**Project Documentation**

**Project Title: InsightStream**

# 1. Introduction

* Project Title: InsightStream
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# 2. Project Overview

* Purpose: InsightStream provides seamless data insights by connecting analytics tools with visualization dashboards.
* Features:
* – Data Integration
* – Real-time Dashboard
* – Custom Reports
* – User Management & Access Control

# 3. Architecture

* Frontend: React.js with Tailwind CSS
* Backend: Node.js and Express.js managing API endpoints
* Database: MongoDB stores analytics data and user information

# 4. Setup Instructions

* Prerequisites: Node.js, MongoDB, Git, React.js, Express.js, 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

* InsightStream/
* |-- client/ # React frontend
* | |\_\_ components/
* | |\_\_ 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
* Reports:
* – /api/reports/generate
* – /api/reports/:id

# 8. Authentication

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

# 9. User Interface

* Landing Page
* Analytics Dashboard
* Admin Panel
* Report Viewer

# 10. Testing

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

# 11.ScreenShots or Demo

https://drive.google.com/file/d/12SlJcbphi3Js5rJuEDrXMg10un5hdPqf/view?usp=sharing