



Homey

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Purpose

A one-stop-shop for all real estate needs to provide a user-friendly and efficient search experience, helping users make informed decisions and find their perfect property.



Target Audience

Users

- Homebuyers
- Home sellers
- Renters
- Real estate investors
- Real estate agents

Stakeholders

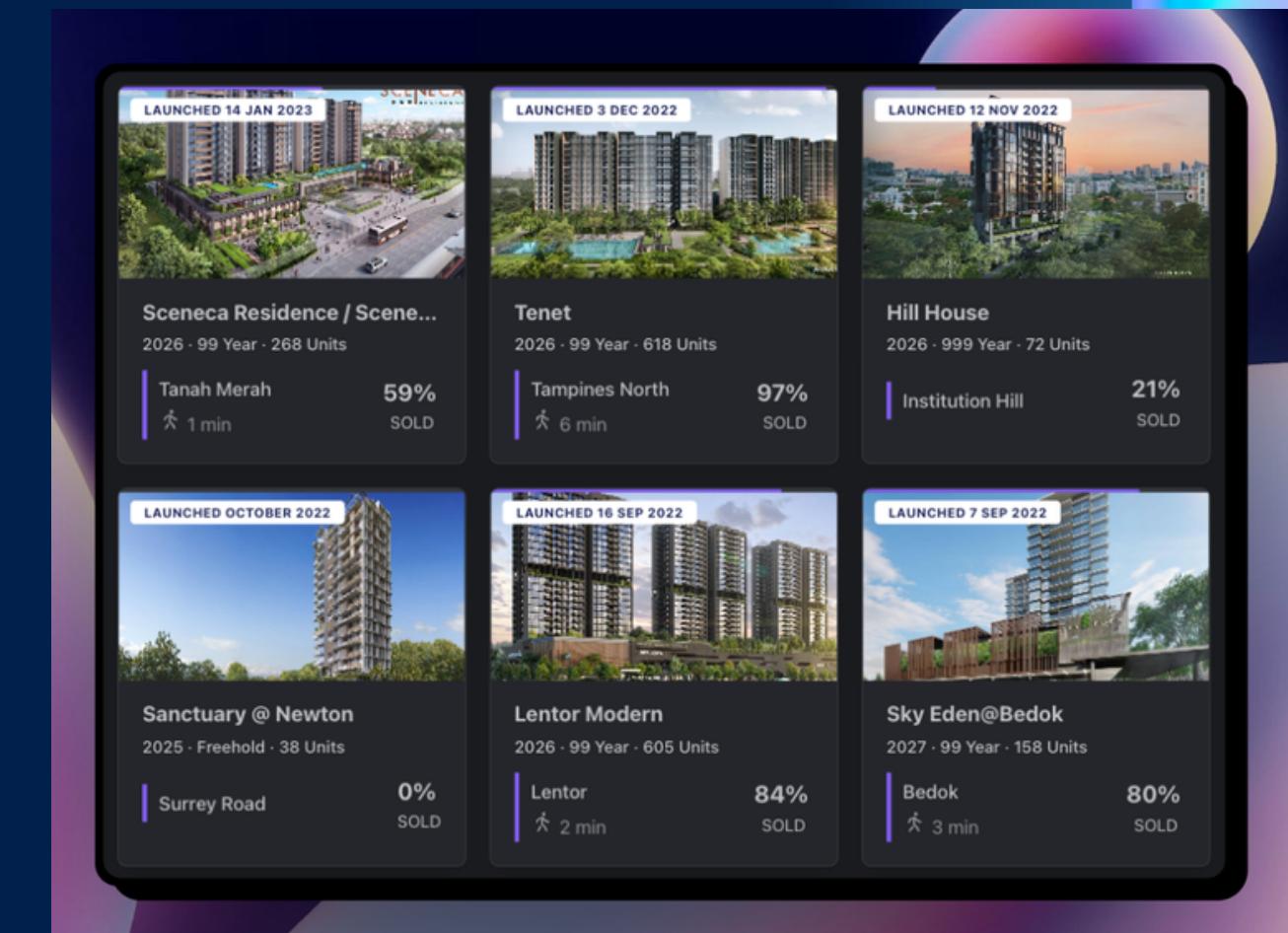
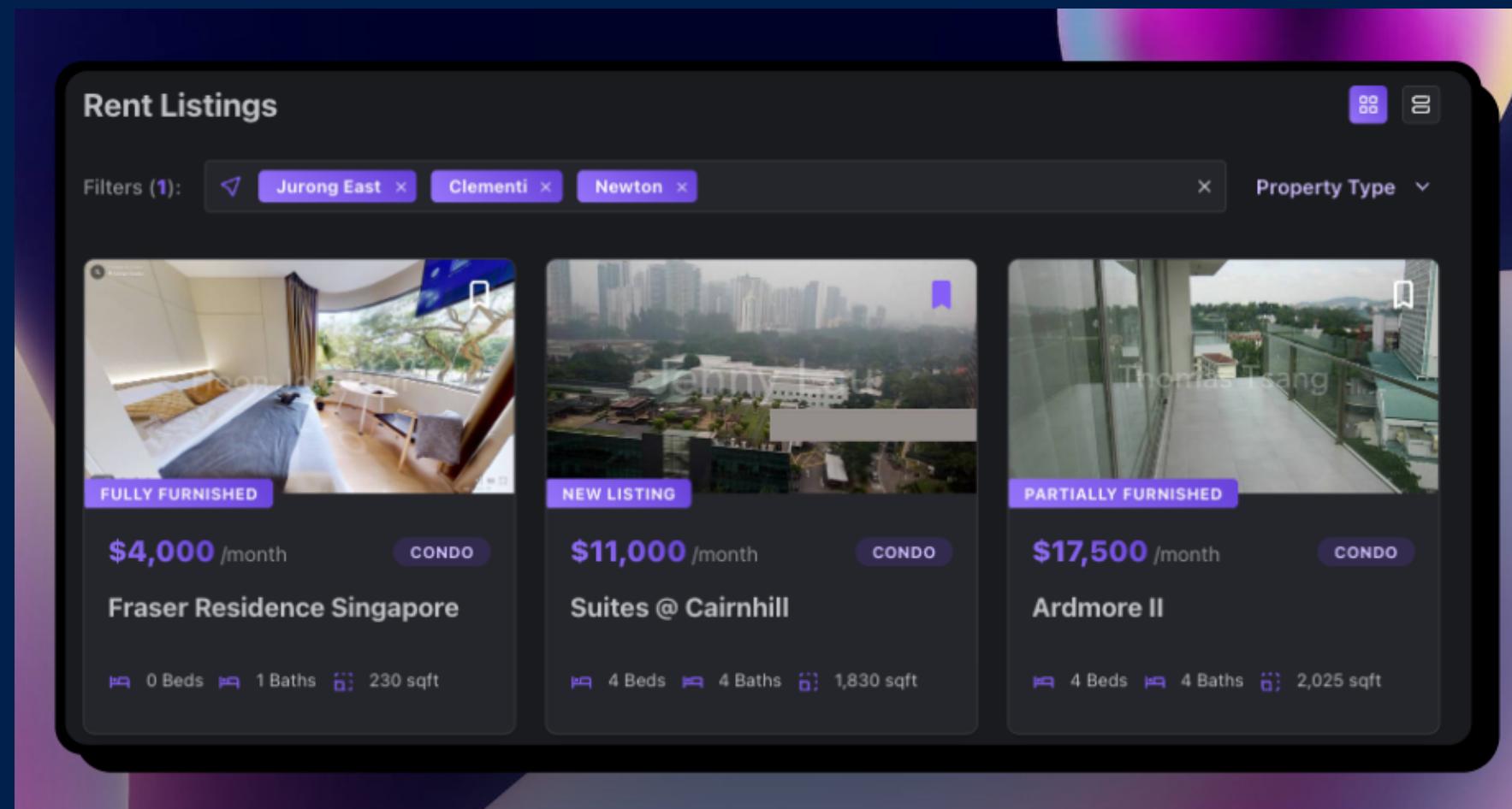
- Homey development team
- Homey management team
- Real estate agents and agencies
- Potential investors
- Potenntial Advertisers

Product Scope

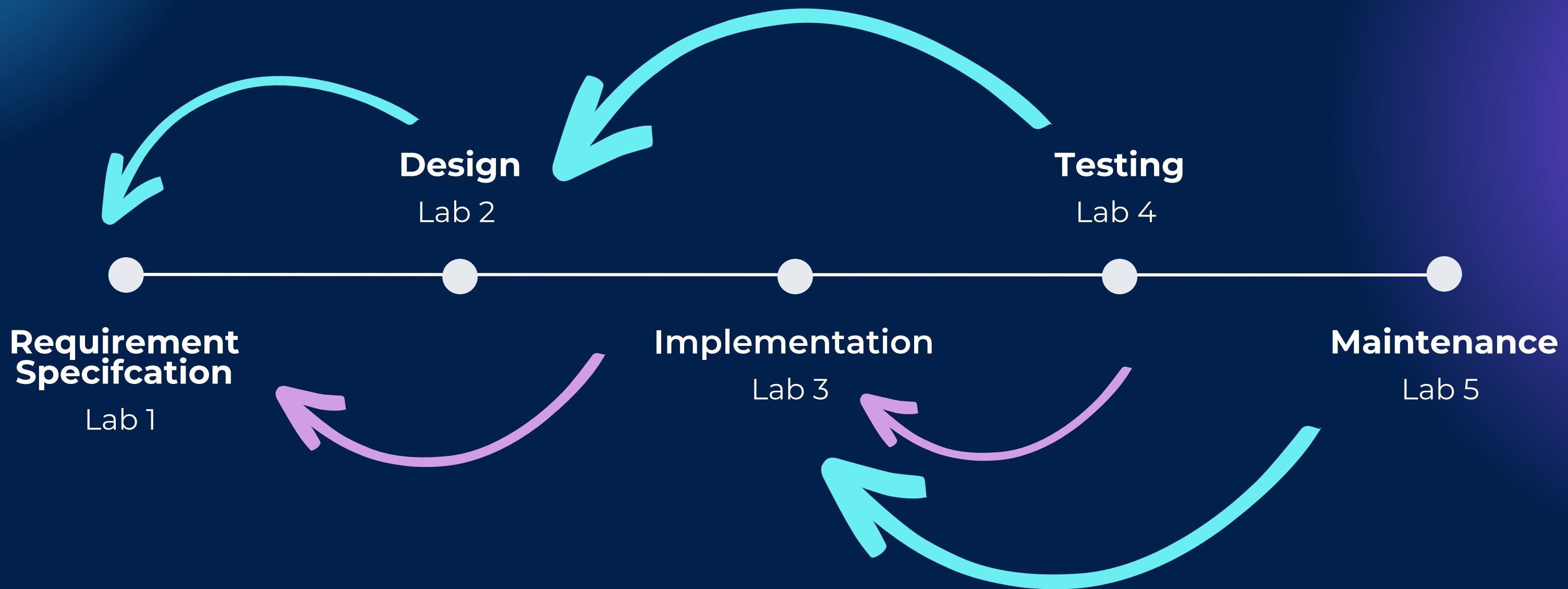


Features Overview

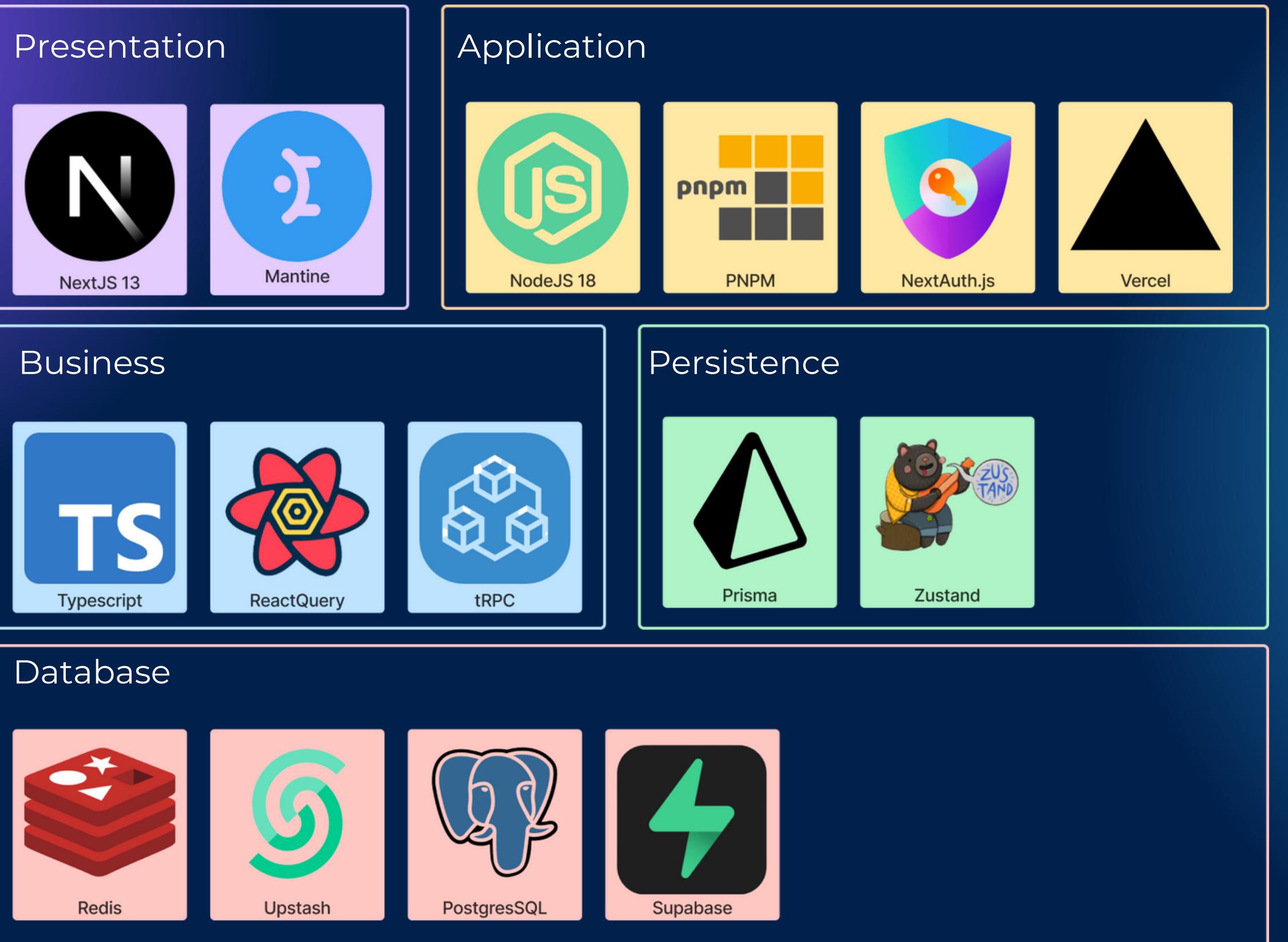
- Search listings by property type and location
- Save your favourite listings and view them at a glance
- Explore neighbourhoods and latest condo launches



SDLC Activities



Tech Stack



SE Practices & Traceability

Reusability & Modularity

The diagram illustrates the modular architecture of a web application, specifically focusing on the reusable **BaseLayout** and the modular **PropertyGrid**.

BaseLayout: A large cyan-bordered box on the right contains the code for the **IndexPage**. It uses the **Base** layout, which is a flex column with gaps. The layout includes a **Hero** section with a headline and subheading, and a **Box** component for listing properties. The **PropertyGrid** component is used twice within the **Box** to display **Rent Listings** and **Sale Listings**.

PropertyGrid: A purple-bordered box on the left shows the rendered interface of the **PropertyGrid** component. It displays two grids of property cards. The top grid is for **Rent Listings**, showing three items: a **FULLY FURNISHED** HDB unit in Pasir Ris Street 51 for \$4,500/month, a **FULLY FURNISHED** CONDO in Lotus at Paya Lebar (East Wing) for \$5,510/month, and a **FULLY FURNISHED** CONDO in Carabelle for \$4,600/month. The bottom grid is for **Sale Listings**, showing three items: a **REMOTE VIEWING** CONDO in Citylights for \$1,750,000, a **REMOTE VIEWING** HDB in 227 Lorong 8 Toa Payoh for \$468,000, and a **REMOTE VIEWING** CONDO in Eden Residences Capitol for \$26,000,000.

BaseLayout:

```
const IndexPage: NextPage = () => {
  return (
    <Layout.Base
      layoutStylesOverwrite={{
        display: 'flex',
        flexDirection: 'column',
        gap: '5vh',
      }}>
      <Hero
        headline="Find your dream home in Singapore"
        subHeading="Search for properties, connect with agents, and get expert advice"
      />

      <Box
        component="section"
        sx={{
          display: 'flex',
          flexDirection: 'column',
          gap: theme.spacing.xl,
        }}>
        {ListingTypes.map((type, idx) => {
          const isTypeLoading =
            type === 'rent' ? isFetchingRentListings : isFetchingSaleListings
          return (
            <Property.Grid
              key={`grid-${type}-${idx}`}
              listings={allListings.get(type) ?? []}
              isLoading={isTypeLoading}
              maxViewableCount={isTablet ? 4 : 3}
              placeholderCount={isTablet ? 4 : 3}
              allowSaveListing={isAuth}
              showMoreCTA
            />
          )
        })}
      </Box>
    </Layout.Base>
  )
}
```

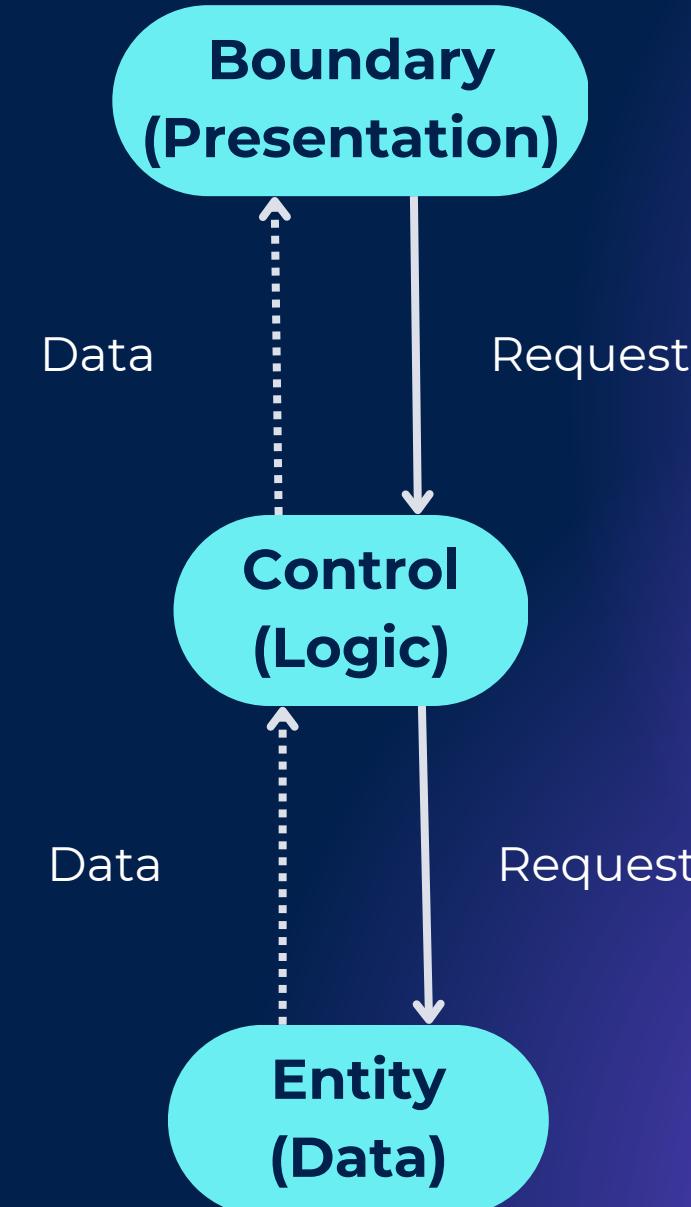
PropertyGrid:

```
<Property.Grid
  key={`grid-${type}-${idx}`}
  listings={allListings.get(type) ?? []}
  isLoading={isTypeLoading}
  maxViewableCount={isTablet ? 4 : 3}
  placeholderCount={isTablet ? 4 : 3}
  allowSaveListing={isAuth}
  showMoreCTA
/>
```

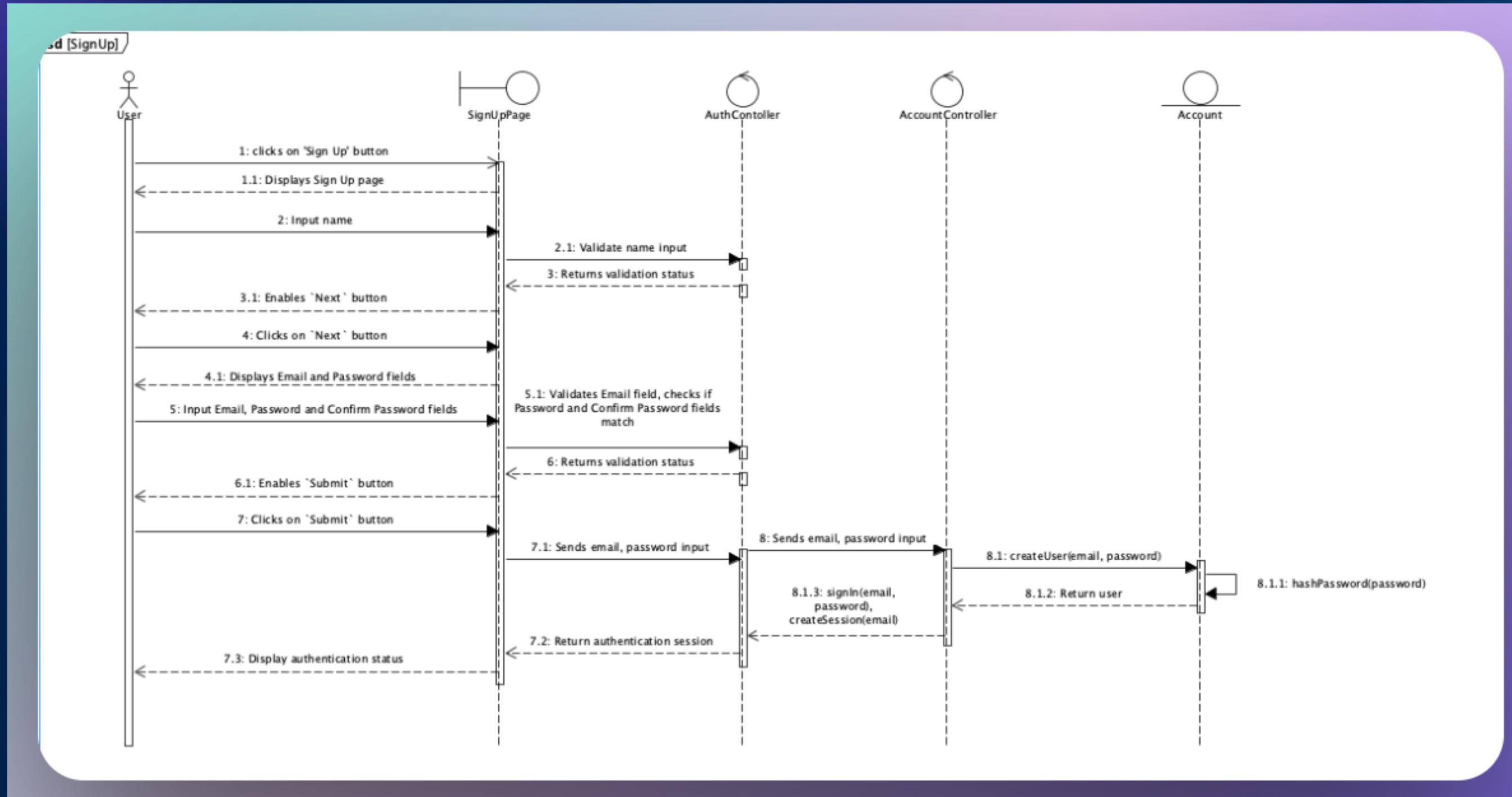
Extensibility



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



Traceability (SignUp)



Traceability (SignUp)

First step
Register your name

Second step
Create an account

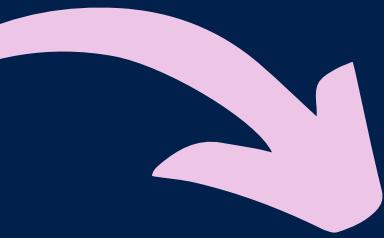
Tell us your name *

Next step

Already have an account? [Sign In](#)

or continue with

Google GitHub



User ● +

C Filters 1 Fields 5 Showing 1 of 11 Add record

	id A	name A?	email A?	password A?	image A?
	clfto07fk000cv56yqqc3...	Test	test@gmail.com	\$argon2id\$v=19\$m=6553...	null

First step
Register your name

Second step
Create an account

Email

Password

Confirm Password

Back **Sign Up**

or continue with

Google GitHub

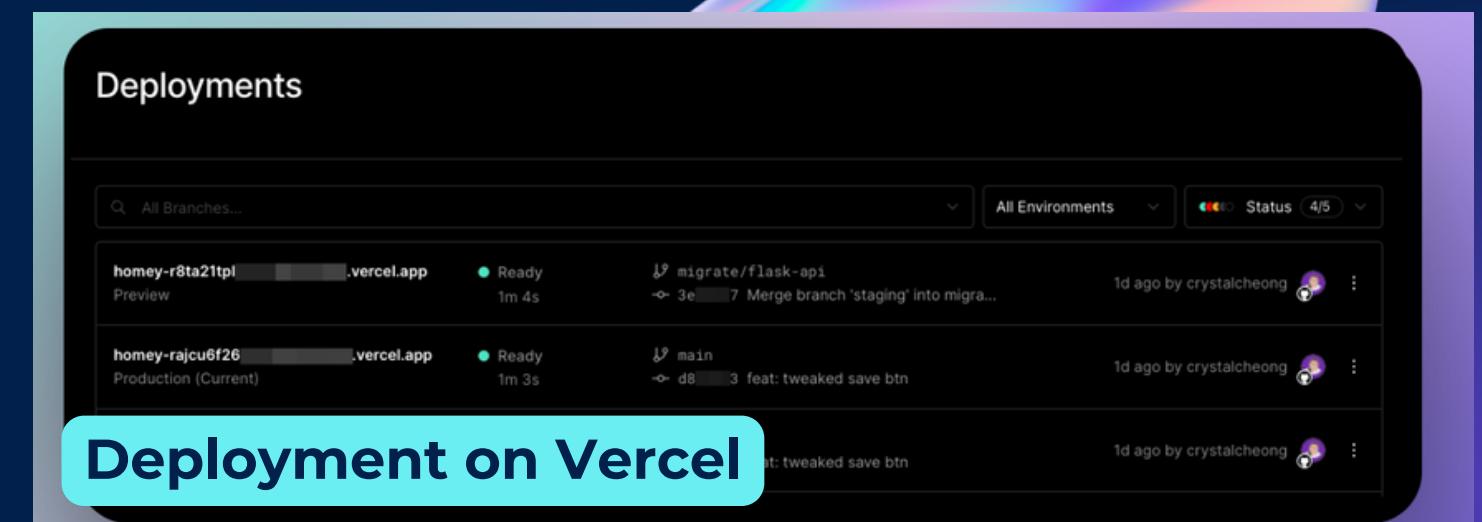
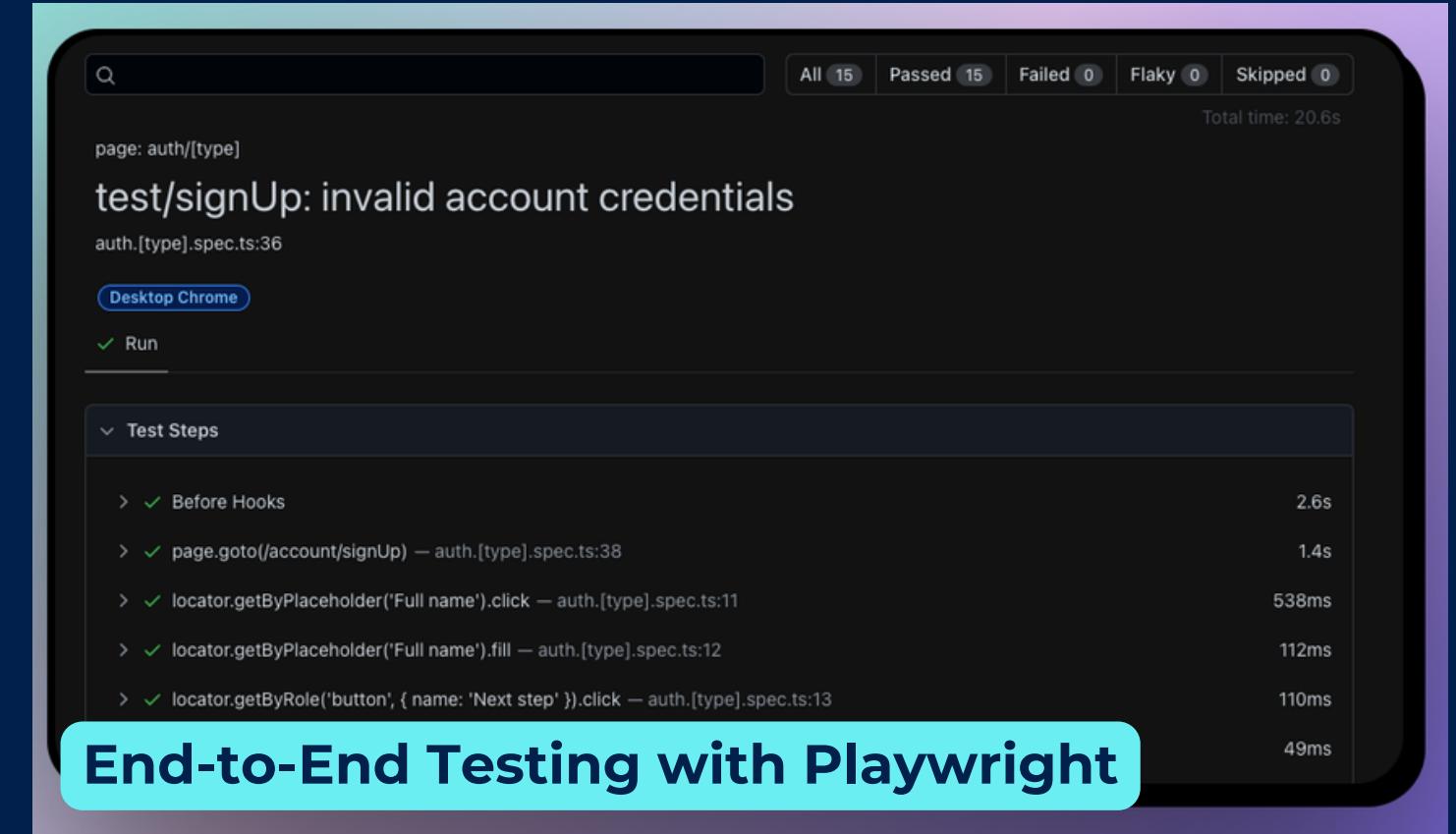
1. Submit on the frontend
2. Create new User in the backend
 - a. Password salt-hashing with Argon2
 - b. Insert new database record
3. Return User data to the frontend
 - a. Create new session
 - b. Persist in state management

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



Maintenance Roadmap

- Expand to property catalogue within Southeast Asia market
- Integration with other real estate APIs
- Continuously monitor property market

Product Demo



homey-sg.vercel.app

Thank You

Any questions?

