

PropEase - Real Estate Management System

Weekly Progress Report – Sprint 1

(15 September – 21 September 2025)

Summary of Tasks Completed

This sprint marked the **beginning of the development phase** for the PropEase platform. The focus was on **initial setup, environment configuration, and user-side authentication system** implementation.

Frontend Development (Angular)

- Completed **project setup** using Angular with Tailwind CSS.
- Configured routing and folder structure for modular scalability.
- Designed and developed UI for:
 - **User Registration page**
 - **User Login page**
 - **Navigation bar** (Home, Login, Register)
- Implemented basic form validation for registration and login inputs.
- Ensured **responsive design compatibility** for desktop and mobile screens.

Backend Development (Node.js + Express.js + MongoDB)

- Set up Node.js project structure and connected MongoDB Atlas database.
- Developed **User Registration API** with input validation.
- Developed **User Login API** using **JWT-based authentication** for secure sessions.
- Created **User Schema** (fields: name, email, password, role).
- Tested API endpoints with **Postman** for successful user registration and authentication.

Integration & Configuration

- Linked frontend forms with backend APIs for login and registration.
- Implemented error handling and success response display in UI.
- Configured **GitHub repository**, version control, and **branching strategy**.

Documentation

- Updated **Requirements Traceability Matrix (RTM)** for completed features.
- Recorded initial sprint progress and API endpoint details.

Roadblocks / Challenges Faced

Issue	Description	Resolution
CORS Policy Error	Frontend requests to backend API were blocked due to CORS restrictions.	Configured CORS middleware in Express.js.
Database Access	MongoDB Atlas connection failed due to IP whitelist issues.	Updated IP access rules and reconnected.
UI Rendering Delay	Component re-renders occurred after state changes in forms.	Fixed by optimizing state management.
Team Sync Delay	Minor delay in pushing frontend commits to main branch due to merge conflicts.	Resolved through Git branch coordination.

Upcoming Tasks

The next sprint will expand the **User Module** to include property browsing and search functionalities.

Planned Tasks:

- **Frontend:**
 - Develop **Property Listing Page** and **Property Detail Page**.
 - Implement **search filters** (location, price range, type).
 - Add loading indicators and error handling.
- **Backend:**
 - Create **Property Schema** and CRUD APIs (list, search, get by ID).
 - Integrate property data with the frontend.