

CS 5551 Advance Software Engineering

THIRD INCREMENT REPORT

Newbie's Key

Team#13

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GitHub URL

<https://github.com/gshkr123/Newbies-Key>

Report:

We have integrated backend to required screens and created a few pages which are stated below

Fire Base Connection:

We have now connected the Login page with our Firebase account which stores the login values of the new users registered and in case if it finds a new data it states the user to register and then login.

Search Results in List View:

In the previous increment, we have implemented the results on the map and now we have created a screen that shows the list view of the available apartments.

List View to Further Details:

Now from the list view if a user needs to get further details he/she can click on the desired apartment result and this takes him to another page with all the owner contact details.

Call Facility:

Once the user is on the further details screen he/she can directly contact the Owner through a phone call as we have now included the call facility on this screen.

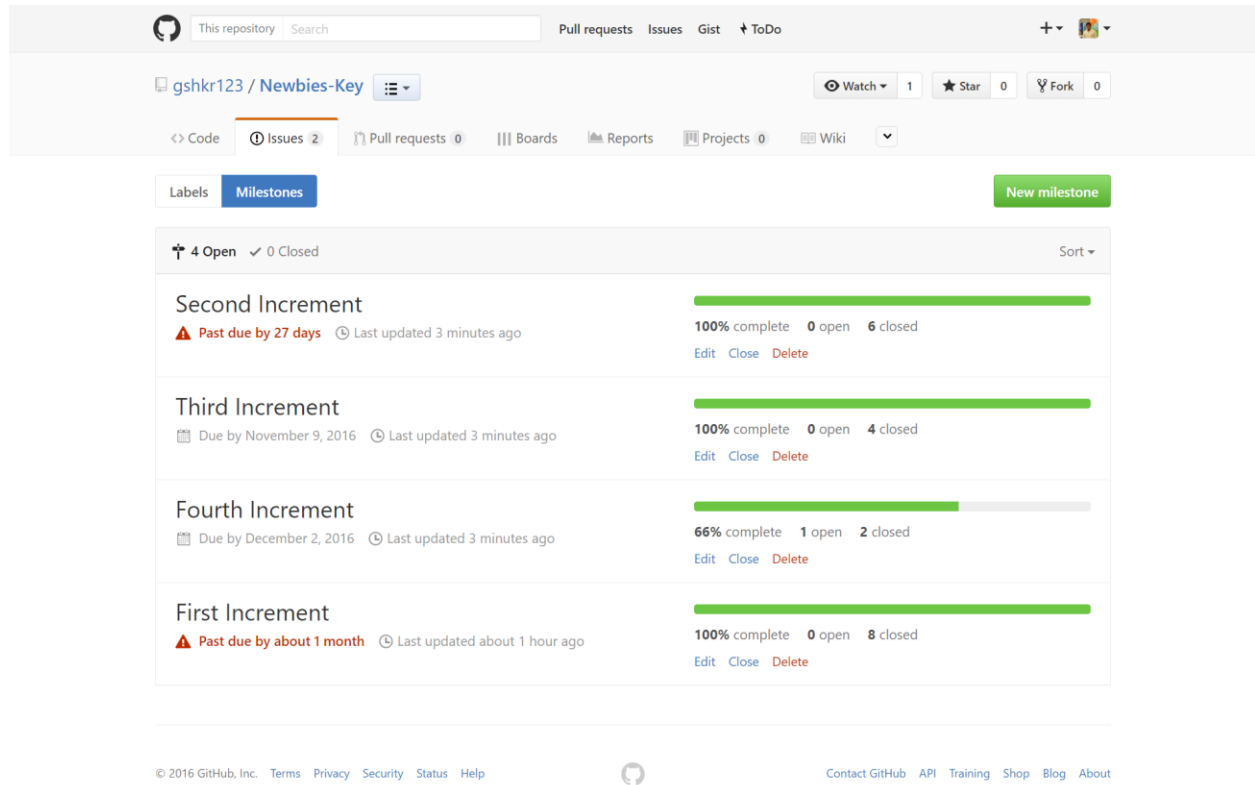
Chat Screen:

If the user needs to interact with the Owner, he can directly ping him a message and there will be a chat option available that allows a peaceful conversation between the tenant and the Owners.

Tasks yet to be completed:

- Push Notifications
- Progress Bar
- UI Improvisations

Burndown Charts



Second Increment

As a part of second increment we have implemented the OAuth login using Facebook login and we have created a logic where the user once logged is redirected to a search page where he will be able to see his present location and a click on search button takes him to the maps where he can search his desired location and get the available apartments on the map as markers.

Features:

AutoFill Places: When the user tries to enter the location in the search bar he will get a dropdown list with all the values related to the substring he already entered.

OAuth Login: For the ease of login for the users we have included the Facebook login on our Login page so that would be convenient and time saving process for new users.

Location View: Once User logs in, he will be able to see his current location on the home page which also consists of available apartments for lease near his location.

Service Description

Search: We have included the Google maps API for retrieving the current location of user.

Facebook Login: We have used Facebook API to integrate it into login page.

Autosuggest: We have used the Auto Complete API to give suggestions

Apartments: We have used Zillow API to produce the results for our apartment search

Challenges Faced during 2nd increment

- Finding an API for our Apartments.
- FB Login integration with our previous Login Page.
- We have faced Dex errors while we build the gradle.
- Faced issues with the Autosuggest API.

Total Feature Implemented so far:

- OAuth Login
- AutoComplete Text
- Apartment Search API
- Google Maps API

Features Yet to be Implemented

- Push Notifications
- One to One Chat
- List View of Search Results
- Animation for Navigations

Improvements

- UI Improvements in All Modules

Project Proposal

PROJECT INCREMENT ONE

As a part of our project's 1st increment we have implemented the Login page, a register page and on successful login redirects to the Home page. At first a new user needs to register and be able to login using his name email and the password. Here we will be using the Apartment search API to get the details of the vacant apartments that are ready to be occupied by the tenants in a particular area.

FEATURES:

1. Apartment Availability: Tenant can login the app and then filter his own interests and search for the vacant rooms available in the preferred location. In short to be straight to the point he can do a personalized search.
2. Push Notification: Once the user sets his own preferences in case if there is any new apartment details added to the system there will be a push notification sent to all the users falling under that category.
3. Map Locations: We are integrating the maps within the app so that the user can view the exact location on the maps and locate the vacant apartments nearby.
4. Real Time Event Creation: When a user searches a particular query and in parallel if an owner adds a new apartment details it reflects in the search result of the user.
5. Peer-Peer chat messaging: In this application owner and the Tenant can chat with each other in real time and get the things sorted and make a deal.

6.

SERVICE DESCRIPTION:

1. Maps: Maps information is displayed using the Google Maps API which gives us the information about the houses in a locality
2. Apartment Search: The information related to the apartments are obtained by using the Apartment search API.
3. Locations: So as to get the auto locations fill we will be using the Auto Location fill API.

PROJECT GOAL AND OBJECTIVES:

MOVITATION:

Imagine when you first check in a new place and you have no idea of what is going around. One doesn't know where to live in and if the selected place is a safety one or not. And so as to overcome these hardships we have an idea of creating an app for renting Apartments. This will be a feasible solution for both the owners and the tenants.

SIGINIFICANCE/UNIQUENESS:

Here both the Owner and Tenant creates their accounts and the owner can add the details of the apartments including the media like photos and videos of the location. Once the user clicks on the search button there will be 2 options available for view i.e. map view as well as a list view. Tenant can get the details of the apartments in a specific radius and if he finds any apartment interesting he/she can contact the owner from there. Tenant can also invite the owner to chat and get further details on the same. Once he/she likes the apartment a deal can be made and the same can be visualized in the app.

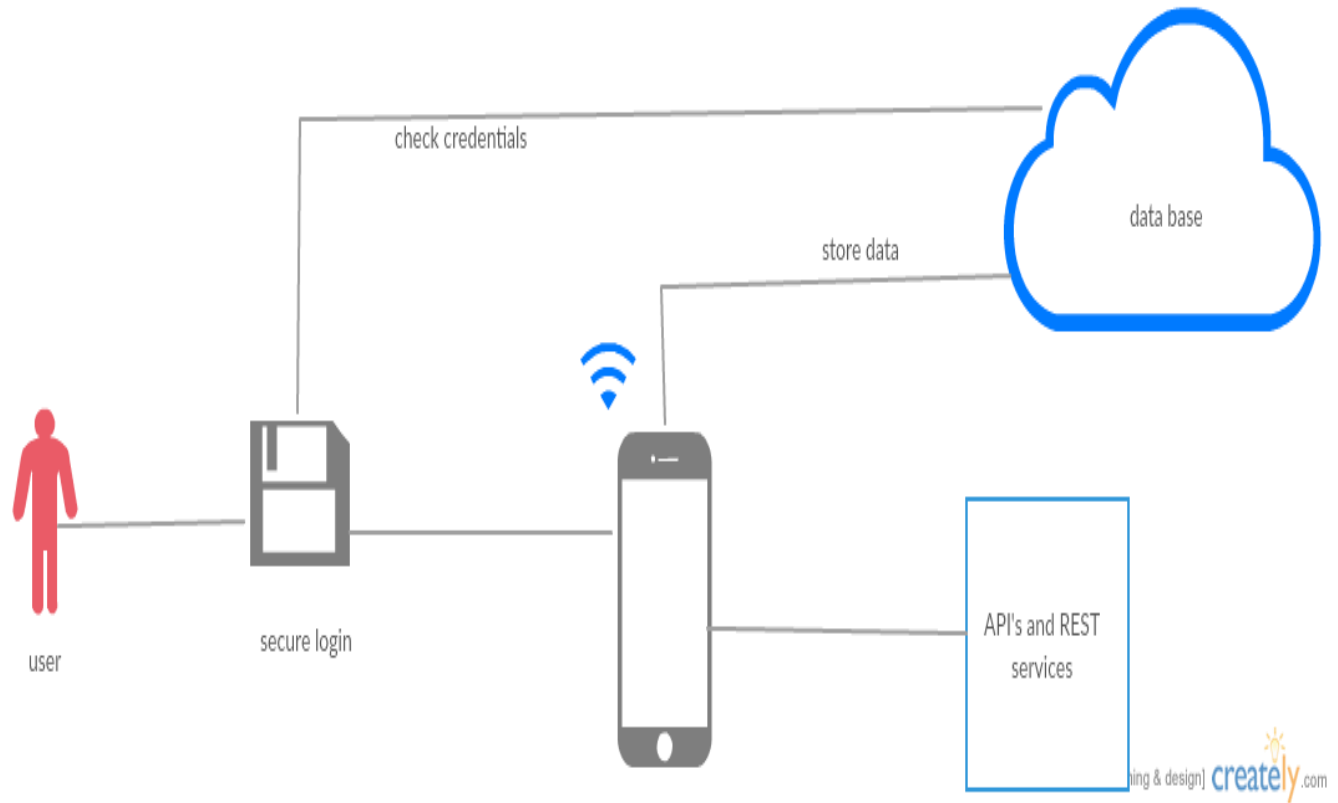
OBJECTIVES:

To make it a hassle free experience for every new comer to any new location and helping them to find a perfect place to live, encouraging and letting them to take part in all the activities happening around them.

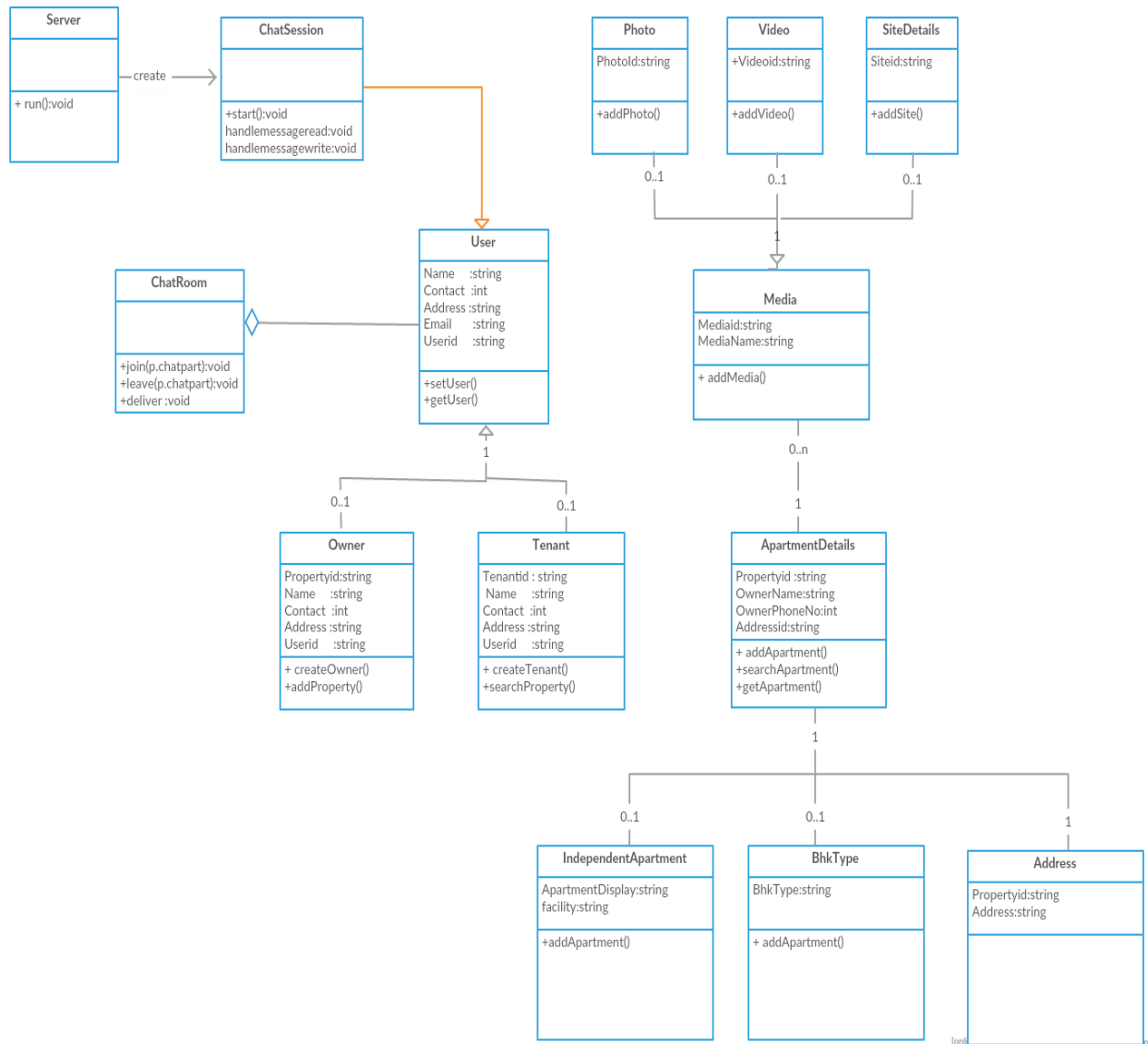
SYSTEM FEATURES:

- Push Notifications
- Real Time Event Creation
- Maps Direction
- Peer-Peer chat messaging
- Room Availability Info

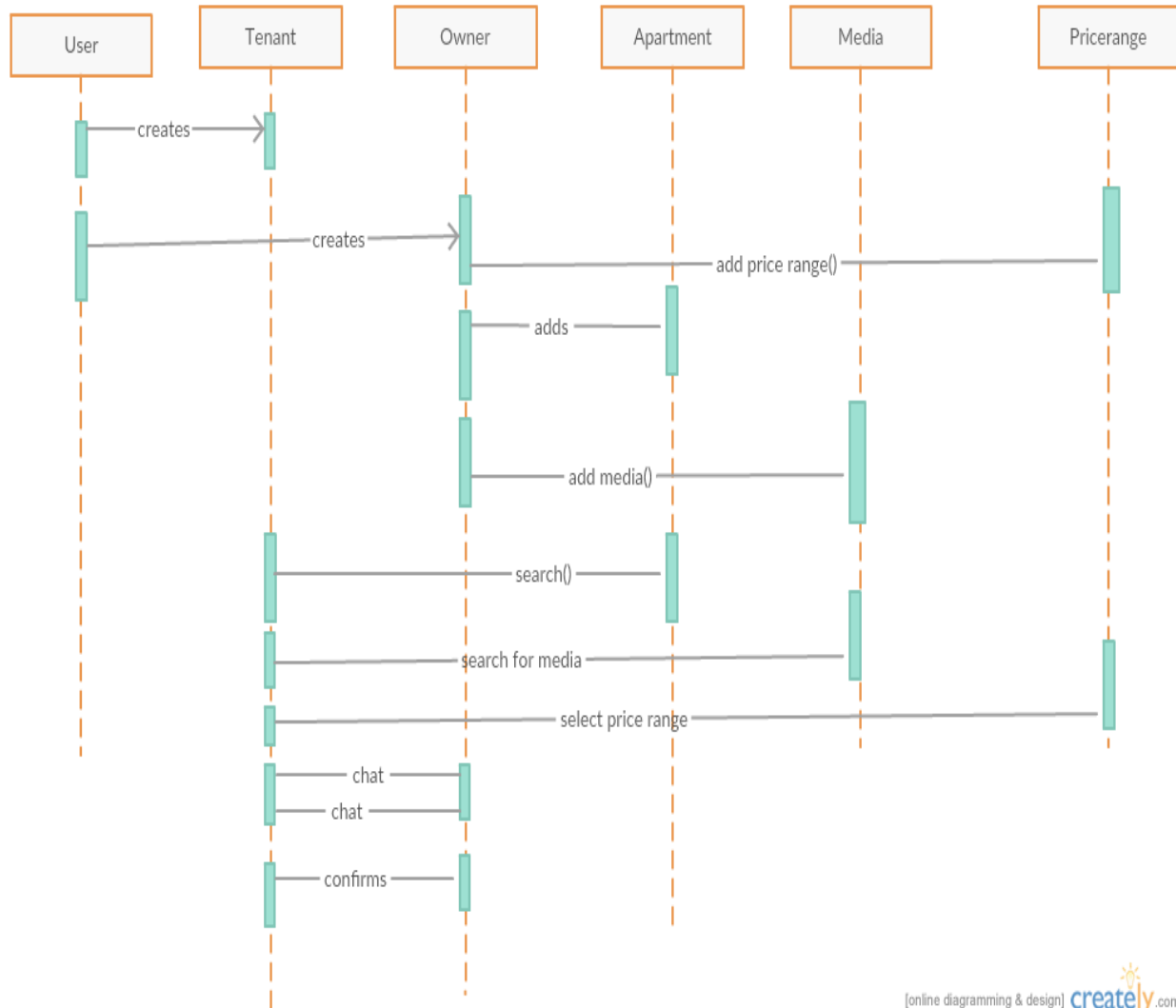
ARCHITECTURE DIAGRAM:



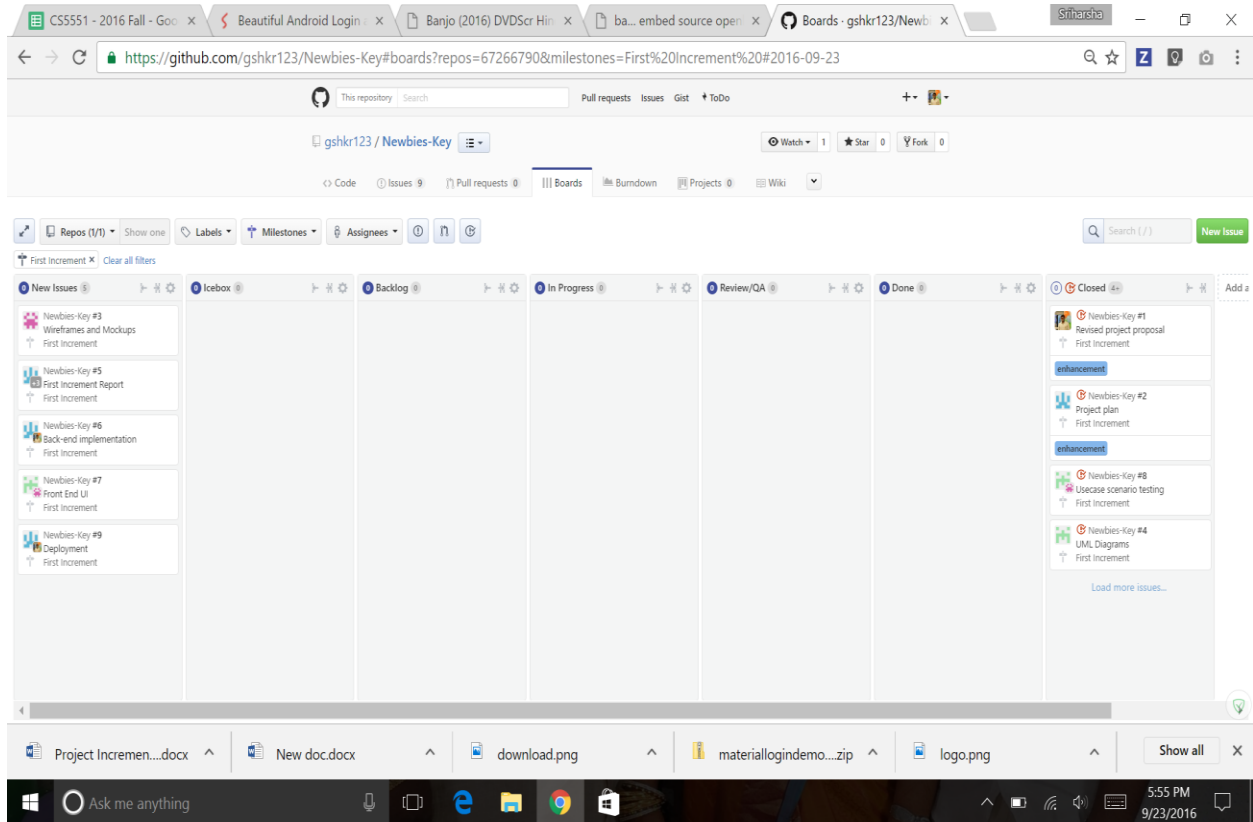
CLASS DIAGRAM:



SEQUENCE DIAGRAM:

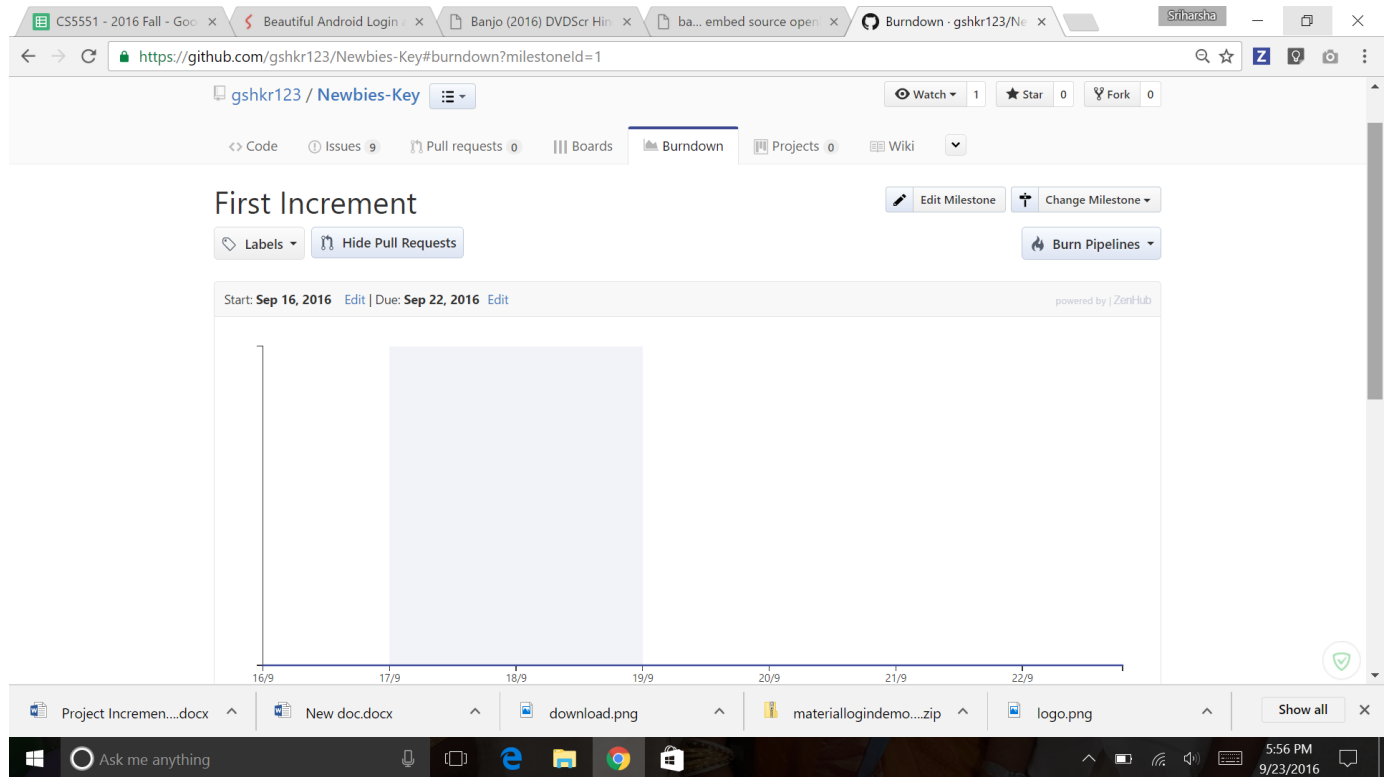


ISSUES TOOLBAR:



Tasks are assigned to each of us and we made a regular update of the tasks that are assigned to us. Mile stone for the first increment has been created. We completed all the assigned before the milestone

BURNDOWN GRAPH:



Burn down charts for assigned tasks and completed tasks. Milestone for the first increment has set to 09/23. For the tasks of the first increment, we got above burndown graph

WIREFRAMES:

LOGIN PAGE

-----UMKC HUB-----

enter username


enter password

SIGN IN

or new user?

REGISTER

REGISTER PAGE



A registration form with a light blue header bar. The form is enclosed in a white box with a thin grey border. It contains a title 'Apartment Search' in a rounded rectangle, followed by five input fields: 'name', 'email', 'contact number', 'password', and 'confirm password'. At the bottom is a blue button labeled 'create account'.

Apartment Search

name

email

contact number

password

confirm password

create account

ADD APARTMENT PAGE



An 'Add Apartment' form with a white background and a thin grey border. It starts with a 'SELLER' label in a dashed box. Below are several input fields: 'BHK' (with a dropdown arrow), 'select type' (with a dropdown arrow), and 'price'. The 'select type' field has three radio button options: 'flat', 'house', and 'villa'. Below these are fields for 'description(optional)' and 'upload picture'. At the bottom is a blue button labeled 'POST'.

-----SELLER-----

BHK

select type

☐ flat ☐ house ☐ villa

price

description(optional)

upload picture

POST

TENANT SEARCH PAGE:

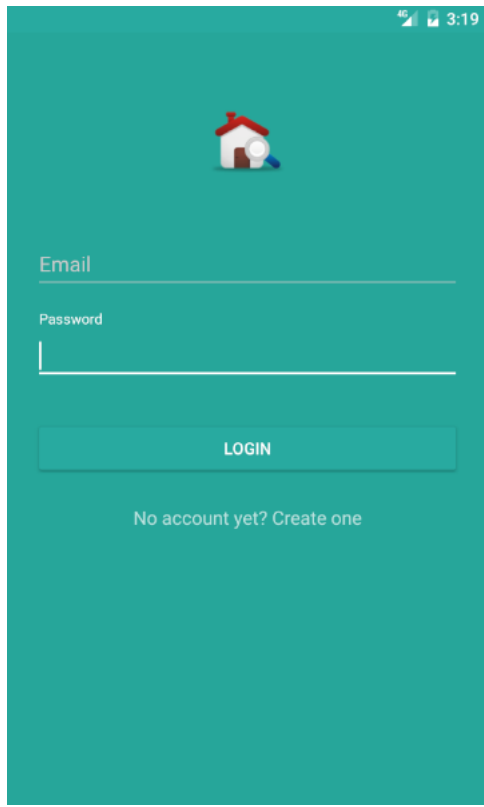


DETAILS OF A PARTICULAR PROPERTY PAGE:




MOCK-UPS:

LOGIN PAGE:



A mobile application login screen with a teal background. At the top right, there is a status bar showing 4G, a battery icon, and the time 3:19. In the center, there is a white house icon with a red roof and a magnifying glass. Below the icon, there are two input fields: one labeled 'Email' and another labeled 'Password'. The 'Password' field has a small vertical line on the left side. Below the input fields is a teal button with the text 'LOGIN' in white. At the bottom, there is a link that says 'No account yet? Create one'.

4G 3:19



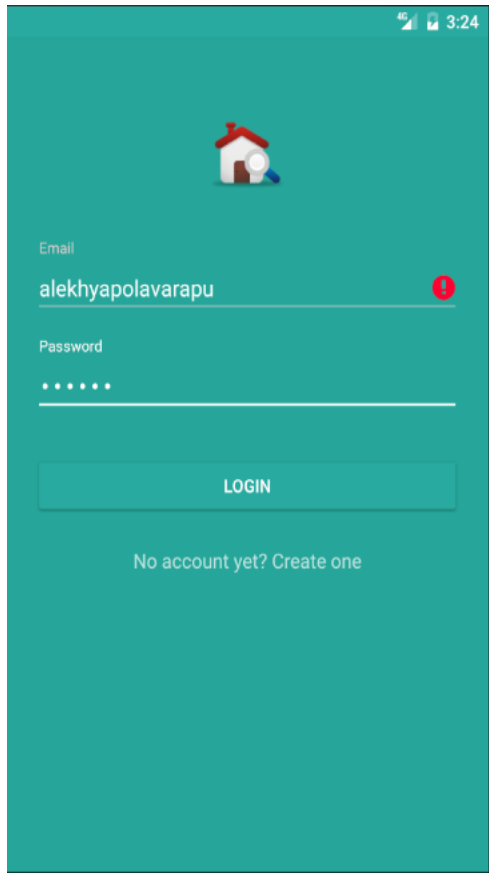
Email

Password

LOGIN


No account yet? Create one

LOGIN PAGE WITH VALIDATIONS:



A mobile application login screen with a teal background. At the top right, there are status icons for 4G, signal strength, and battery, along with the time 3:24. In the center, there is a white house icon with a magnifying glass. Below this, there are two input fields. The first is labeled 'Email' and contains the text 'alekhyapolavarapu'. To the right of this field is a red circle with a white exclamation mark. The second field is labeled 'Password' and contains six dots. Below the password field is a teal button with the text 'LOGIN'. At the bottom, there is a link that says 'No account yet? Create one'.

4G 3:24



Email

alekhyapolavarapu

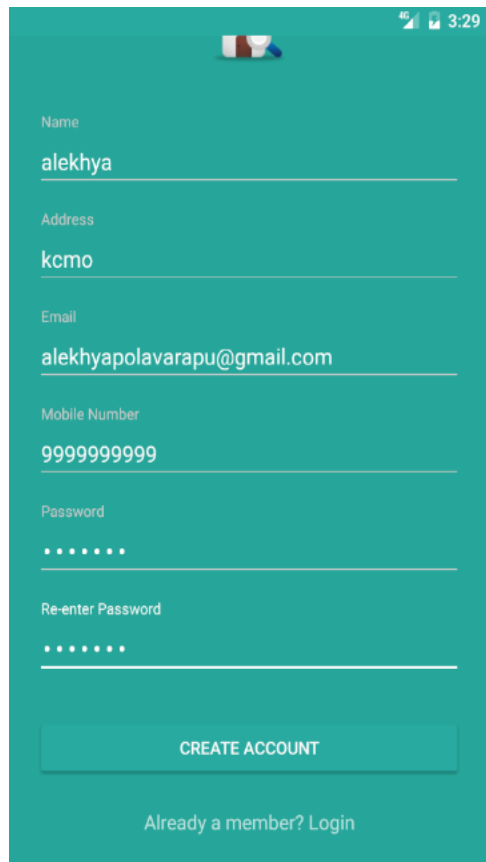
Password

•••••

LOGIN

No account yet? Create one

REGISTER PAGE:

A mobile application registration screen with a teal background. At the top, there is a status bar with a 4G signal icon, a battery icon, and the time 3:29. Below the status bar is a small profile picture icon. The form consists of several input fields with labels: 'Name' (filled with 'alekhya'), 'Address' (filled with 'kcmo'), 'Email' (filled with 'alekhyapolavarapu@gmail.com'), 'Mobile Number' (filled with '9999999999'), 'Password' (filled with seven dots), and 'Re-enter Password' (filled with seven dots). At the bottom of the form is a large teal button labeled 'CREATE ACCOUNT'. Below the button is a link that says 'Already a member? Login'.

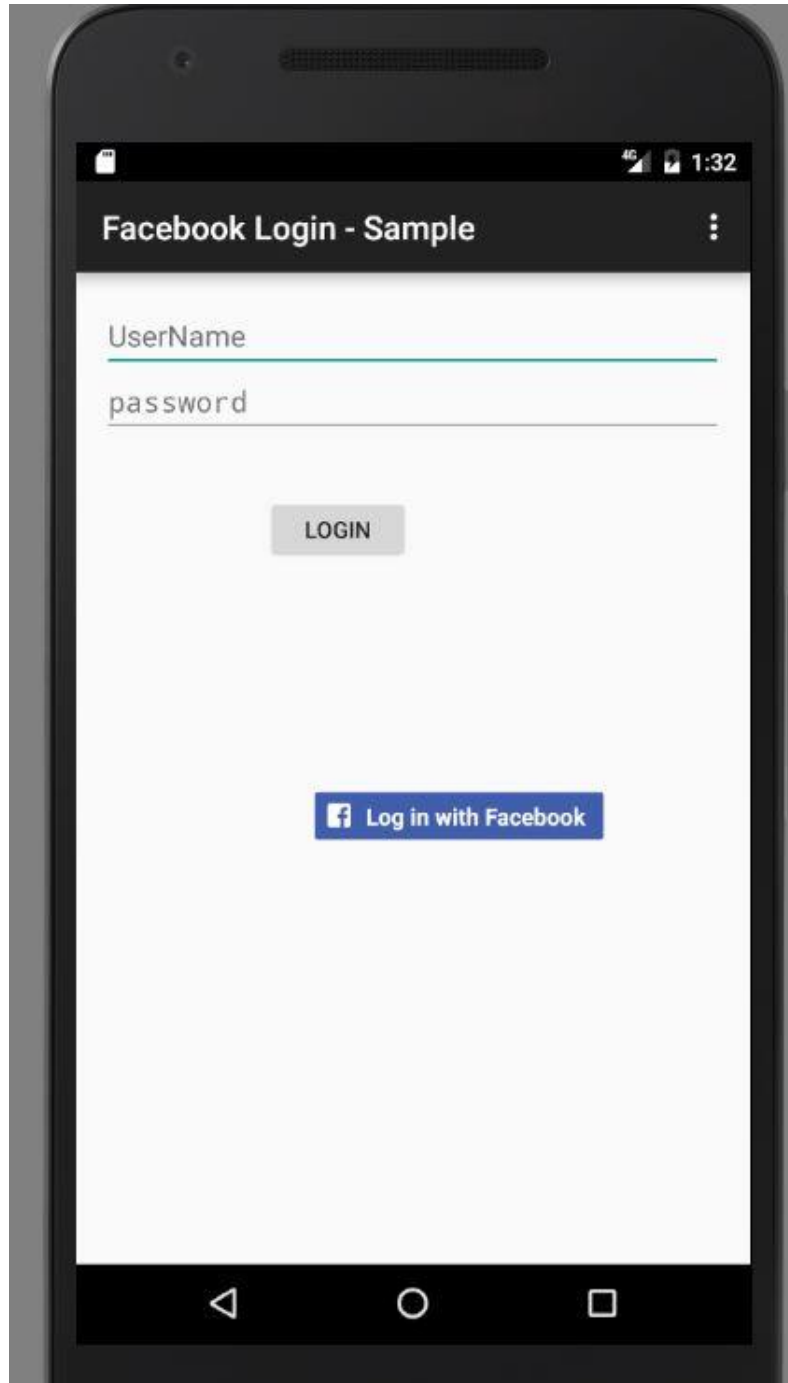
USER STORIES:

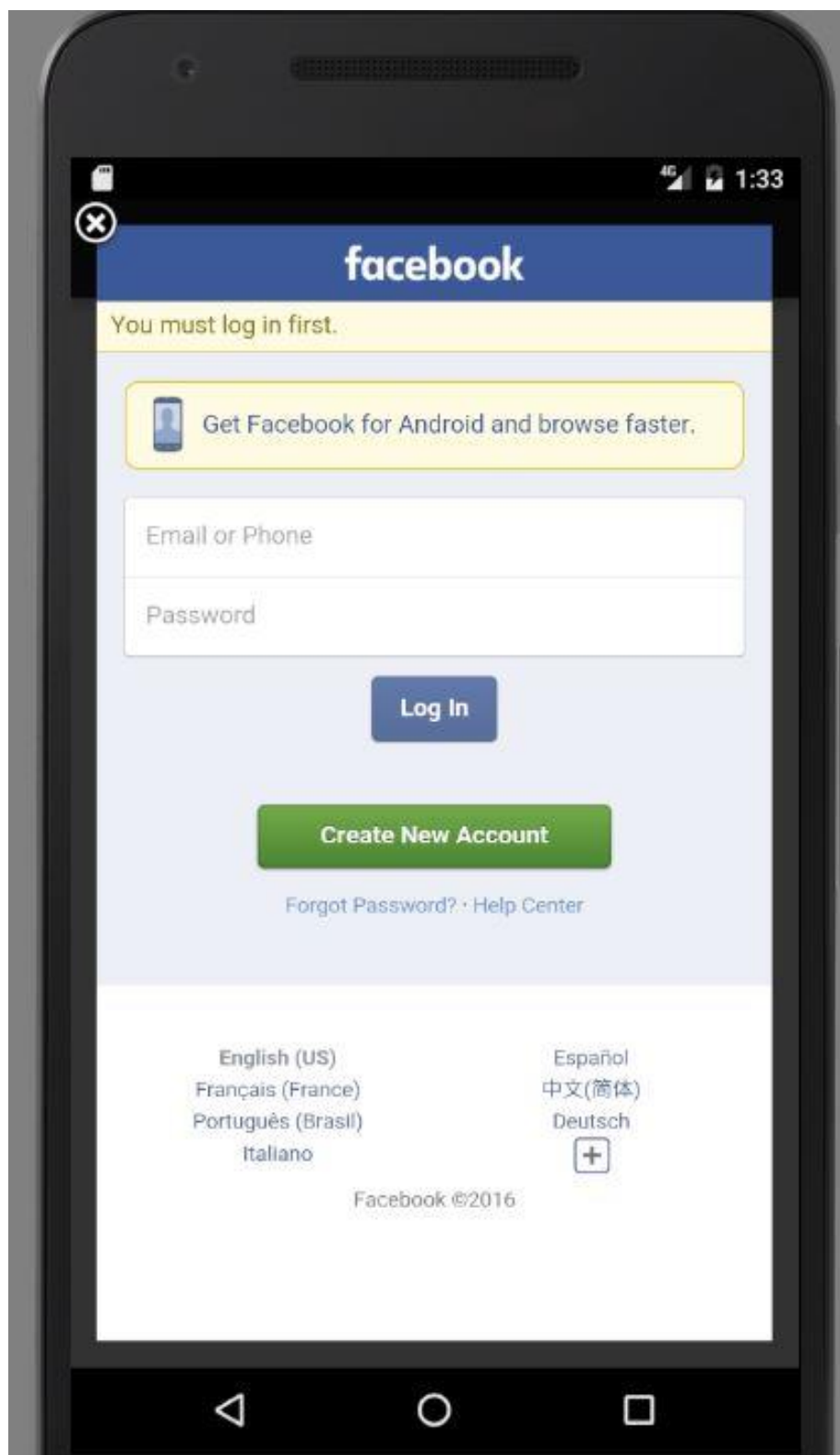
As A	I want to	So that
User		
	Create a login page as owner	I can post my property details
	Create a login page as Tenant	I can search for the available vacancies in Apartments
	Check the facilities of the apartment	I can check and get to a confirmation
	Check for a particular location	I can compare various search results
	Get the exact location using GPS	I can look for a nearest apartment to my work place
	Check for the Price Range	I can get the best facilities for that range

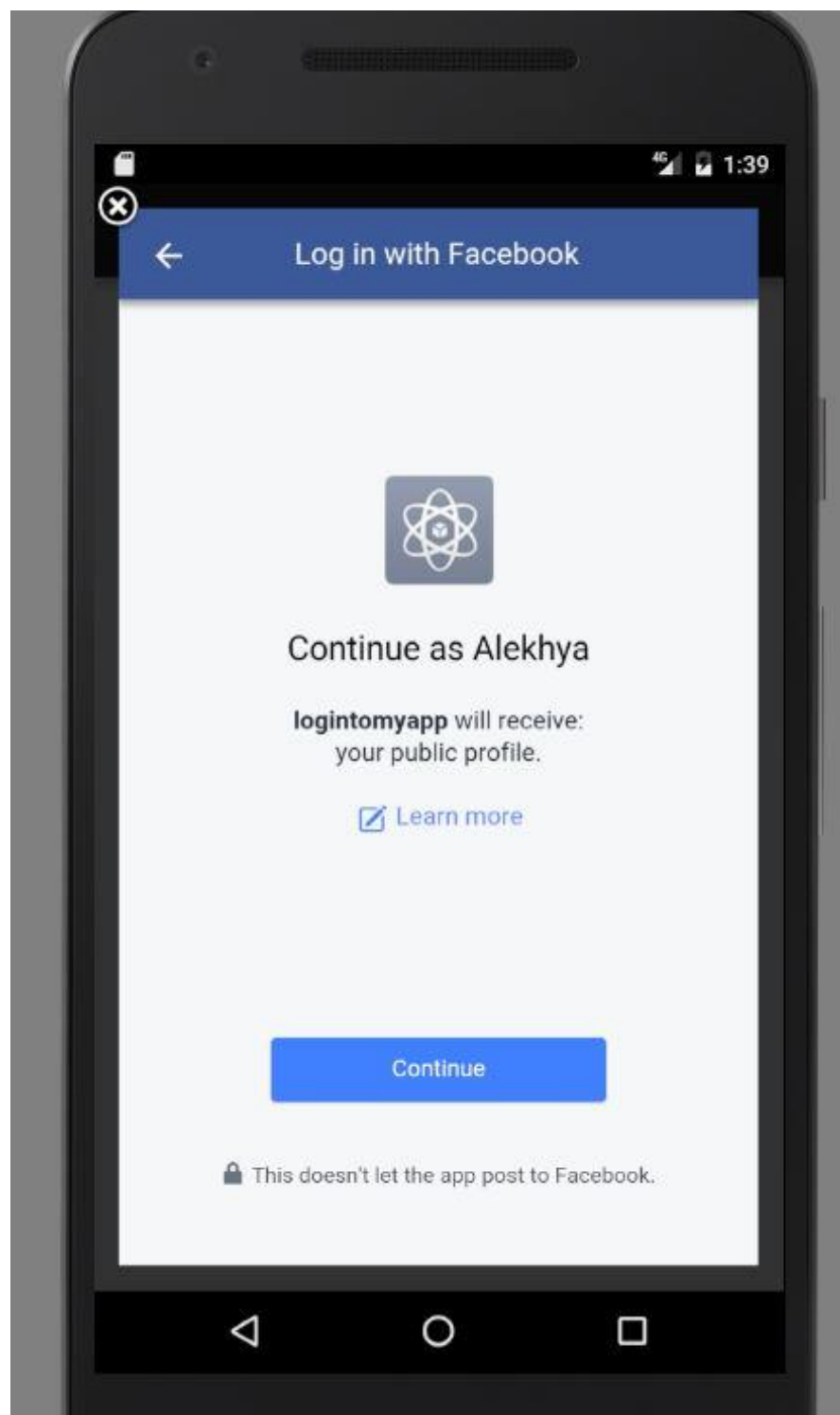
TEST CASES:

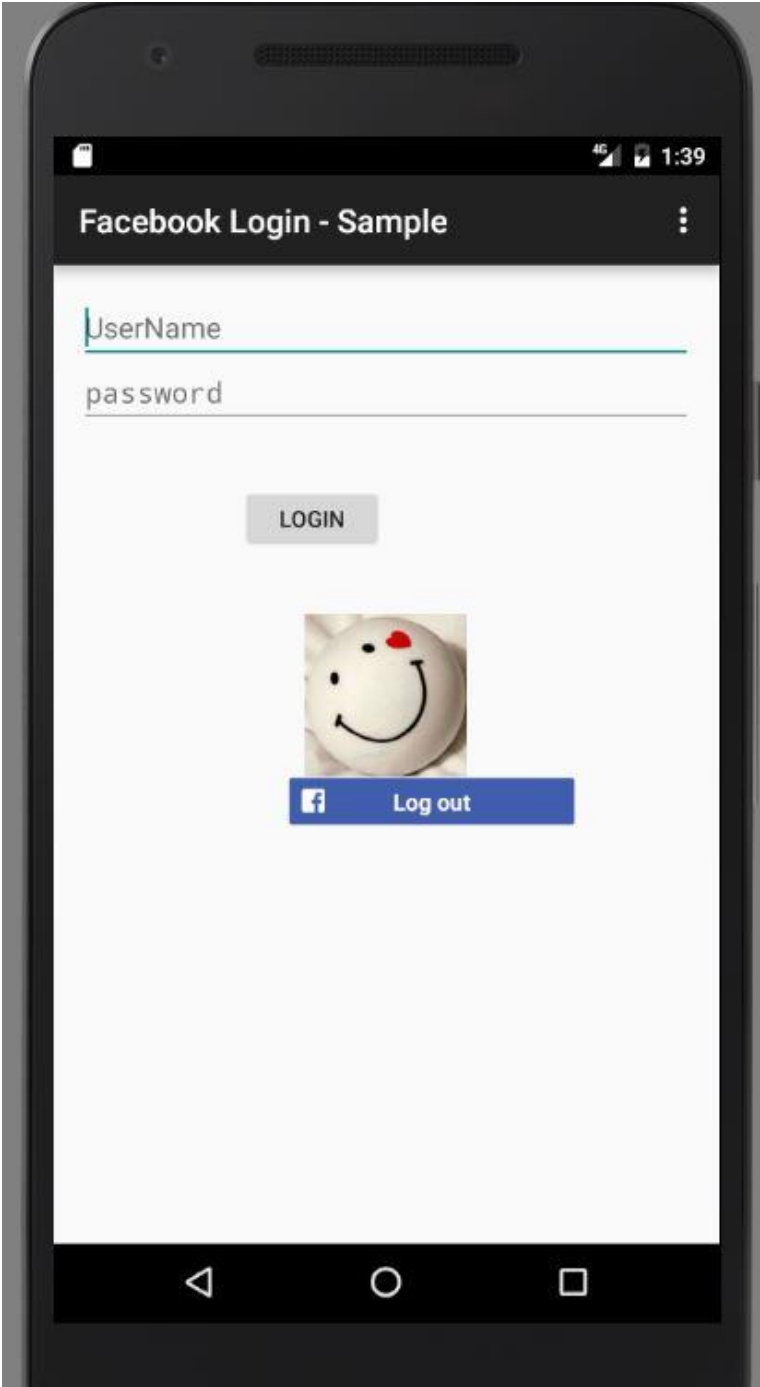
Test Case Name	Test Description	Expected Results	Pass/Fail
Login	Enter Invalid Userid and Invalid Password	Invalid Login Error Message should be displayed	Pass
	Enter Valid Userid and Invalid Password	Invalid Login Error Message should be displayed	Pass
	Enter Valid Userid and Valid Password	Application Should Be Redirected to Home page	Pass
Sign Up	Enter Email Id without @	Invalid Email id should be displayed	Pass
	Enter Password less than 3 characters	Please check the password instructions an try again	Pass
	Enter the Name field with numbers	Invalid Name should be displayed	Pass
Search Feature	Click on the Search Button	Should display the available apartments	Pass
Add Feature	Click on the add button	Should redirect you to a page to add new details	Pass

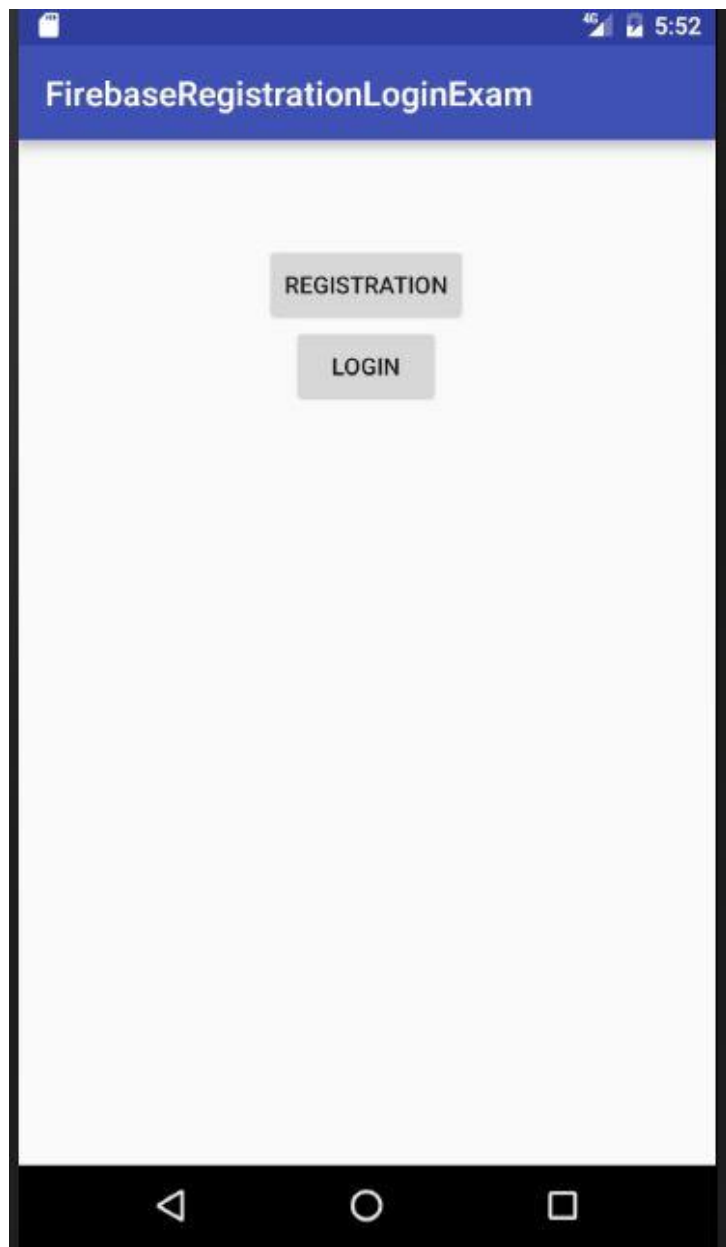
Final Screenshots













4G 5:54

FirestoreRegistrationLoginExam

Email Address:

Password

LOGIN

Registration successful

4G 5:55

FirestoreRegistrationLoginExam

Email Address:
alekhya@gmail.com

Password
...|

LOGIN

The password is invalid or the user does not have a password.





4G 9:29

Facebook Login - Sample



at 1200\$ with all amenities

on

ALEX KARREV



8167458953



Dallas, TX

CHAT WITH SELLER



4G 9:28

location



2BHK flat at 1200\$ with all amenities

lapez Barron



Flat with all facilities situated at center...

John



The flat provides full fledged facilities...

Zim warner



3bhk flat at kansas city in missouri near...

Kenneth J



excellent amenities at less cost with 4...

Adam smith



Provides you a good environment near t...

bary moore



2BHK flat at 1200\$ with all amenities

lapez Barron



Flat with all facilities situated at center...

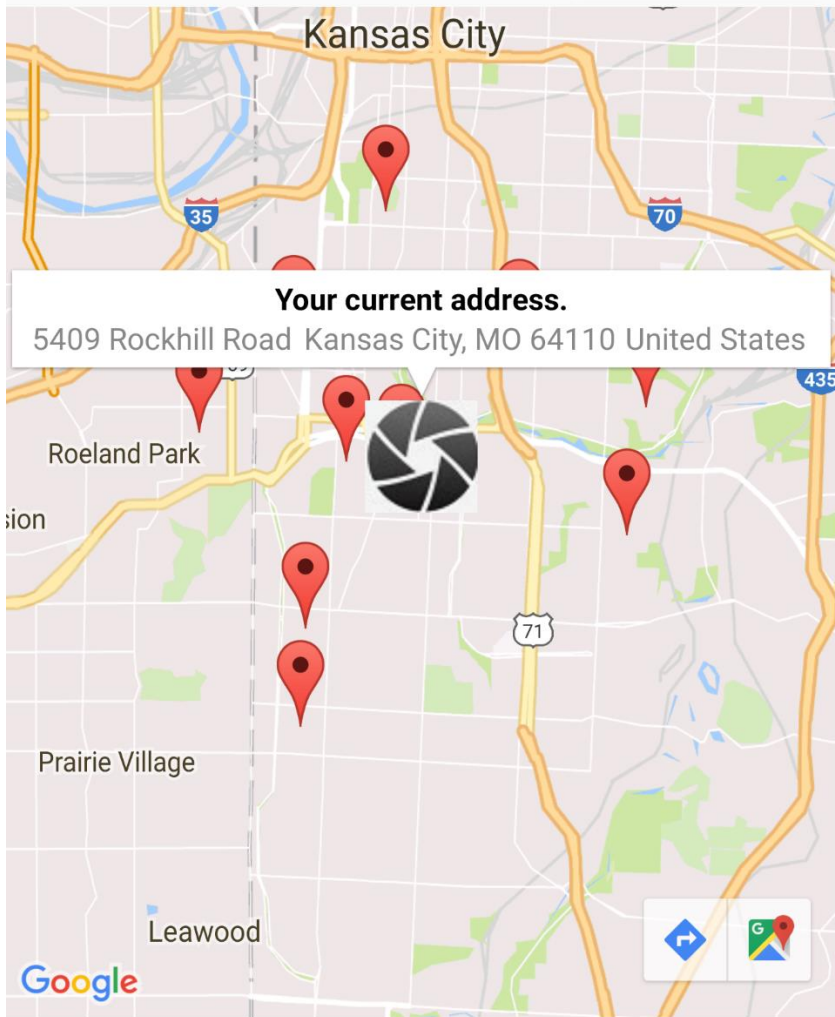
John



The flat provides full fledged facilities...



Enter city name



ho

SEARCH

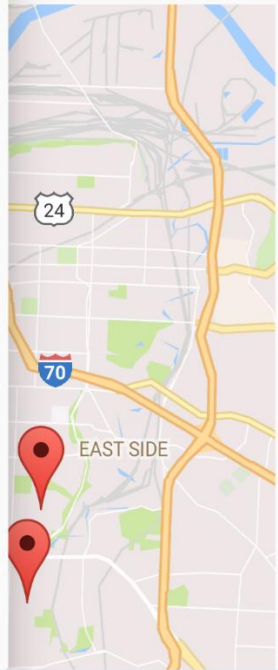
Houston

Hornsby

Hoxton park

House of crabs

houison street



Hi

hi

how



1 2 3 4 5 6 7 8 9 0
q w e r t y u i o p

a s d f g h j k l

↑ z x c v b n m ✕

? 1 😊

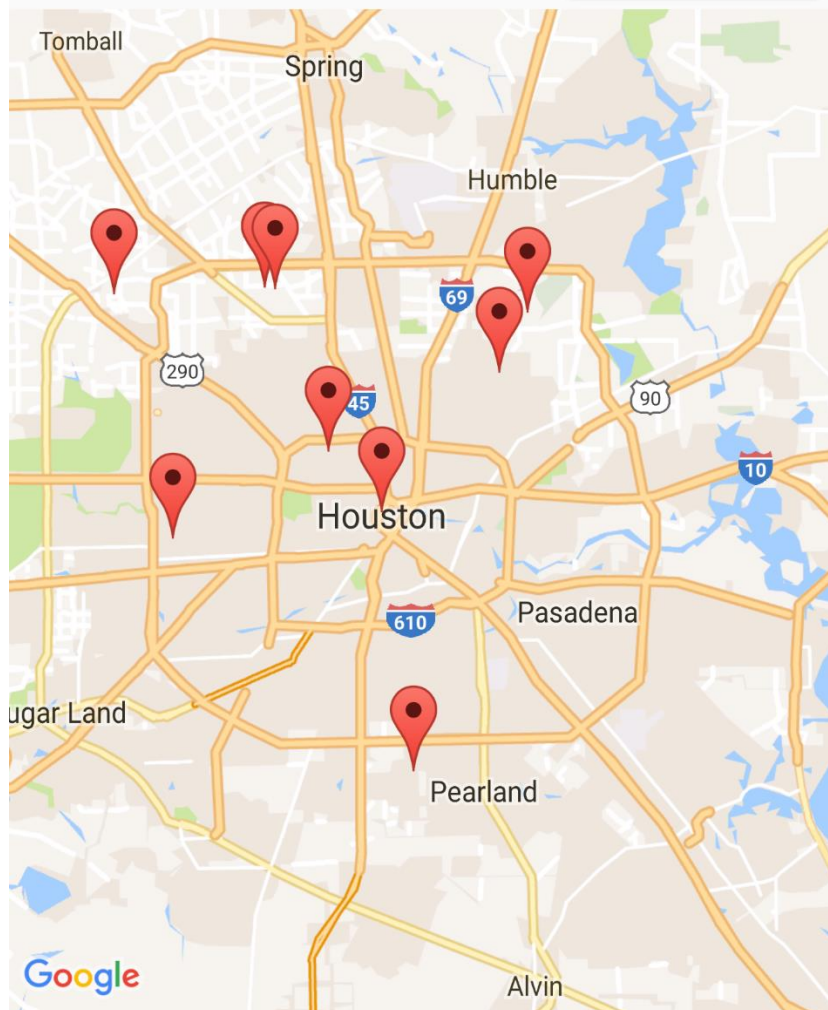
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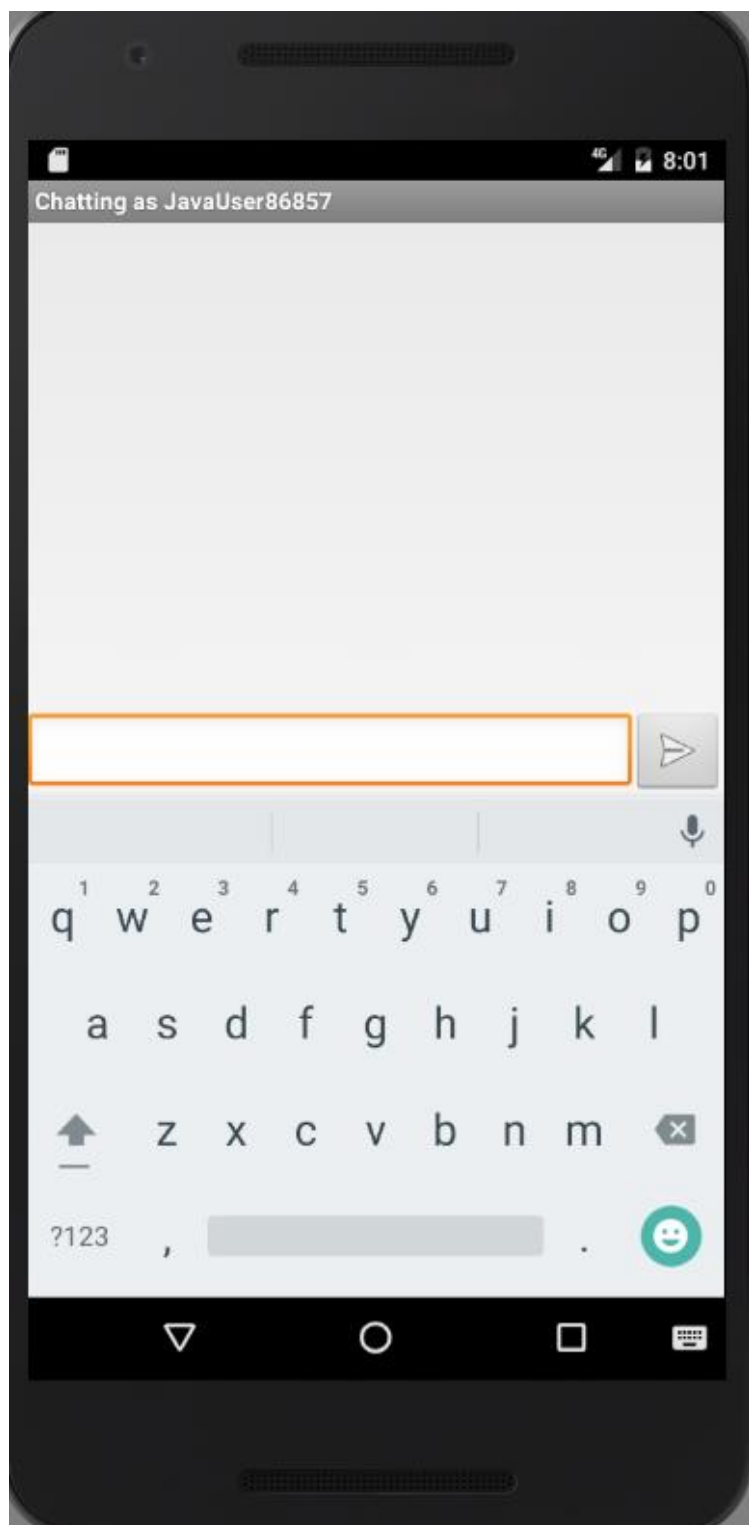
.



Houston

SEARCH







Chatting as JavaUser74196

javaUser74196: Hello world!

javaUser74256: why hello there.

