Project Documentation

1. Project Title

- InsightStream: Navigate the News Landscape

2. Introduction

  Project Title: InsightStream
- Team ID: NM2025TMID40475
- Team Size: 4
  Team Leader:
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3. Project Overview

- Purpose: InsightStream helps users navigate the news landscape effectively.
- Features:
- Personalized news feed
- Category-based filtering
- Real-time updates
- User-friendly interface

4. Architecture

- Frontend: React.js with Bootstrap and Material UI
- Backend: Node.js and Express.js
- Database: MongoDB

5. Setup Instructions

- Download Node.js LTS version from https://nodejs.org/en/download/
- Install Node.js using the appropriate installer (Windows .msi or macOS .pkg).
- Open Windows PowerShell as Administrator.
- Type: set-executionPolicy unrestricted → Press Enter → Type Y → Press Enter.
- From SmartInternz portal → Go to Projects → Access Resources → Guided Projects → Workspace.
- Download the code folder from the provided link.
- Extract the downloaded ZIP file.
- Open the extracted folder in Visual Studio Code.
- Open a new terminal in VS Code.
- Run: npm install (wait for dependencies to install).

- Run: npm start (to launch the application)
- Access the app at http://localhost:3000.

6. Folder Structure

- InsightStream/
- |-- client/ # React frontend
- |-- server/ # Node.js backend
- |-- routes/
- |-- models/

|-- controllers/

7. Running the Application

- Frontend: cd client → npm start
- Backend: cd server → npm
- start Access at:
  http://localhost:3000

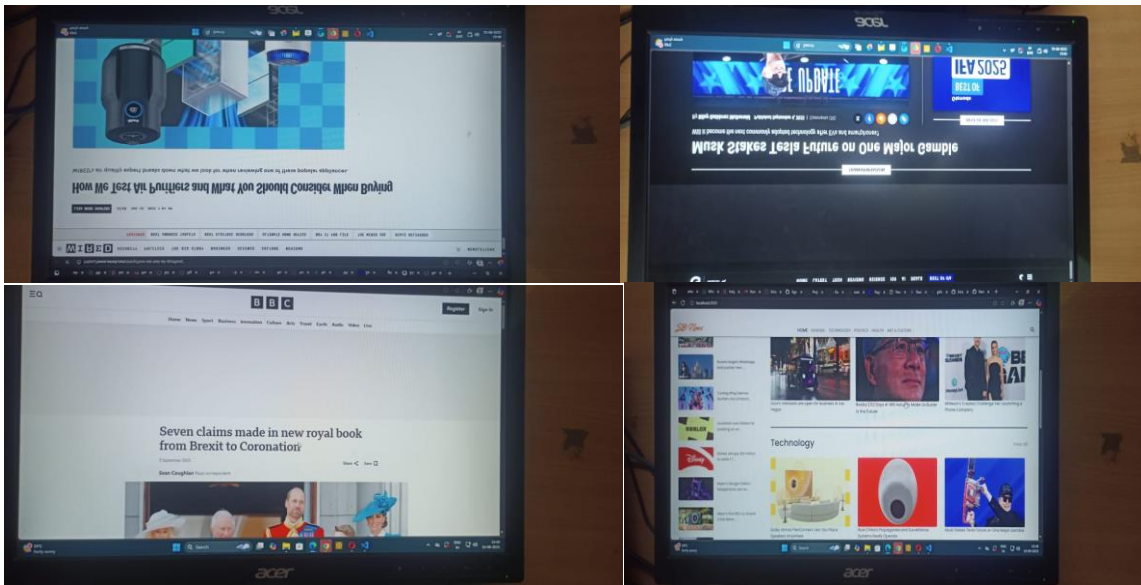8. Authentication

- JWT-based authentication (if applicable).

9. User Interface

- Landing Page
- User Dashboard
- Admin Panel
- News Details Page

10. Testing

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

11. Screenshots or Demo

12. Known Issues

- Occasional delays in real-time updates under heavy server load.
- Minor UI inconsistencies across different devices and browsers.
- Chat message delivery might be slow when multiple users are online simultaneously.
- Some users experience login failures due to token expiration.
- Feedback submission occasionally fails due to network interruptions.
- Admin panel controls may not reflect changes immediately after updates.

13. Future Enhancements

- Mobile app support
- AI-based personalized recommendations
- Multilingual news support