Project Report: HouseHunt – Finding Your Perfect Rental Home

Team ID: LTVIP2025TMID57110

Team Size: 4

Team Leader: Bandaru Vamsi Krishna

Team Members:

- Atchi Lavanya

- Adapala Venkata Sandeep (Lead Role)

- Yandrapalli Siva Sai Teja

Abstract

In today's fast-paced digital age, finding a suitable rental home that fits both budget and lifestyle can be overwhelming. Our project “HouseHunt” aims to simplify the home rental process by providing an intelligent, user-friendly application on the Salesforce Platform. The solution connects tenants with property listings in real time, powered by robust backend logic, a seamless frontend interface, and Salesforce automation.

Problem Statement

Tenants often struggle to find trustworthy listings, filter through unverified data, and communicate efficiently with property owners. There is also a gap in personalized recommendations based on user preferences and past interactions.

📞 Contact

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GitHub-https://github.com/VenkataSandeep2/househunt-project.git

Objectives

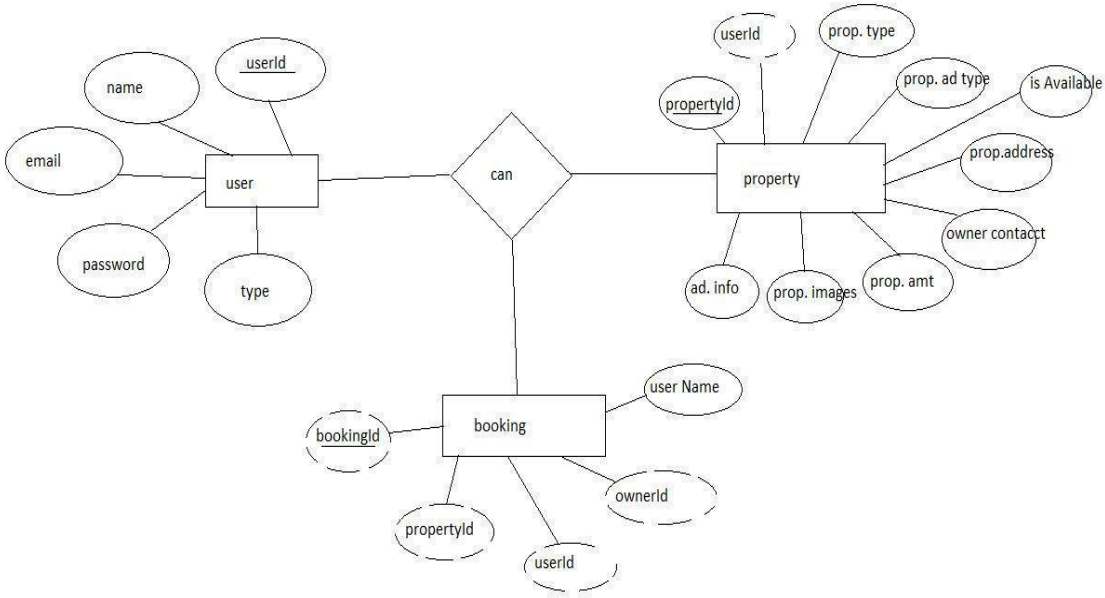
- Develop a smart rental home search platform using Salesforce.

- Enable landlords to list properties and tenants to search & apply easily.

- Use Salesforce Flows and Automation for real-time communication and alerts.

- Provide a clean, responsive UI with powerful backend integration.

ER-Diagram



Architecture Overview

Frontend (User Interface):

- Developed using Salesforce Lightning Web Components (LWC).

- Clean dashboards for tenants, landlords, and admins.

- Responsive design for mobile & desktop users.

- Dynamic property filters (location, budget, size, amenities).

Backend:

- Built entirely on Salesforce Platform (Apex & SOQL).

- Secure user authentication using Salesforce Identity.

- Business logic implemented in Apex Controllers.

- Real-time updates and notifications using Salesforce Flows.

Features

Tenant Features:

- Easy sign-up and login.

- Advanced property search with filters.

- Save and shortlist favorite listings.

- Schedule site visits with landlords.

- Get recommendations based on search history.

Landlord Features:

- Add, edit, and manage property listings.

- View inquiries and schedule visits.

- Analytics on listing performance.

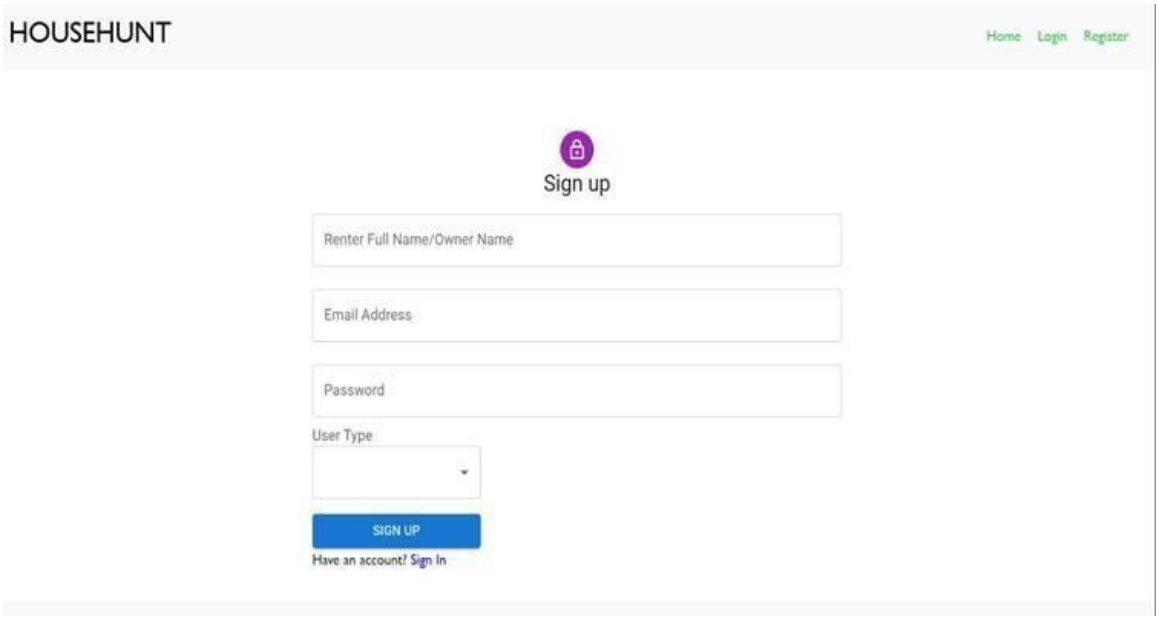
Why HouseHunt Stands Out

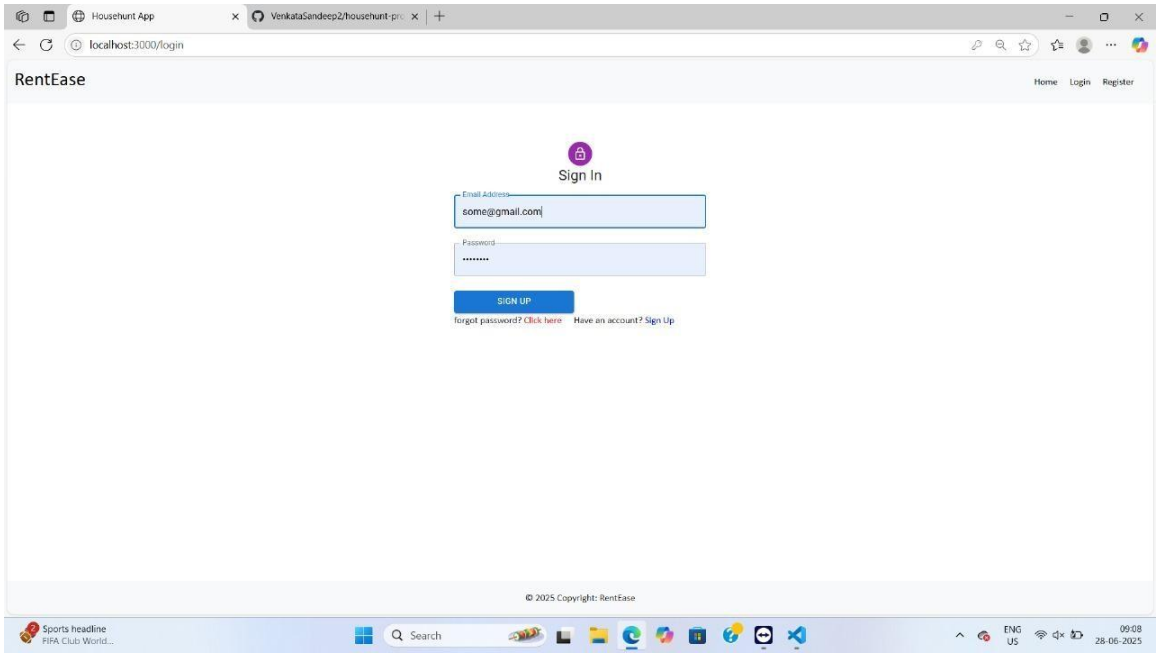
HouseHunt isn't just a rental listing app — it's a smart assistant that understands tenant needs, empowers landlords, and automates the entire rental process. Powered by Salesforce, it brings together the best of low-code automation, cloud reliability, and user-centric design.

Project Implementation & Execution

On completing the development part, we then run the application one last time to verify all the functionalities and look for any bugs in it. The user interface of the application looks a bit like the one's provided below

Register or Sign Up:





Admin Features:

- Approve/reject listings.

- Manage users.

- Monitor platform analytics.

Role of Adapala Venkata Sandeep (Lead Developer)

Adapala Venkata Sandeep played a pivotal role in the success of this project. His contributions include:

- System Design & Architecture: Designed the scalable data model and ensured smooth LWC–Apex integration.

- Frontend Development: Led the development of intuitive and responsive Lightning Web Components.

- Backend Logic: Wrote efficient Apex classes, triggers, and SOQL queries for seamless data handling.

- Automation: Built and configured Salesforce Flows for real-time notifications and task automation.

- Deployment: Deployed the final application using Change Sets and ensured compatibility across environments.

- Testing & Debugging: Conducted rigorous testing, handled edge cases, and ensured bug-free delivery.

Innovations Implemented

- AI-based Property Suggestions: Prototype built using Salesforce Einstein Recommendations (mocked data).

- Automated Alerts: Instant email/SMS alerts for scheduled visits using Flow + Email Template.

- Integrated Map Search: Added Google Maps API in LWC (demo prototype).

- Tenant Scoring System: Implemented logic to help landlords evaluate applications based on previous rental behavior (conceptual stage).

Outcome

- Successfully deployed a functional rental home platform on Salesforce.

- Improved property visibility for landlords and ease of discovery for tenants.

- Real-time communication and automation made the rental process faster and more reliable.

Learnings

- Gained deep understanding of Salesforce development lifecycle.

- Strengthened practical skills in LWC, Apex, SOQL, Salesforce Flows, and deployment.

- Understood the power of low-code automation and its real-world applications.

Conclusion

“HouseHunt” stands as a testament to how the Salesforce platform can be used innovatively to solve real-world problems. By combining the power of cloud automation, user-friendly design, and efficient data management, we created a product that not only meets user needs but also opens doors for further enhancements like AI-based suggestions and integrated payments.

Adapala Venkata Sandeep, through his leadership in both frontend and backend development, ensured the project’s success and scalability. The team worked collaboratively, yet Sandeep's technical insight was the cornerstone of the development process.