

Your one-stop platform for all your rental needs

Chan Ming Han Crystal Cheong Ng Mu Rong Cheong Chi Hian Ang Jun Koon





Meet the Team



Ming HanBackend Developer



Mu RongDatabase Developer



CrystalFrontend Developer



Chi HianTest Developer



Jun KoonBusiness Development



Problem



Difficulty contacting renters and agents



Inability to get a view of the neighbouring area

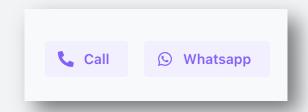


Lack of comprehensive info on neighbourhoods

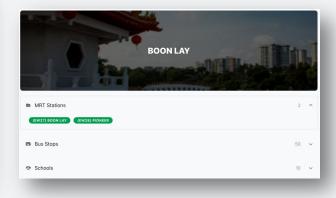
These are the main problems rentees currently face that we aim to solve through our web app



Our Solution





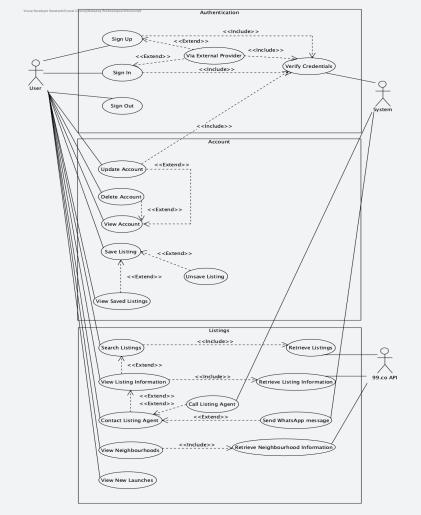


Allow users to call/WhatsApp agents and renters at the click of a button

Providing interactive street view of the property on the website

Allow users to explore different neighborhoods with elaborations on amenities available

Through these features and many others, we aim to solve the 3 main problems that rentees face.





Use Case Diagram





Target Audience



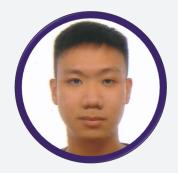
Rentee

Broke college student that is looking to rent a room



Buyer

Newly wed looking to buy a house to settle down



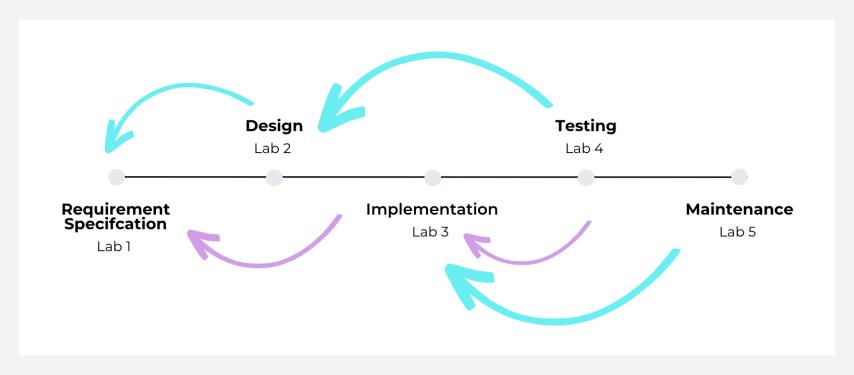
Renter

Renter that wants to analyse the market for homes around his area

Target Audience

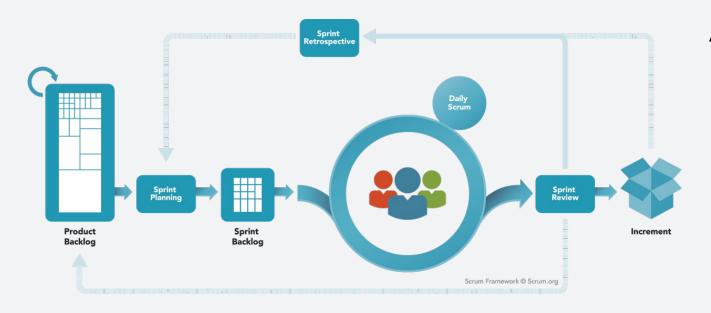


SDLC Activities





Project Management Philosophy

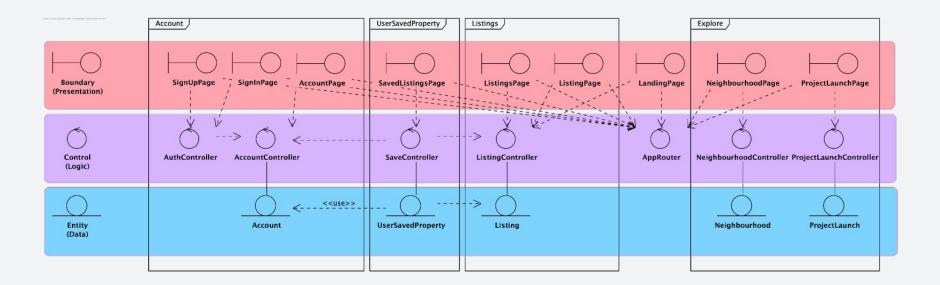


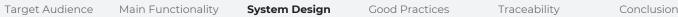
Agile Development Framework

- Adapted the scrum methodology to facilitate the development of the project
- Weekly and iterative stand-ups to measure progress and give feedback
- Sprint Planning and review



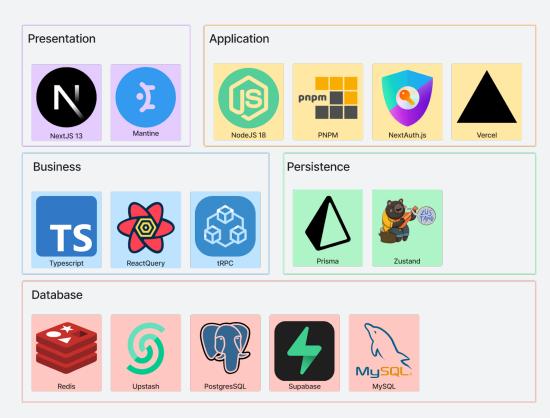
System Architecture







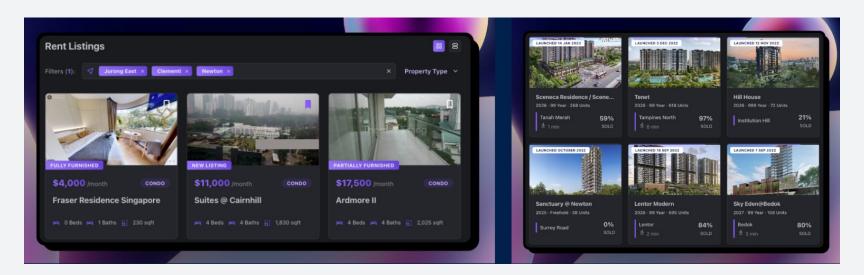
System Architecture





Features Overview

- Search listings by property type and location
- Save your favourite listings and view them at a glance
- Explore neighbourhoods and latest condo launches





Software Practices



Small Increments

Adding functions incrementally and testing along the way



Pair Programming

Coding together and constantly checking each other's work

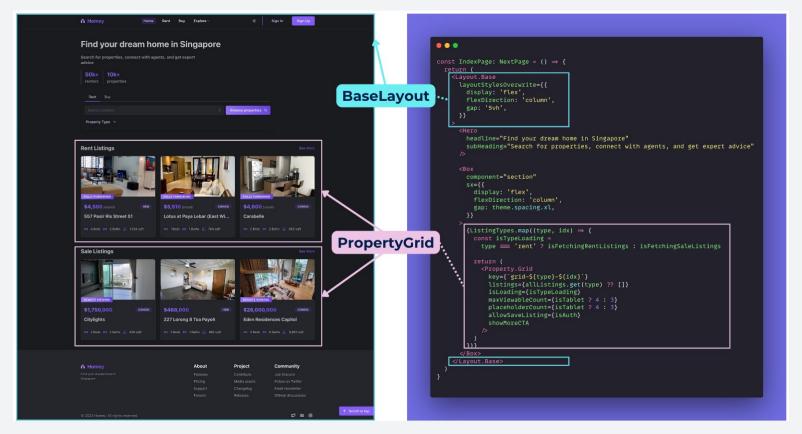


Code Readability

Maintaining code readability to find bugs and errors easily

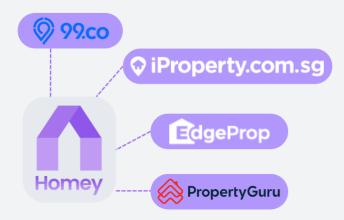


Reusability and Modularity

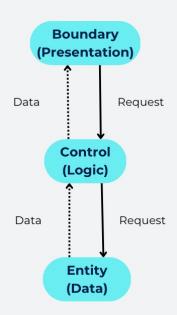




Extensibility



- Designed to be scalable and robust
- Flow of dependencies trend downwards
- Logic layer at the core of the application



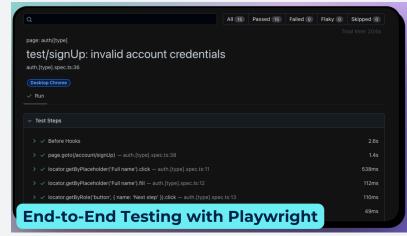


Continuous Integration

- Faster development with reduced risks
- Shorter review time
- Version control and branching
- Better code quality & faster bug fixes

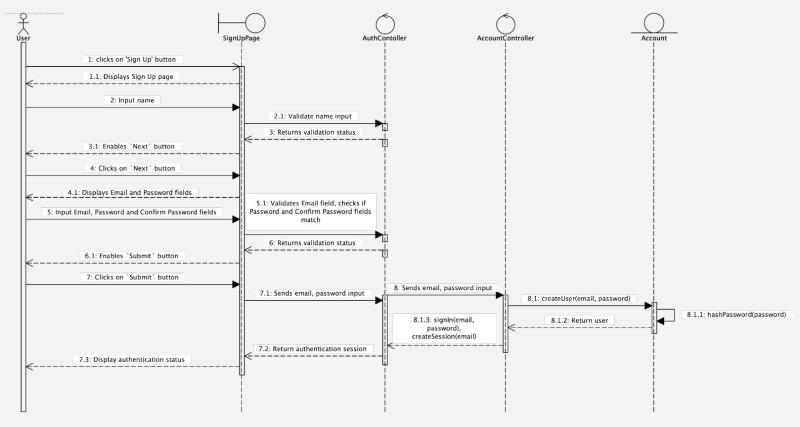
Tools Used

- Automated E2E Testing: Playwright
- Deployment: Vercel
- •Code Formatter: ESLint, Prettier
- •Version Control: Git, Github

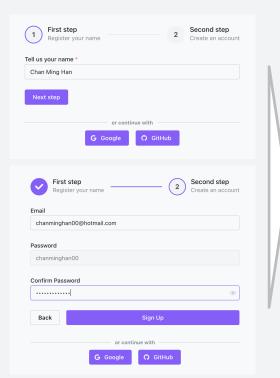




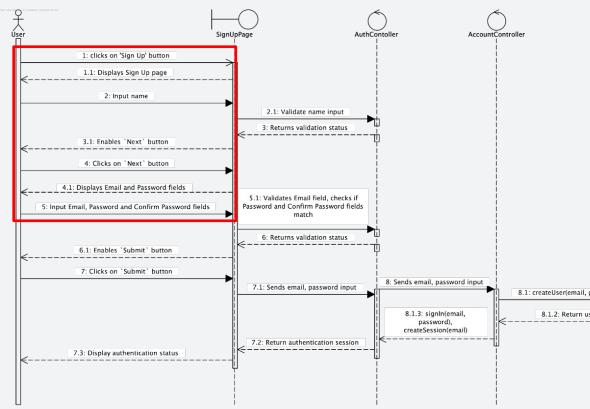








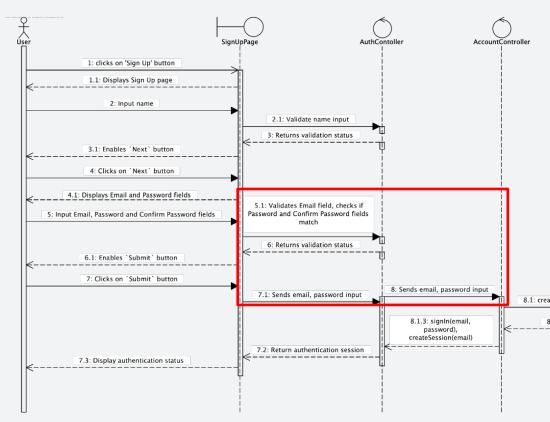
Frontend Form











About Us

Use Case Diagram

Target Audience

Main Functionality

System Design

Good Practices

Traceability

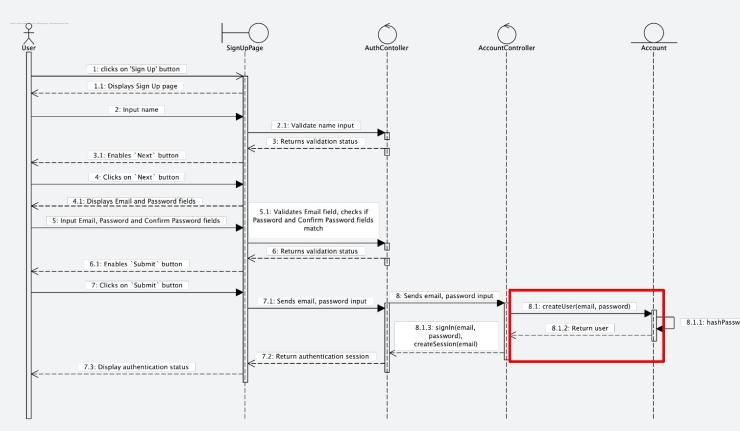
Conclusion





Backend Handler

 Create new user at the backend





Test Id	Scenario	Expected Output	Actual Output
1	Name field is empty or invalid	System prevents moving on to the next step	System prevents moving on to the next step
2	Register with valid name, email and password	The system displays the main page for user to continue the operation	The system displays the main page for user to continue the operation
3	Register with existing account email	The system prompts the user that user already exists	The system prompts the user that user already exists
4	Register with invalid name	The system prompts the user of invalid credentials	The system prompts the user of invalid credentials
5	Register with mismatch password	The system prompts the user of mismatch credentials	The system prompts the user of mismatch credentials
6	Register with invalid email	The system prompts the user of invalid credentials	The system prompts the user of invalid credentials
7	Email or password field is empty	System does not allow clicking of 'Sign Up' button	System does not allow clicking of 'Sign Up' button



Name	Email	Password	Confirm Password	Expected Output	Actual Output
123	-	-	-	Error: Invalid Name	Error: Invalid Name
(Empty)	-	-	-	Unable to click on object 'Next step"	Unable to click on object 'Next step'
testtwo	test2@gmail.co m	test	test	The system displays the main page for user to continue the operation	The system displays the main page for user to continue the operation
test	test@gmail.co m	test	test	Error: Sign Up Failed User already exists	Error: Sign Up Failed User already exists
testfour	test4@gmail.co m	test	testing	Error: Passwords do not match	Error: Passwords do not match
testfive	test5@.com	(Empty)	(Empty)	Error: Invalid Email	Error: Invalid Email
testfive	(Empty)	test	test	Unable to click on object 'Sign Up"	Unable to click on object 'Sign Up'
testfive	test5@gmail.co m	(Empty)	(Empty)	Unable to click on object 'Sign Up"	Unable to click on object 'Sign Up"

About Us Use Case Diagram

Target Audience

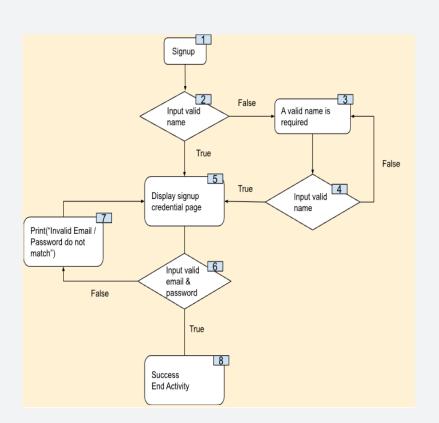
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Test Cases	Expected Basis Path	Actual Basis Path
testtwo -> test2@gmail.com	1, 2, 5, 6, 8	1, 2, 5, 6, 8
123 -> testthree - > test3@gmail.com	1, 2, 3, 4, 5, 6, 8	1, 2, 3, 4, 5, 6, 8
123 -> 456 -> testfour -> test4@gmail.com	1, 2, 3, 4, 3, 4, 5, 6, 8	1, 2, 3, 4, 3, 4, 5, 6, 8
testfive -> test5@.com -> test5@gmail.com	1, 2, 5, 6, 7, 5, 6, 8	1, 2, 5, 6, 7, 5, 6, 8

Cyclomatic Complexity = 4



Homey



Expansion into SEA

- Concrete plans to proliferate the Singapore homeowner and rental market
- Further expansion into the APAC and SEA region



Increasing partnerships

 Collaboration with local rental companies such as ERA, with plans to include fringe firms in future

Homey aims to become the one-stop solution for all property needs

Thank you!

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https://homey-sg.vercel.app/

