Project Documentation

Insight Stream: Navigate the news landscape

1. Introduction

- **Project Title: Insight Stream: Navigate the news landscape**
- **Team ID** :NM2025TMID42370
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2. Project Overview

- **Purpose:** SB Works connects clients and freelancers through project postings, bidding, and real-time communication.
- **Features:**
  - Project posting and bidding
  - Secure chat system
  - Feedback and review system
  - Admin control panel

3. Architecture

- **Frontend:** React.js with Bootstrap and Material UI
- **Backend:** Node.js and Express.js managing server logic and API endpoints
- **Database:** MongoDB stores user data, project information, applications, and chat messages

4. Setup Instructions

- **Prerequisites:**
  - Node.js
  - MongoDB
  - Git
  - React.js
  - Express.js – Mongoose – Visual Studio Code
- **Installation Steps:**

Clone the repository git clone

Install client dependencies cd client npm install

Install server dependencies cd

../server npm install

5. Folder Structure

SB-Works/

|-- client/ # React frontend

|__components/ L__ pages/

|__ server/ # Node.js backend

|__routes/

|__ models/

|__ controllers/

6. Running the Application

- **Frontend:**

cd client npm start • **Backend:**

cd server npm start

- **Access:** Visit http://localhost:3000

7. API Documentation

- **User:**
  - /api/user/register
  - /api/user/login
- **Projects:**
  - /api/projects/create
  - /api/projects/:id • **Applications:** /api/apply
- **Chats:**
  - /api/chat/send – /api/chat/:userId

8. Authentication

- JWT-based authentication for secure login
- Middleware protects private routes

9. User Interface

- Landing Page
- Freelancer Dashboard
- Admin Panel
- Project Details Page

10. Testing

- Manual testing during milestones
- Tools: Postman, Chrome Dev Tools