

# 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                                |
|---------------------------|--|---|
| <b>CORS Policy Error</b>  | Frontend requests to backend API were blocked due to CORS restrictions.        | Configured CORS middleware in Express.js. |
| <b>Database Access</b>    | MongoDB Atlas connection failed due to IP whitelist issues.                    | Updated IP access rules and reconnected.  |
| <b>UI Rendering Delay</b> | Component re-renders occurred after state changes in forms.                    | Fixed by optimizing state management.     |
| <b>Team Sync Delay</b>    | 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.