

Group 15
IT314 Software Engineering
Project Title: Real Estate Listing Website

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In this sprint we implemented the following functionalities of our project. Write backend code and integrate with frontend.

User Registration

- By registering with name, email and password.
- The Application checks whether the submitted email already exist in the database.
- If the email does not exist, it will create a new user entry and then register is successful.
- Option for Signing with Google to speed up onboarding in seconds, no manual data entry.

User Login

- Users will be able to sign-in with email/password.
- The credentials are verified using the stored file.
- Wrong user name/password are resulting in “Invalid Login” as message for the same.
- Upon successful login, the entire set of user-specific features is available.
- Login with Google for authenticated google user.

User Logout

- It is becoming logout system.
- Clears the authentication session/token.
- Prevents non-authorized users to services after logout.

Forgot Password

- Users who have forgotten their password can request a reset e-mail.
- User provides their registered email id.
- System verifies the email and send a link for password reset to that email.
- Upon clicking the link, the user is taken to a secure password reset page.

Password Reset

- Users can change their password by typing:
 - Current password, New password
- system checks if old password is same as stored in database.
- If it does, then the password was updated.
- Keeps your account secure and prevents unauthorized access.

Property Viewing (Visitor & signed in User)

- Logged-in or not, all visitors can view the property listings.
- Property pages show:
 - Images, Price, Location, Description, Amenities, Property details

Property Filtering

- Advanced filters can even be used by users (no login required) like:
 - Location, Minimum/maximum price, Bedrooms, Property type, Amenities
- Filtering will allow users to refine search results easily and make faster decisions.

Save Listings (Only After Login)

- Once logged in, users have the ability to “save” and/or “favorite” listings for future reference.
- In case a listing has been saved once in the system, then it will not allow to insert duplicate information.
- Listings are saved and available for quick access.

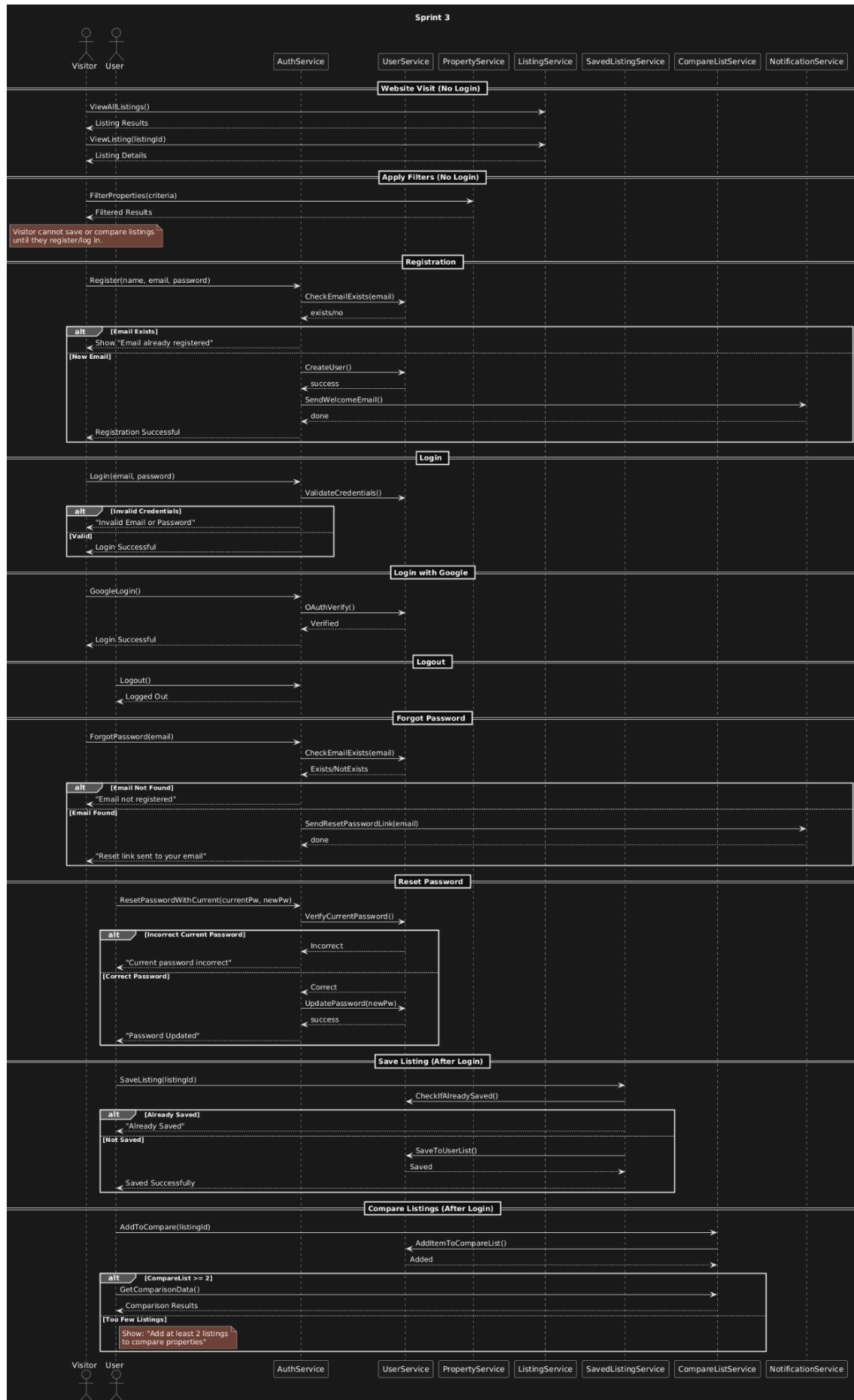
Compare Listings (Only After Login)

- Users can add listings to a comparison list if they are logged in.
- They also would be able to see features of properties side by side.
- At least two listings must be selected to perform comparison.
- This enables users to decide on their preferences easier by showing how a product differs in features, price, size etc.

Summary of Sprint

In Sprint we completed all the main user functionalities creating accounts, logging in, searching for properties, filtering them by different characteristics of interest, saving favorites and comparing them with one another as well as password computations. Visitors are able to freely shop for properties and apply filters, but saving, comparing and more become available after logging in. Furthermore critical account recovery experiences forgot password and email based reset got done, giving a strong authentication experience to users.

Sequence Diagram



Class Diagram

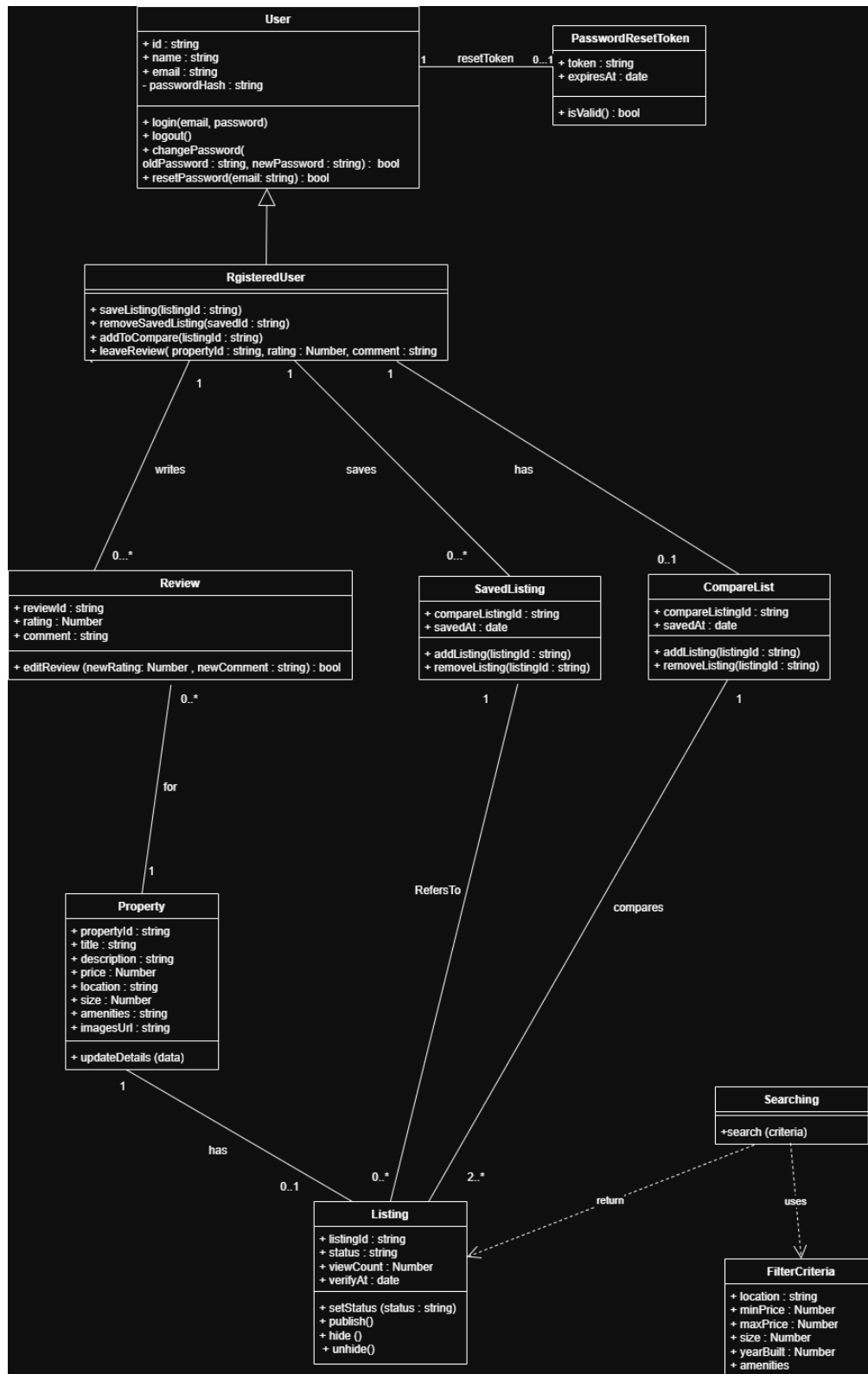




Image of Functionality

OVERVIEW




Compact Office Cabin
Suite 302, Mumbai, MH, 400001
 Remove



Downtown Retail Shop
Market Lane, Mumbai, MH, 400001
 Remove

Price	₹90,00,000	₹1,50,00,000
Location	Suite 302, Mumbai, MH, 400001	Market Lane, Mumbai, MH, 400001
Type	Commercial	Commercial
Size	900 sq ft	1800 sq ft
Bedrooms	0	0
Bathrooms	1	1
Year Built	2022	2015
Status	N/A	N/A
Key Amenities	Wifi, Power Backup, Lift	Wifi, Power Backup



Hardik Vala

User

♡ Saved Properties

2

📄 My Listings

2


🔍 Comparisons

2

🔔 Notifications

⚙️ Settings

Saved Properties



♡


Downtown Retail Shop

15000000

📍 Mumbai, MH

0 Beds1 Baths1800 sq ft

Saved on 2025-11-29T08:26:52.073Z



♡

Compact Office Cabin

9000000

📍 Mumbai, MH

0 Beds1 Baths900 sq ft

Saved on 2025-11-29T08:26:50.234Z