

CS 5551 Advance Software Engineering

FIRST INCREMENT REPORT

Locus

Team#7

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Project Proposal

Project Title: Locus

PROJECT GOAL AND OBJECTIVES:

MOVITATION:

How important is your vehicle to you? Do you treat it as your family member, if so what if your friend requests for the car to go for a ride with his girlfriend? Don't worry if you have "Locus" app with you anymore; you can track your vehicle anytime, anywhere wherever you are. Also, when you are traveling, the app reminds your favorite locations near to you.

SIGNIFICANCE/UNIQUENESS:

Our investigation for applications which provides location based services like reminders for favorite spots near current location, tracking vehicle, didn't fetch great results. This made us thinking about creating an application with advanced technologies that brings in real time and accurate information available to users all the time.

OBJECTIVES:

The objective of our web/ mobile application is to track their loved vehicle anytime, anywhere if shared to anyone till it reaches to him. Also, notifying his/her favorite spots available near to his current location when in travel. Our best efforts appear in presenting the most accurate and real-time data available to users all the time.

SYSTEM FEATURES:

- The user can track where the vehicle is moving.
- The user can estimate the arrival time of the vehicle.
- The user can find the distance traveled by the vehicle.
- The user can receive notifications about his favorite spots near his current location.

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 can login using his name email and the password. Here we will be using the Google Maps location API to get the current location of the user.

FEATURES:

1. Google Location Services: Google's location services is implemented as two features i.e Location Reporting, and Location History:
 - (1) Location Reporting is the feature that shows you places nearby, suggests local businesses, or helps you find the favorite spots by tracking the device.
 - (2) Location History is the feature that keeps track of where you've been, tracks the moving vehicle and for estimating the distance traveled by car using the smartphone.
2. Push Notification: Once the user sets his favorite spots, in case if there is any favorite spot nearby then a notification will be given to his device.
3. Map Locations: We are integrating the google maps to our application so that the user can view the exact location on the maps and locate the favorite spots nearby and also for tracking the vehicle.
4. Gesture Recognition: The gesture recognition API allows to register callback functions to be called when the user performs meaningful gestures like shaking the device which helps you display your favorite spots.

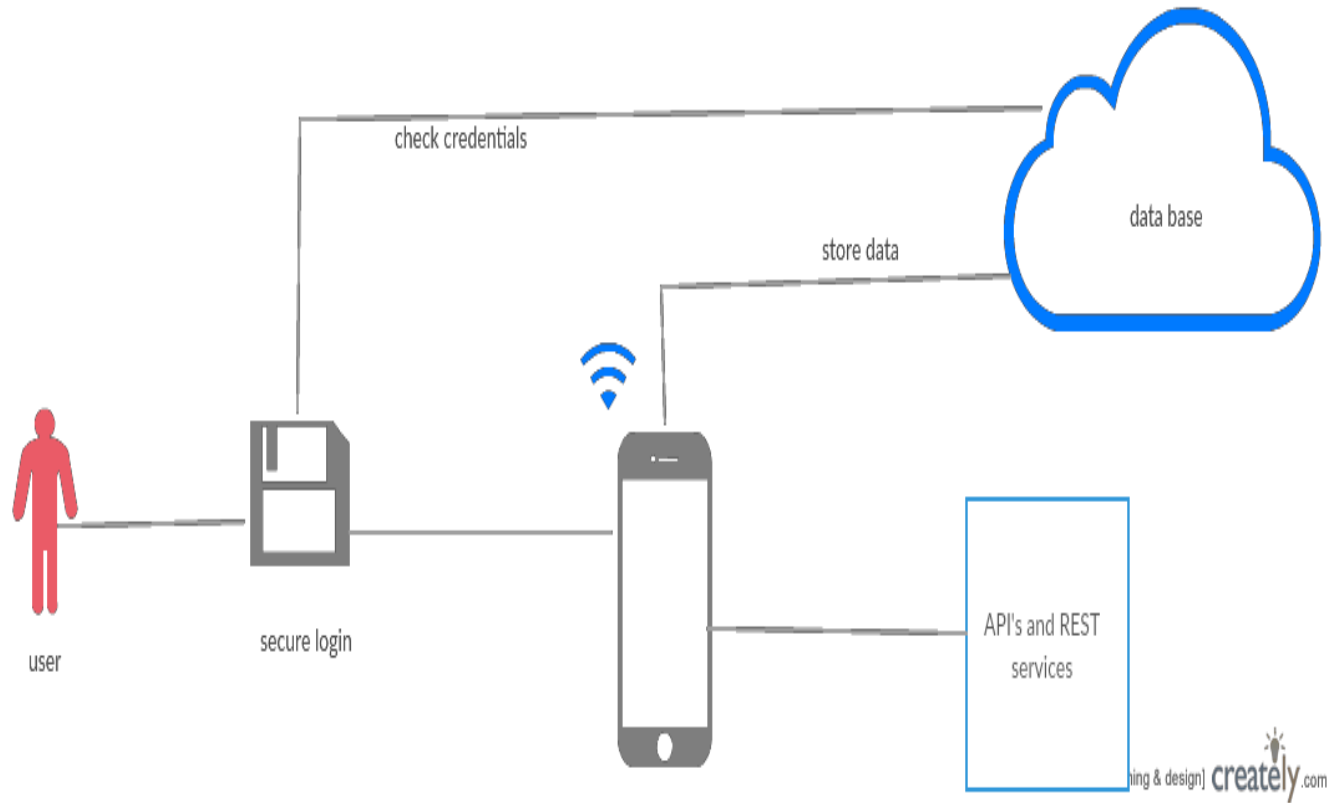
SERVICE DESCRIPTION:

1. Maps: Maps information is displayed using the Google Maps API which gives us the information about the houses in a locality.
2. Gesture Recognition: The gesture Recognition API is used to pin the favorite spots of the user using the Gesture Recognition Toolkit(GRT).
3. Locations: To get the auto locations fill we will be using the Auto Location fill API.

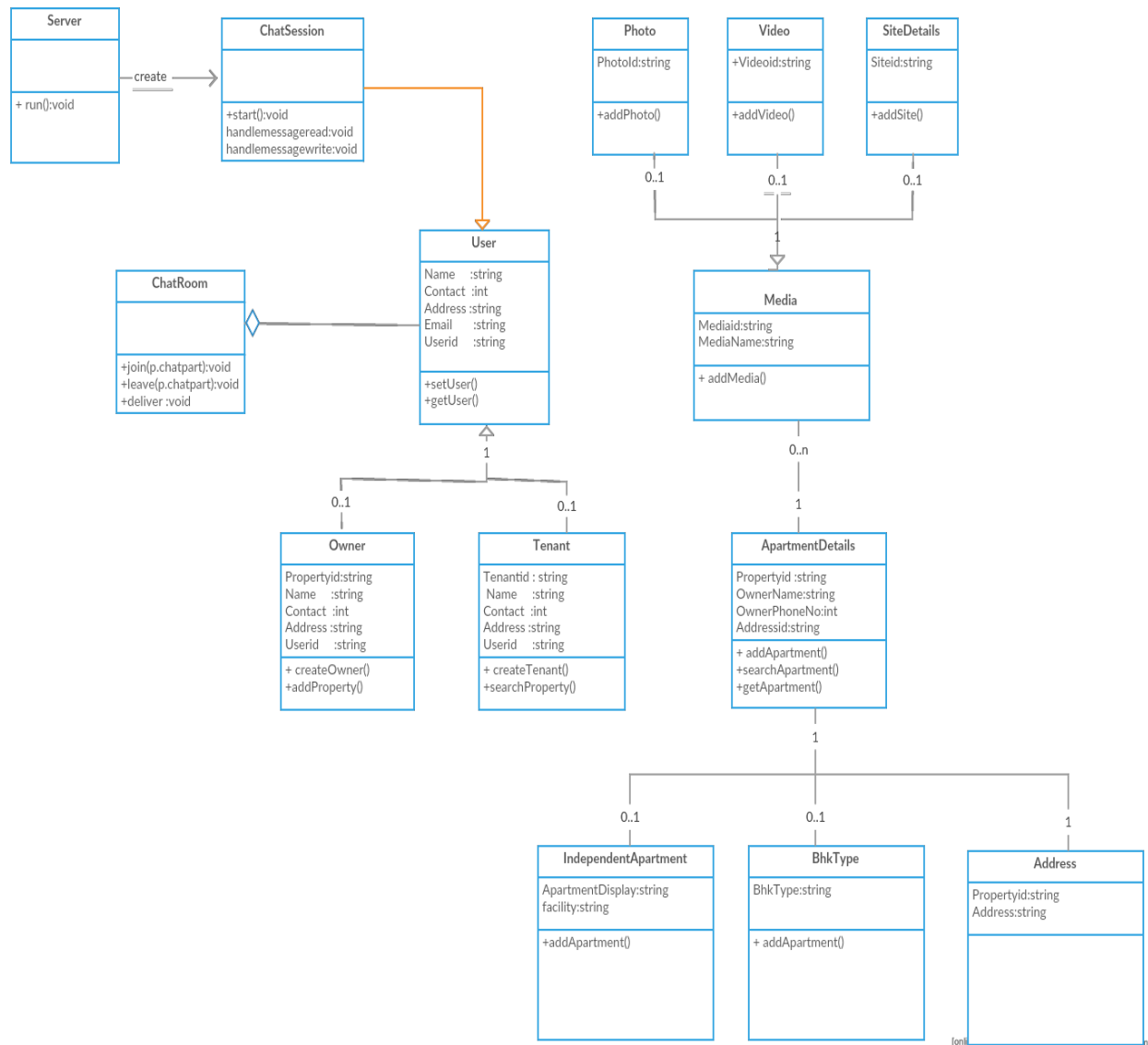
GITHUB URL:

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

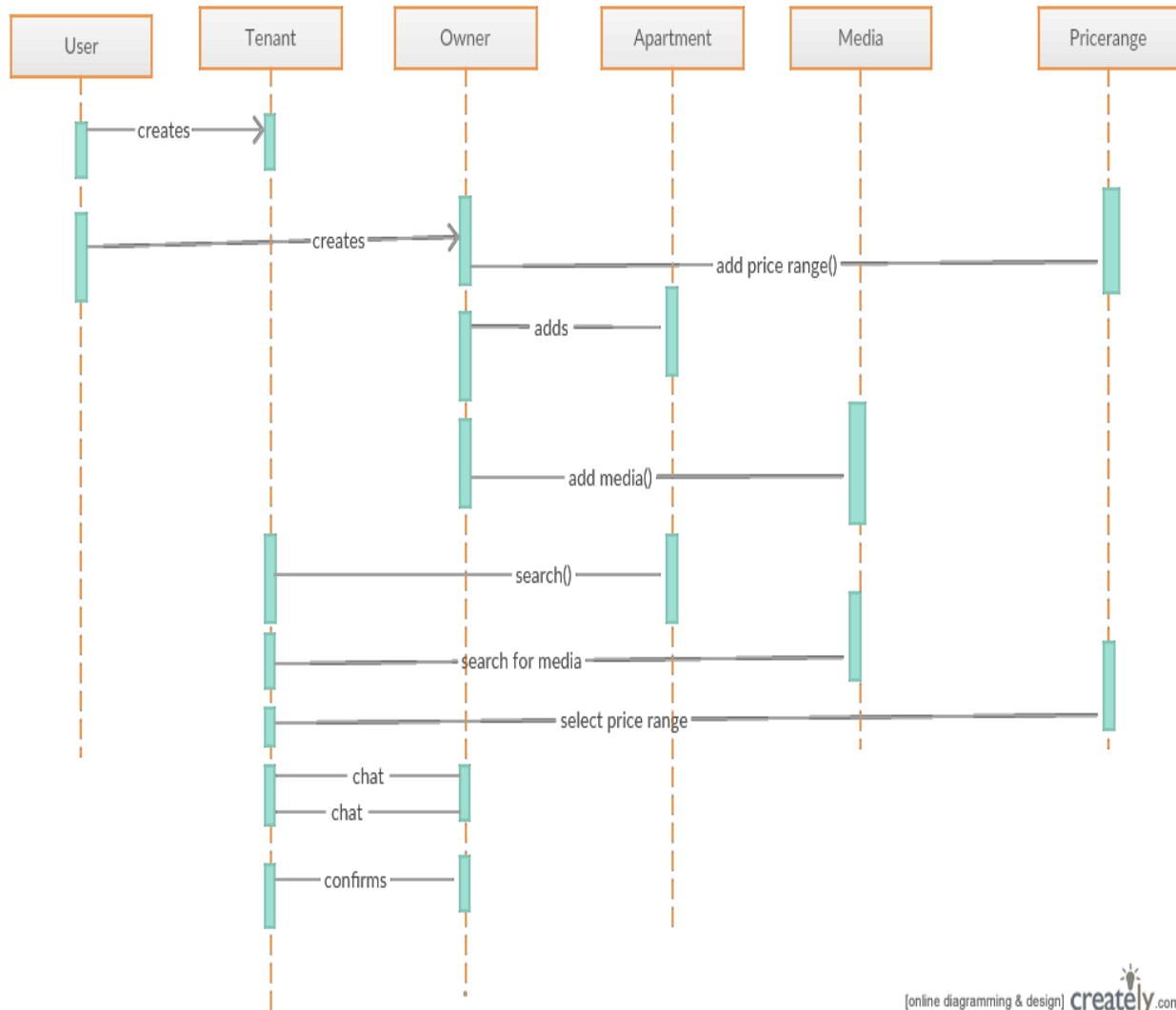
ARCHITECTURE DIAGRAM:



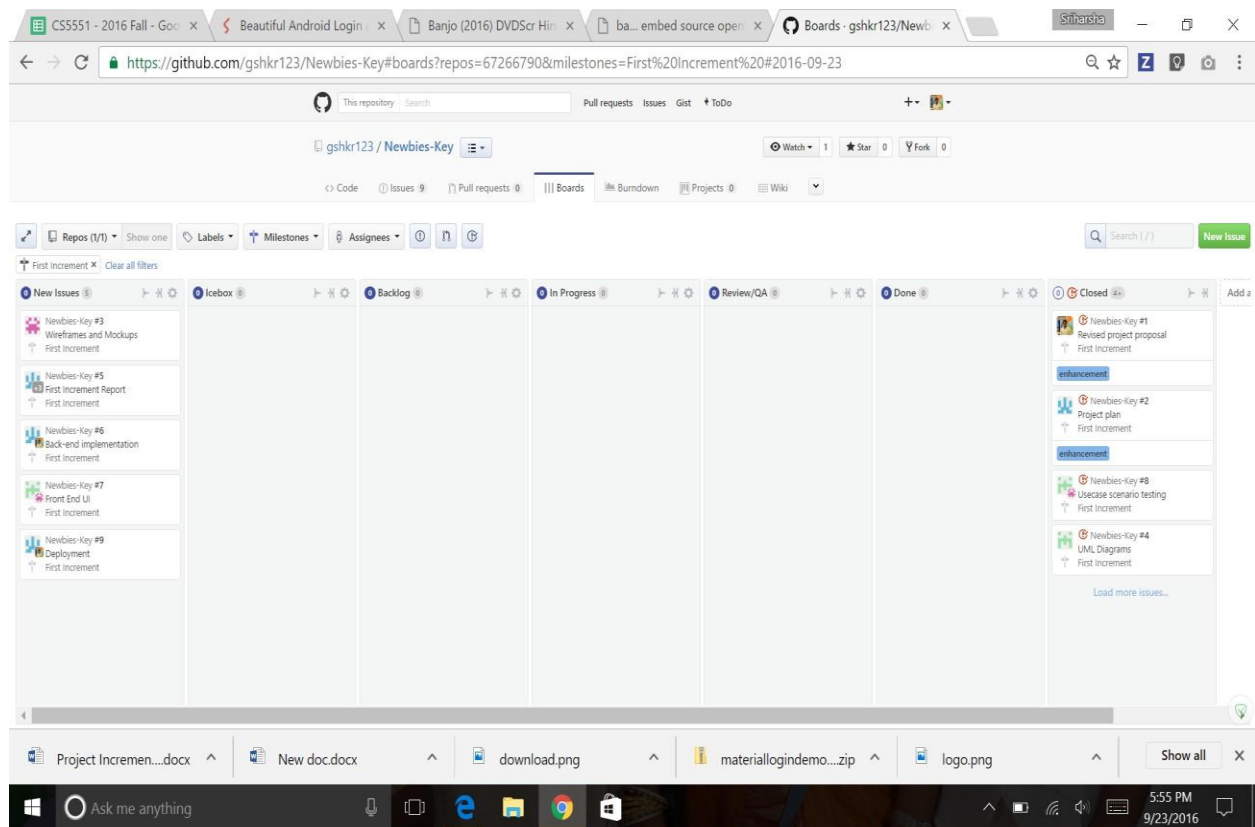
CLASS DIAGRAM:



SEQUENCE DIAGRAM:

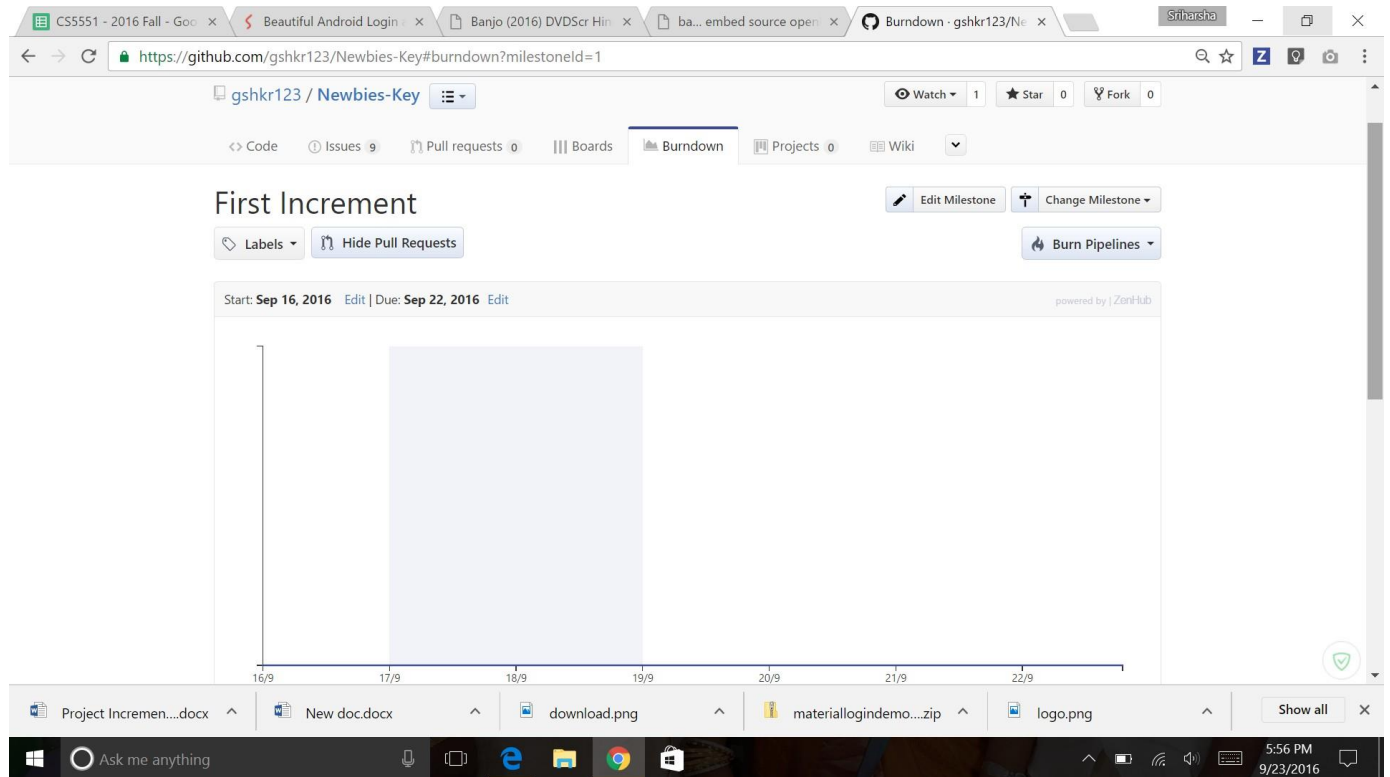


ISSUES TOOLBAR:



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 'create account' button.

Apartment Search

name

email


contact number

password

confirm password

create account

ADD APARTMENT PAGE



An 'Add Apartment' form with a white box and grey border. It starts with a 'SELLER' label in a dashed box. Below are fields for 'BHK' (with a dropdown), 'select type' (with radio buttons for 'flat', 'house', and 'villa'), 'price' (with a dropdown), 'description(optional)', and 'upload picture'. A blue 'POST' button is at the bottom.

-----SELLER-----

BHK

select type

☐ flat ☐ house ☐ villa

price

description(optional)

upload picture

POST

TENANT SEARCH PAGE:

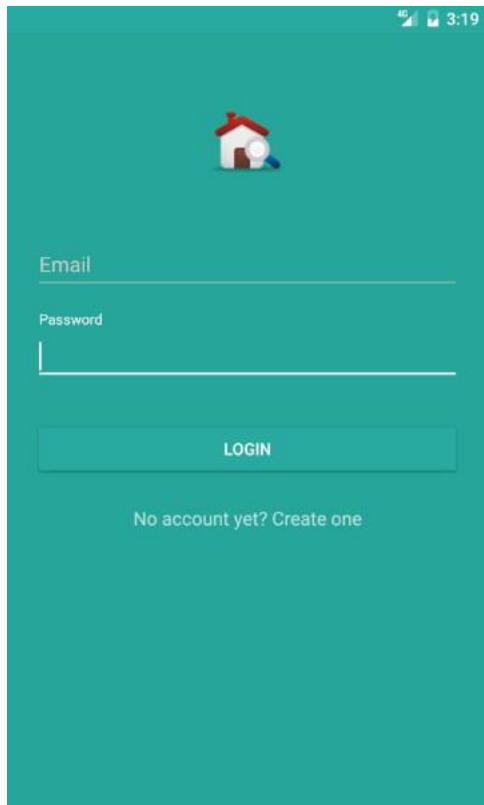


DETAILS OF A PARTICULAR PROPERTY PAGE:




MOCK-UPS:

LOGIN PAGE:



A mobile app login screen mockup with a teal background. At the top right, there is a status bar showing 4G, signal strength, and the time 3:19. In the center, there is a white house icon with a red roof and a blue door. Below the icon, there are two input fields: the first is labeled "Email" and the second is labeled "Password". Below the password field, there is a white "LOGIN" button. At the bottom, there is a link that says "No account yet? Create one".

4G 3:19



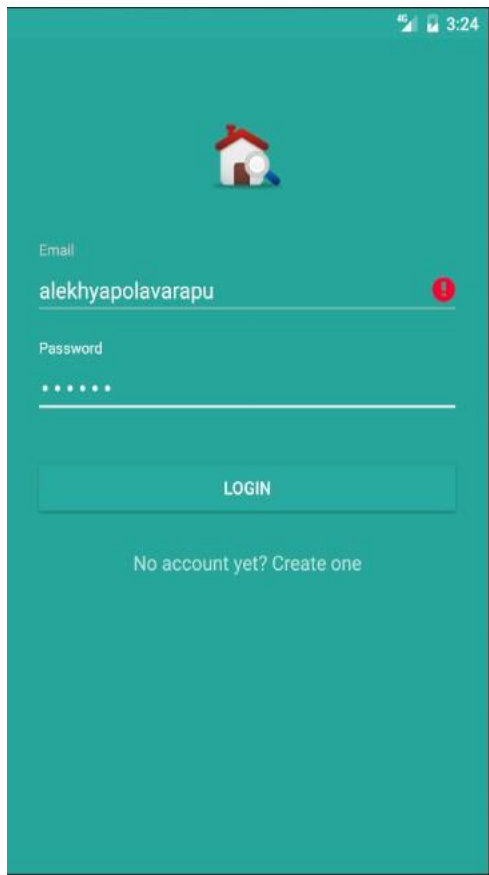
Email

Password

LOGIN


No account yet? Create one

LOGIN PAGE WITH VALIDATIONS:



A screenshot of a mobile application login screen with a teal background. At the top right, there are status icons for signal strength, battery, and the time 3:24. Below these is a white house icon with a red roof and a magnifying glass. The form consists of two input fields: 'Email' with the text 'alekhyapolavarapu' and a red error icon on the right, and 'Password' with six dots for masking. Below the fields is a white 'LOGIN' button. At the bottom, there is a link that says 'No account yet? Create one'.

3:24



Email

alekhyapolavarapu

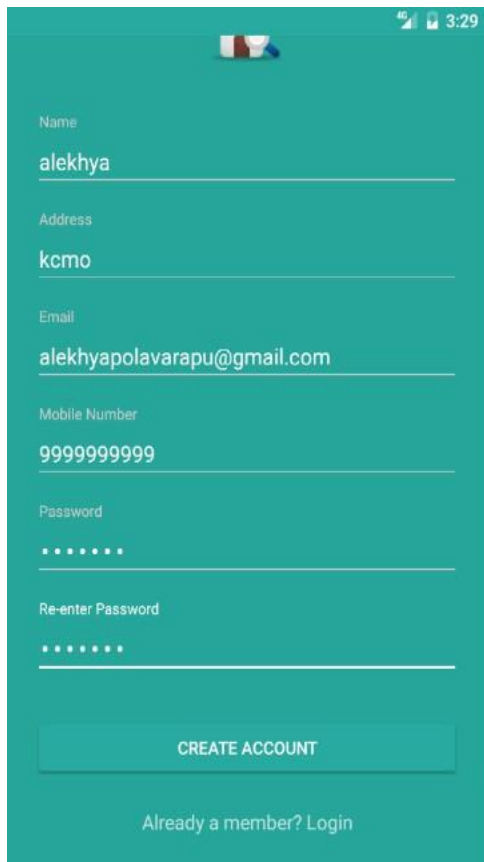
Password

•••••

LOGIN

No account yet? Create one

REGISTER PAGE:

A screenshot of a mobile application's registration page. The page has a teal background. At the top, there is a status bar with a signal strength icon, a battery icon, and the time 3:29. Below the status bar is a small profile picture placeholder. 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). Below the form is a large teal button labeled 'CREATE ACCOUNT'. At the bottom, there is a link that says 'Already a member? Login'.

USER STORIES:

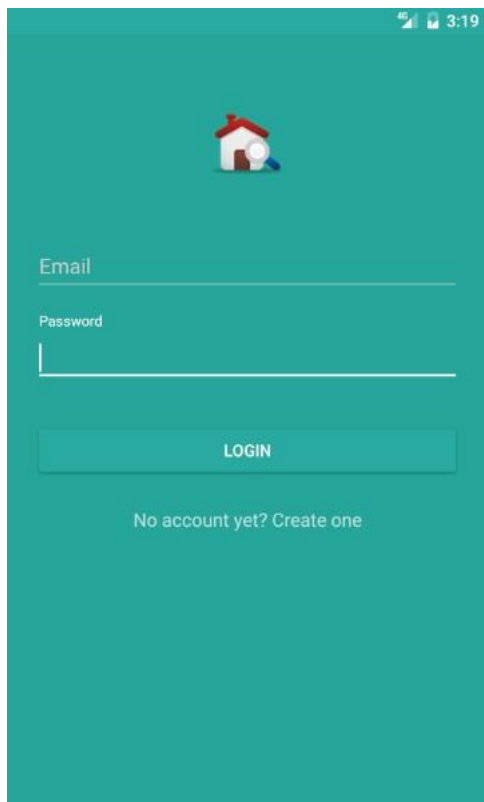
As A	I want to	So that
User		
	Create a login page as owner	I can post my property details
	Create a login page as Tenant	I can search for the available vacancies in Apartments
	Check the facilities of the apartment	I can check and get to a confirmation
	Check for a particular location	I can compare 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:

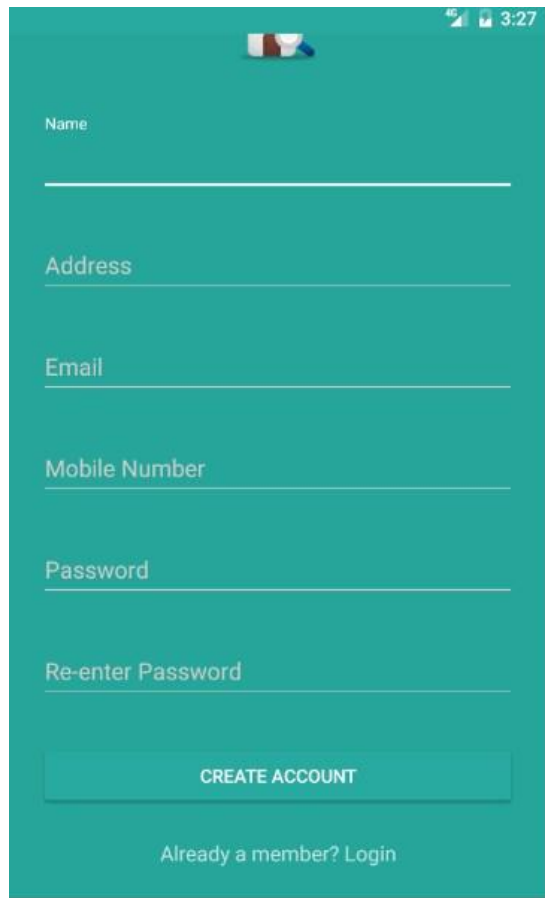
Test Case Name	Test Description	Expected Results	Pass/Fail
Login	Enter Invalid Userid and Invalid Password	Invalid Login Error Message should be displayed	Pass
	Enter Valid Userid and Invalid Password	Invalid Login Error Message should be displayed	Pass
	Enter Valid Userid and Valid Password	Application 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 SCREEN SHOTS:

LOGIN PAGE:



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 3:27. Below the status bar is a small profile picture placeholder. The form consists of six text input fields with labels: Name, Address, Email, Mobile Number, Password, and Re-enter Password. Each label is positioned above its corresponding input field. At the bottom of the form is a large teal button with the text "CREATE ACCOUNT". Below the button is a link that says "Already a member? Login".

4G 3:27

Name

Address

Email

Mobile Number

Password

Re-enter Password

CREATE ACCOUNT

Already a member? Login