and user-friendliness, SB Works empowers clients to find the perfect freelancer for their needs while helping freelancers grow their careers with ease.

## Technical Architecture

SB Works follows a **client-server architecture**, leveraging the following technologies:

### Frontend (Client Side):

- **Framework:** React.js
- **UI Libraries:** Bootstrap & Material UI
- **API Communication:** Axios for RESTful API calls
- **Features:** Responsive UI, intuitive navigation, real-time notifications, integrated chat for client-freelancer communication

### Backend (Server Side):

- **Framework:** Node.js with Express.js
- **Authentication:** JWT-based user authentication
- **API Design:** RESTful APIs for user, project, bid, chat, and admin functionalities

### Database:

- **Database Used:** MongoDB
- **Structure:** Stores user profiles, project listings, proposals, messages, reviews, and admin data in scalable collections

### **Key Integration:**

- **Real-time Updates:** WebSockets (optional enhancement)
- **File Uploads:** Stored using GridFS / third-party services (if implemented)

## **Core Features**

### **Client Features:**

- Post projects with detailed descriptions
- Browse freelancer profiles and portfolios
- Review bids and select suitable candidates
- Real-time messaging and file sharing
- Submit feedback and ratings after project completion

### **Freelancer Features:**

- View and bid on relevant projects
- Create a comprehensive profile with portfolio uploads
- Communicate with clients directly within the platform
- Submit deliverables and receive reviews
- Track completed projects and earnings

### **Admin Features:**

- Monitor platform activity and user behavior
- Approve/flag projects or user profiles
- Ensure compliance, resolve disputes
- Manage data and system configurations

# Scenario-Based Case Study

## Meet Sarah – A Graphic Designer

**Sarah**, a recent graphic design graduate, discovers SB Works and explores projects. She finds a logo redesign opportunity from a bakery called *Sugar Rush*. Using the platform:

- Sarah **bids confidently** after reviewing project details and past marketing materials.
- The bakery selects her proposal after reviewing her portfolio.
- Using SB Works' **integrated chat**, they collaborate smoothly.
- Sarah **submits the final design**, receives positive feedback, and her profile gains traction.
- Over time, she establishes a thriving freelance career on the platform.

This case demonstrates SB Works' ability to facilitate professional connections and long-term career growth.

## Impact & Benefits

- **For Clients:** Efficient talent acquisition, smooth workflow, secure communication, and trusted professionals.
- **For Freelancers:** Exposure, fair competition, portfolio development, and career advancement.
- **For Admins:** Platform management with transparency and user oversight for quality control.

## Future Enhancements

- Payment gateway integration (Razor pay/Stripe)
- AI-based freelancer recommendations
- Advanced analytics dashboard
- Video call integration
- Progressive Web App (PWA) support for mobile

## Project Deliverables

Deliverable	Description
Source Code	Complete frontend and backend code with documentation
README.md	Contains setup instructions, features, and usage
Presentation Slides	Covers overview, architecture, features, and demo highlights
Project Demo Video	Showcases end-to-end flow of the platform
Project Report	(This document) Overview, case study, architecture, and conclusion

## Conclusion

SB Works revolutionizes the way freelancers and clients interact. By combining a robust MERN stack architecture with real-world usability features, it creates a powerful platform where creativity, professionalism, and collaboration thrive. It is not just a freelancing app—it is a launchpad for talent and innovation.

# final code:-

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>SB Works - Freelance Platform</title>
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
```

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">
```

```
<style>
```

```
:root {
```

```
  --primary-color: #4361ee;
```

```
  --secondary-color: #3f37c9;
```

```
  --accent-color: #4cc9f0;
```

```
  --dark-color: #1a1a2e;
```

```
  --light-color: #f8f9fa;
```

```
}
```

```
body {
```

```
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
```

```
  background-color: #f5f7fa;
```

```
}
```

```
.navbar-brand {
```

```
  font-weight: 700;
```

```
  color: var(--primary-color) !important;
```

```
}
```

```
.hero-section {
```

```
  background: linear-gradient(135deg, var(--primary-color), var(--secondary-color));
```

```
  color: white;
```

```
  padding: 5rem 0;
```

```
}
```

```
.project-card {
```

```
    transition: transform 0.3s, box-shadow 0.3s;

    border-radius: 10px;

    overflow: hidden;

    margin-bottom: 20px;

    border: none;
}
```

```
.project-card:hover {

    transform: translateY(-5px);

    box-shadow: 0 10px 20px rgba(0, 0, 0, 0.1);
}
```

```
.badge-tag {

    background-color: var(--accent-color);

    color: white;
}
```

```
.dashboard-card {

    border-left: 4px solid var(--primary-color);
}
```

```
.chat-bubble {

    maximum-width: 70%;

    border-radius: 15px;

    padding: 10px 15px;

    margin-bottom: 10px;
}
```

```
.received {  
  
  background-color: #e9ecef;  
  
  align-self: flex-start;  
  
}
```

```
.sent {  
  
  background-color: var(--primary-color);  
  
  color: white;  
  
  align-self: flex-end;  
  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<!-- Navigation Bar -->
```

```
<nav class="navbar navbar-expand-lg navbar-light bg-white shadow-sm">
```

```
<div class="container">
```

```
<a class="navbar-brand" href="#">
```

```
<i class="fas fa-briefcase me-2"></i>
```

```
SB Works
```

```
</a>
```

```
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">
```

```
<span class="navbar-toggler-icon"></span>
```

```
</button>
```

```
<div class="collapse navbar-collapse" id="navbarNav">
```

```
<ul class="navbar-nav me-auto">
```

```
<li class="nav-item">
```

```
<a class="nav-link active" href="#">Projects</a>

</li>

<li class="nav-item">

  <a class="nav-link" href="#">Freelancers</a>

</li>

<li class="nav-item">

  <a class="nav-link" href="#">How It Works</a>

</li>

</ul>

<div class="d-flex">

  <button class="btn btn-outline-primary me-2">Login</button>

  <button class="btn btn-primary">Sign Up</button>

</div>

</div>

</div>

</nav>

<!-- Hero Section -->

<section class="hero-section">

  <div class="container text-center">

    <h1 class="display-4 fw-bold mb-4">Find the perfect freelance services for your business</h1>

    <p class="lead mb-5">Connect with skilled professionals ready to bring your ideas to life</p>

    <div class="row justify-content-center">

      <div class="col-md-8">

        <div class="input-group mb-3">

          <input type="text" class="form-control form-control-lg" placeholder="What service are you looking for?">

          <button class="btn btn-light btn-lg" type="button">
```



```
      <i class="fas fa-search"></i> Search
```

```
    </button>
```

```
  </div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</section>
```

```
<!-- Projects Section -->
```

```
<section class="py-5">
```

```
  <div class="container">
```

```
    <div class="d-flex justify-content-between align-items-center mb-4">
```

```
      <h2>Featured Projects</h2>
```

```
      <a href="#" class="btn btn-link">View all projects</a>
```

```
    </div>
```

```
<div class="row">
```

```
  <!-- Project Card 1 -->
```

```
  <div class="col-md-4">
```

```
    <div class="card project-card h-100">
```

```
      <div class="card-body">
```

```
        <div class="d-flex justify-content-between mb-3">
```

```
          <span class="badge bg-success">Open</span>
```

```
          <small class="text-muted">Posted 2 days ago</small>
```

```
        </div>
```

```
        <h5 class="card-title">Logo Design for Bakery</h5>
```

```
        <p class="card-text">Looking for a modern, minimalist logo for our new artisanal bakery "Sugar Rush". Should include bread and wheat elements with...</p>
```

```
<div class="mb-3">

  <span class="badge badge-tag me-1">Graphic Design</span>

  <span class="badge badge-tag me-1">Logo Design</span>

</div>

<div class="d-flex justify-content-between align-items-center">

  <h6 class="mb-0">$250-750 USD</h6>

  <span class="text-muted">5 bids</span>

</div>

</div>

</div>

</div>
```

```
<!-- Project Card 2 -->

<div class="col-md-4">

  <div class="card project-card h-100">

    <div class="card-body">

      <div class="d-flex justify-content-between mb-3">

        <span class="badge bg-success">Open</span>

        <small class="text-muted">Posted 1 day ago</small>

      </div>

      <h5 class="card-title">E-commerce Website Development</h5>

      <p class="card-text">Need a full-stack developer to build a MERN stack e-commerce platform with payment integration and admin dashboard...</p>

      <div class="mb-3">

        <span class="badge badge-tag me-1">Web Development</span>

        <span class="badge badge-tag me-1">MERN Stack</span>

        <span class="badge badge-tag">E-commerce</span>

      </div>

    </div>

  </div>

</div>
```

```
<div class="d-flex justify-content-between align-items-center">

  <h6 class="mb-0">$2,000-5,000 USD</h6>

  <span class="text-muted">12 bids</span>

</div>

</div>

</div>

</div>
```

```
<!-- Project Card 3 -->

<div class="col-md-4">

  <div class="card project-card h-100">

    <div class="card-body">

      <div class="d-flex justify-content-between mb-3">

        <span class="badge bg-warning">In Progress</span>

        <small class="text-muted">Posted 1 week ago</small>

      </div>

      <h5 class="card-title">Mobile App UI/UX Design</h5>

      <p class="card-text">Seeking a talented designer to create wireframes and high-fidelity mockups for a fitness tracking mobile application...</p>

      <div class="mb-3">

        <span class="badge badge-tag me-1">UI/UX Design</span>

        <span class="badge badge-tag me-1">Figma</span>

        <span class="badge badge-tag">Mobile App</span>

      </div>

      <div class="d-flex justify-content-between align-items-center">

        <h6 class="mb-0">$1,500-3,000 USD</h6>

        <span class="text-muted">HIRED</span>

      </div>

    </div>

  </div>

</div>
```

```
        </div>

    </div>

</div>

</div>

</div>

</section>


<!-- Dashboard Preview (Visible after login) -->

<section class="py-5 bg-light">

    <div class="container">

        <h2 class="mb-4">Your Dashboard</h2>


        <div class="row">

            <!-- Left Column -->

            <div class="col-md-4">

                <!-- Profile Card -->

                <div class="card mb-4">

                    <div class="card-body text-center">

                        

                        <h4>Sarah Johnson</h4>

                        <p class="text-muted">Graphic Designer</p>

                        <div class="mb-3">

                            <span class="badge bg-primary">Top Rated</span>

                            <span class="badge bg-success">Response 2h</span>

                        </div>

                        <div>

                            <i class="fas fa-star text-warning"></i>

                        </div>

                    </div>

                </div>

            </div>

        </div>

    </div>

</section>
```

```
<i class="fas fa-star text-warning"></i>

<i class="fas fa-star text-warning"></i>

<i class="fas fa-star text-warning"></i>

<i class="fas fa-star-half-alt text-warning"></i>

<span class="text-muted ms-1">4.7 (26 reviews)</span>

</div>

<hr>

<p><strong>Skills:</strong> Logo Design, Branding, Adobe Illustrator, Photoshop</p>

</div>

</div>
```

```
<!-- Stats Card -->

<div class="card">

  <div class="card-body">

    <h5 class="card-title">Your Stats</h5>

    <ul class="list-group list-group-flush">

      <li class="list-group-item d-flex justify-content-between align-items-center">

        Active Projects

        <span class="badge bg-primary rounded-pill">3</span>

      </li>

      <li class="list-group-item d-flex justify-content-between align-items-center">

        Completed Projects

        <span class="badge bg-primary rounded-pill">12</span>

      </li>

      <li class="list-group-item d-flex justify-content-between align-items-center">

        Total Earnings

        <span class="badge bg-primary rounded-pill">$8,450</span>

      </li>

    </ul>

  </div>

</div>
```

```
</li>

<li class="list-group-item d-flex justify-content-between align-items-center">

    Messages

    <span class="badge bg-primary rounded-pill">5</span>

</li>

</ul>

</div>

</div>

</div>
```

```
<!-- Right Column -->

<div class="col-md-8">

    <!-- Projects Tab -->

    <div class="card mb-4 dashboard-card">

        <div class="card-header bg-white">

            <ul class="nav nav-tabs card-header-tabs">

                <li class="nav-item">

                    <a class="nav-link active" href="#">Your Projects</a>

                </li>

                <li class="nav-item">

                    <a class="nav-link" href="#">Bids & Proposals</a>

                </li>

                <li class="nav-item">

                    <a class="nav-link" href="#">Work in Progress</a>

                </li>

            </ul>

        </div>

    </div>
```

```
<div class="card-body">

  <div class="d-flex justify-content-between align-items-center mb-3">

    <h5 class="mb-0">Active Projects</h5>

    <button class="btn btn-sm btn-primary">

      <i class="fas fa-plus me-1"></i> New Project

    </button>

  </div>

  <!-- Active Project Item -->

  <div class="d-flex justify-content-between align-items-center p-3 border-bottom">

    <div>

      <h6>Logo Design for Sugar Rush Bakery</h6>

      <small class="text-muted">Client: Michael Chen • Due in 3 days</small>

    </div>

    <div>

      <span class="badge bg-warning text-dark">In Progress</span>

    </div>

  </div>

  <!-- Active Project Item -->

  <div class="d-flex justify-content-between align-items-center p-3 border-bottom">

    <div>

      <h6>Social Media Branding Package</h6>

      <small class="text-muted">Client: Green Organic • Due in 1 week</small>

    </div>

    <div>

      <span class="badge bg-warning text-dark">In Progress</span>

    </div>

  </div>

</div>
```

</div>

</div>

</div>

</div>

<!-- Messages Preview -->

<div class="card dashboard-card">

<div class="card-header bg-white">

<h5 class="mb-0">Recent Messages</h5>

</div>

<div class="card-body p-0">

<!-- Message Item -->

<a href="#" class="d-flex p-3 border-bottom text-decoration-none text-dark align-items-center">



<div class="flex-grow-1">

<div class="d-flex justify-content-between">

<h6 class="mb-0">Michael Chen</h6>

<small class="text-muted">2h ago</small>

</div>

<p class="mb-0 text-muted">I really like the logo concepts! Could we try...</p>

</div>

</a>

<!-- Message Item -->

<a href="#" class="d-flex p-3 border-bottom text-decoration-none text-dark align-items-center">







```
<i class="far fa-bookmark me-1"></i> Save

</button>

</div>
```

```
<h2>Logo Design for Sugar Rush Bakery</h2>
```

```
<p class="text-muted mb-4">Client: Michael Chen • Budget: $250 - $750 USD</p>
```

```
<!-- Project Description -->
```

```
<div class="card mb-4">
```

```
<div class="card-body">
```

```
<h5 class="card-title">Project Description</h5>
```

```
<p>We are opening a new artisanal bakery called "Sugar Rush" specializing in European-style pastries and sourdough bread. We need a logo that captures our brand identity - high-quality, traditional baking with a modern twist.</p>
```

```
<h6 class="mt-4">Requirements:</h6>
```

```
<ul>
```

```
<li>Should include bread/wheat elements but not look clichéd</li>
```

```
<li>Modern, clean design that works well on signage and packaging</li>
```

```
<li>Color scheme should include warm tones (browns, golds, etc.)</li>
```

```
<li>Must include both full logo and icon-only versions</li>
```

```
</ul>
```

```
<h6 class="mt-4">Deliverables:</h6>
```

```
<ul>
```

```
<li>Vector files (AI, EPS)</li>
```

```
<li>Transparent PNGs in multiple sizes</li>
```

```
<li>Brand color palette</li>
```

```
</ul>
```

</div>

</div>

<!-- Skills Required -->

<div class="mb-4">

<h5>Skills Required</h5>

<div>

<span class="badge bg-primary me-1">Logo Design</span>

<span class="badge bg-primary me-1">Brand Identity</span>

<span class="badge bg-primary me-1">Adobe Illustrator</span>

<span class="badge bg-primary">Typography</span>

</div>

</div>

<!-- Activity -->

<div>

<h5>Activity on this Job</h5>

<p><strong>Proposals:</strong> 5-10</p>

<p><strong>Last viewed by client:</strong> 1 hour ago</p>

</div>

</div>

<!-- Bidding Section -->

<div class="col-lg-4">

<div class="card sticky-top" style="top: 20px;">

<div class="card-body">

<h5 class="card-title">Submit a Proposal</h5>

```
<form>

  <div class="mb-3">

    <label class="form-label">Your Bid (USD)</label>

    <div class="input-group">

      <span class="input-group-text">$</span>

      <input type="number" class="form-control" value="500" min="250" max="750">

    </div>

  </div>

  <div class="mb-3">

    <label class="form-label">Estimated Delivery Time</label>

    <select class="form-select">

      <option>3 days</option>

      <option selected>5 days</option>

      <option>1 week</option>

      <option>2 weeks</option>

    </select>

  </div>

  <div class="mb-3">

    <label class="form-label">Cover Letter</label>

    <textarea class="form-control" rows="6">Hello Michael,
```

I am a graphic designer specializing in food and beverage branding. I've attached some samples of bakery logos I've created. My approach would be to create 3 initial concepts based on your brief, then refine the selected direction.

I can deliver the final files in all required formats and also provide some basic brand guidelines if needed.

Looking forward to working with you!</textarea>

</div>

<div class="d-grid">

<button class="btn btn-primary">

<i class="far fa-paper-plane me-1"></i> Submit Proposal

</button>

</div>

</form>

</div>

</div>

</div>

</div>

</div>

</section>

<!-- Messaging Preview -->

<section class="py-5 bg-light">

<div class="container">

<div class="row">

<div class="col-md-4">

<div class="card">

<div class="card-header bg-white">

<h5 class="mb-0">Conversations</h5>

</div>

<div class="card-body p-0">

<!-- Conversation Item -->

```
<a href="#" class="d-flex p-3 border-bottom text-decoration-none text-dark align-items-center bg-light">

  

  <div class="flex-grow-1">

    <div class="d-flex justify-content-between">

      <h6 class="mb-0">Michael Chen</h6>

      <small class="text-muted">Today</small>

    </div>

    <p class="mb-0 text-muted">Logo Design for Sugar Rush</p>

  </div>

</a>

<!-- Conversation Item -->

<a href="#" class="d-flex p-3 border-bottom text-decoration-none text-dark align-items-center">

  

  <div class="flex-grow-1">

    <div class="d-flex justify-content-between">

      <h6 class="mb-0">Emily Davis</h6>

      <small class="text-muted">Yesterday</small>

    </div>

    <p class="mb-0 text-muted">Wedding Invitation Design</p>

  </div>

</a>

</div>

</div>

</div>
```

```
<div class="col-md-8">

  <div class="card">

    <div class="card-header bg-white d-flex justify-content-between align-items-center">

      <div class="d-flex align-items-center">

        

        <div>

          <h5 class="mb-0">Michael Chen</h5>

          <small class="text-muted">Logo Design for Sugar Rush</small>

        </div>

      </div>

    </div>

    <div>

      <button class="btn btn-sm btn-outline-secondary">

        <i class="fas fa-ellipsis-h"></i>

      </button>

    </div>

  </div>

  <div class="card-body" style="height: 400px; overflow-y: auto; background-color: #f8f9fa;">

    <!-- Message Received -->

    <div class="d-flex flex-column mb-3">

      <div class="chat-bubble received">

        <p>Hi Sarah, thanks for your proposal. I really like the samples you shared. Could you incorporate more of a
French bakery aesthetic in the concepts?</p>

        <small class="text-muted">Michael Chen, 10:32 AM</small>

      </div>

    </div>

    <!-- Message Sent -->
```

```
<div class="d-flex flex-column mb-3">
```

```
<div class="chat-bubble sent">
```

```
<p>Absolutely, Michael! I can add some French patisserie elements while keeping the modern minimalist style.  
Would you like me to include a croissant or baguette icon, or focus more on the typography?</p>
```

```
<small class="text-muted">You, 10:45 AM</small>
```

```
</div>
```

```
</div>
```

```
<!-- Message Received -->
```

```
<div class="d-flex flex-column mb-3">
```

```
<div class="chat-bubble received">
```

```
<p>I think a subtle baguette element would work well, maybe integrated into the letterforms. Our specialty is  
sourdough though, so let's not make it too "French" - maybe just a nod to the style.</p>
```

```
<small class="text-muted">Michael Chen, 10:50 AM</small>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="card-footer bg-white">
```

```
<div class="input-group">
```

```
<input type="text" class="form-control" placeholder="Type your message...">
```

```
<button class="btn btn-primary">
```

```
<i class="far fa-paper-plane"></i>
```

```
</button>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```



</div>

</section>

<footer class="bg-dark text-white py-4">

<div class="container">

<div class="row">

<div class="col-md-4 mb-3">

<h5>SB Works</h5>

<p>The premier freelancing platform connecting businesses with top talent across the globe.</p>

</div>

<div class="col-md-2 mb-3">

<h5>For Clients</h5>

<ul class="list-unstyled">

<li><a href="#" class="text-white">How to Hire</a></li>

<li><a href="#" class="text-white">Talent Marketplace</a></li>

<li><a href="#" class="text-white">Project Catalog</a></li>

</ul>

</div>

<div class="col-md-2 mb-3">

<h5>For Freelancers</h5>

<ul class="list-unstyled">

<li><a href="#" class="text-white">How to Find Work</a></li>

<li><a href="#" class="text-white">Selling Projects</a></li>

<li><a href="#" class="text-white">Membership</a></li>

</ul>

</div>

<div class="col-md-4 mb-3">

<h5>Get in Touch</h5>

<div class="mb-3">

<a href="#" class="text-white me-2"><i class="fab fa-facebook-f"></i></a>

<a href="#" class="text-white me-2"><i class="fab fa-twitter"></i></a>

<a href="#" class="text-white me-2"><i class="fab fa-instagram"></i></a>

<a href="#" class="text-white"><i class="fab fa-linkedin-in"></i></a>

</div>

<p>support@sbworks.com</p>

</div>

</div>

<hr>

<div class="text-center">

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</div>

</div>

</footer>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>

</body>

</html>