

CS5551 ADVANCED SOFTWARE ENGINEERING
FALL 2016 – TEAM 16

FINAL PROJECT REPORT

Project Title: ROOKART



Team Members:

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4. Raghu Pavan, Vallamkonda (54)

Youtube URL: Please find the Rookart Application Video on Youtube.

<https://www.youtube.com/watch?v=EHzLHgLfT5M&feature=youtu.be>

Github: <https://github.com/ASE-Team16/RooKart>

PPT: <https://github.com/ASE-Team16/RooKart/blob/master/Rookart%20PPT.pptx>

Index

- 1. Introduction**
- 2. Project Proposal**
- 3. Increment - I**
- 4. Increment - II**
- 5. Increment - III**
- 6. Increment - IV**
- 7. Project Deployment**
- 8. Project Management & User Manual**
- 9. Bibliography**

1. Introduction

RooKart is an UMKC people group based e-business android application which engages Students and Staff individuals bearing a substantial enrolled UMKC Email id, to Sell or Buy Products, Offer Services, Post Classified Advertisements, Offer Deals on Demand and so on.

As every one of the exchanges and Product and Services are traded in the middle of the University related group High Reliability, Easy Shipping and Quality administrations are ensured.

When client is enrolled with RooKart, the client will ready to see, every one of the items and administrations at present accessible on the available to be purchased Such as Electronics, Furniture and so forth available to be purchased or Painting Classes, Fitness Class, Cooking Services and so on.

Client as a Seller can post their Products available to be purchased on Categorized Platforms gave by Rookart with the Complete history of the Product with pictures, Geo-area and Price sum and so on. So also, User can post every one of the administrations they wish to offer with finish depiction, pictures, valuing points of interest and span, geo-areas and so on.

This Project is isolated into four Iterations to implement the functionality.

2. Project Proposal:

PROJECT GOAL AND OBJECTIVES: To Provide an Online Market Platform for UMKC community.

Motivation: University community face unexpected experiences and delays by shopping online from various ecommerce sites for general products and for vital services. An online on campus market allows these communities to sell, buy and rent goods and offer reliable services among themselves in quick manner and in a safer environment.

Significance: RooKart empowers student and faculty to sell and buy products, offer reliable services, post classifieds, offer deals within the UMKC community. As all the services offered are between campus related people, easy shipping, high reliability and quality services are guaranteed.

Objectives: To develop an ecommerce application, with presence on both web and mobile platforms, to serve among the campus community in order to provide

reliable services, classified advertisements and pre-owned product sales and rental operations.

System Features:

RooKart allows UMKC Community:

- To register and create an account.
- To provide the description and specifications of the Product or service user wishes to provide.
- To browse and choose the required products or services from the available options, powered by a search engine.
- User can post classified ads and services they wish to offer along with description and pricing specifications.
- Buyers can rate sellers and provide a review about their experiences.
- User can communicate among themselves over messages/ call through the application.
- User can meet at a specific location for trade.
- Weekend open sales can be conducted at location where students and faculty can buy or sell according to their requirements.

Related work:

1. A survey conducted to find the requirement of on campus ecommerce application.
2. IJARCS&SE

Backup Project: Team UP – Mobile Social Network application

Team-Up allows the users to form groups depending on their specific common interests. Users can communicate among themselves through the internal chat application. User can plan and organize events and invite other users based on common interests. Users can post news and their group and individual activities. Team-Up can suggest friends based on the common interests. Users can share location, attach files, media contents with other users. Users can post their stories to Social media applications.

3. Increment - I:

3.1 Functionalities implemented as part of this increment:

3.1.1 Login Page:

Login Page is the landing page upon opening RooKart application, Login page lets the user to login upon successful validation of user credentials. User needs to input registered email id and password. If the user does not have an account on RooKart, he should register.

3.1.2 Register Page:

Register page collects the personal information of the user such as, User Name, Email ID, Password and Mobile Number and creates an account for the user.

3.1.3 Home Page:

Once the user account is verified, Post Login user is redirected to this Home Page, which offers the in app services as Products and Services. Upon on selecting one the user is redirected to the Product/ Service Page.

3.2 Proposed System

Functional Requirement Specification:

- User Should have a sign in.
- If User is new to RooKart User should Register
- User should be able to Provide Personal Information.
- User details are need to be validated.
- Upon Successful login User should see the Home Page – Product and Services page.
- User be able to Logout.

3.3 Tools and Technologies:

- ANDROID STUDIO
- Front end: JavaScript
- Programing Language: Java
- Creately

3.4 Development:

System Design

Login: Users login using their registered UMKC email address and password.

Registration: Collects the personal information of the user and creates an account.

Information Collected: User Name, Email id, Password, Phone Number.

Home page: Consists two buttons, Products, Services.

3.5 User Interface:

Login UI: Implement Login Activity UI Design

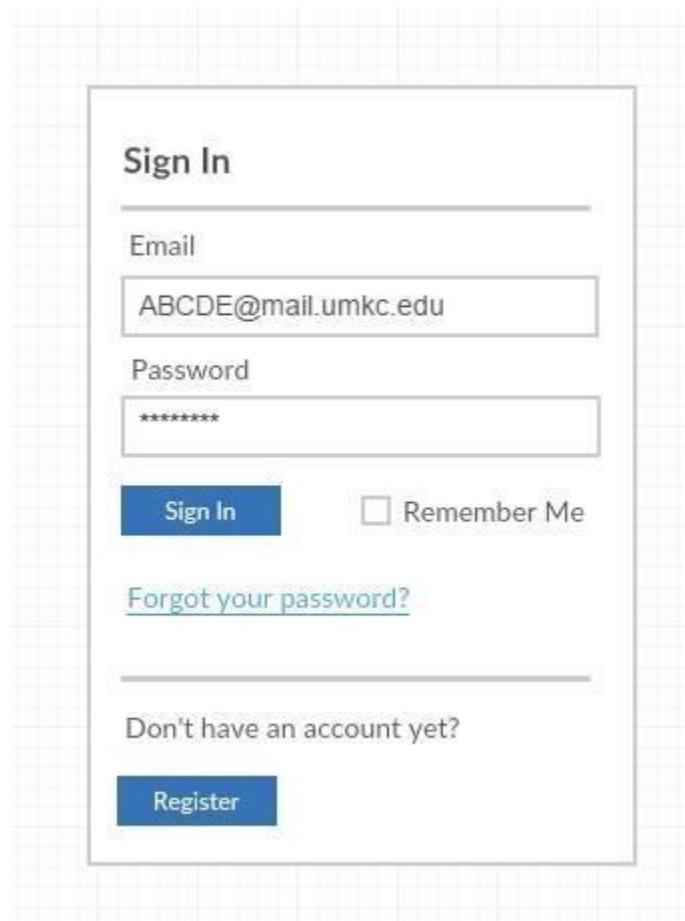
Register UI: I Implement Register Activity UI Design

Home Page UI: Implement Home Page Activity UI Design.

3.6 Wire Frames:

3.6.1 Login Page Wire Frame:

- Login page has two buttons, Login and Register.
- If the user is a new user to Rookart he can register using the Register button.
- Here is the Login Page Wire Frame.



The wireframe shows a rectangular form with rounded corners. At the top left is the title "Sign In". Below it is a horizontal line. The next section is labeled "Email" with a text input field containing "ABCDE@mail.umkc.edu". The following section is labeled "Password" with a text input field containing "*****". Below these fields are two buttons: a blue "Sign In" button on the left and a "Remember Me" checkbox followed by the text "Remember Me" on the right. Underneath these buttons is a link "Forgot your password?". A horizontal line separates this from the bottom section. The bottom section contains the text "Don't have an account yet?" and a blue "Register" button at the bottom.

3.6.2 Registration Page:

- If the user is a new User he can Register on clicking Register button, Register Page collects the user's personal information such as User Full Name, Email id, Password and Phone Number.

Register ROOKART

Full Name

RAGHU PAVAN

Email

ABCDE@mail.umkc.edu

Password

Mobile Num

I have read and agree to be bound
by the Terms and Conditions and
Privacy Policy

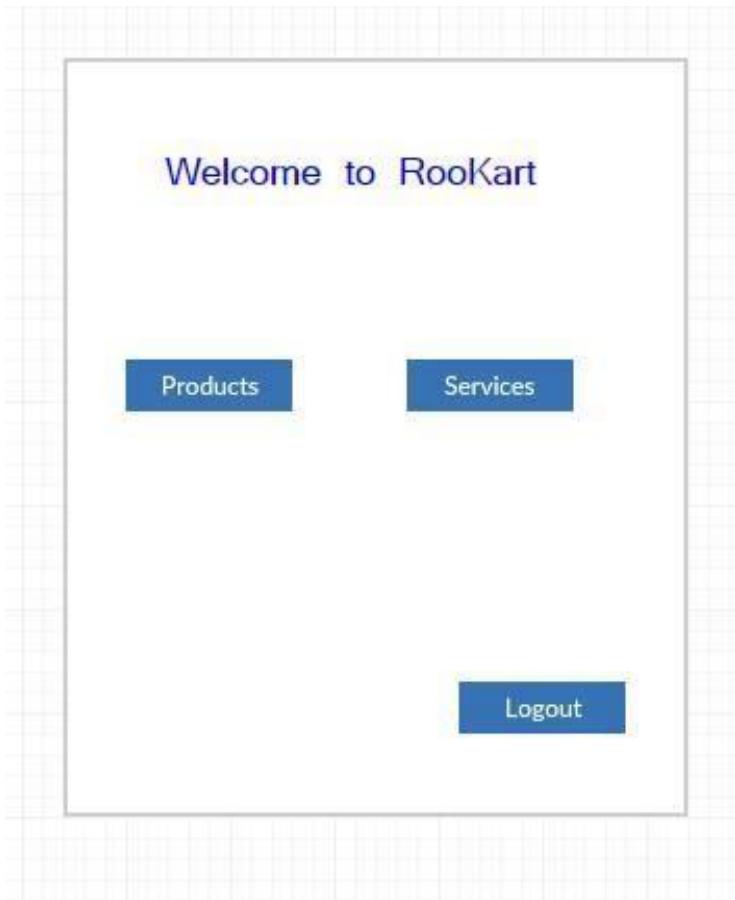
Register

Already Registered?

Login

3.6.3 Home Page:

- Post the Login, the user is redirected to the Home Page. Home page consists of two buttons, Products and Services.



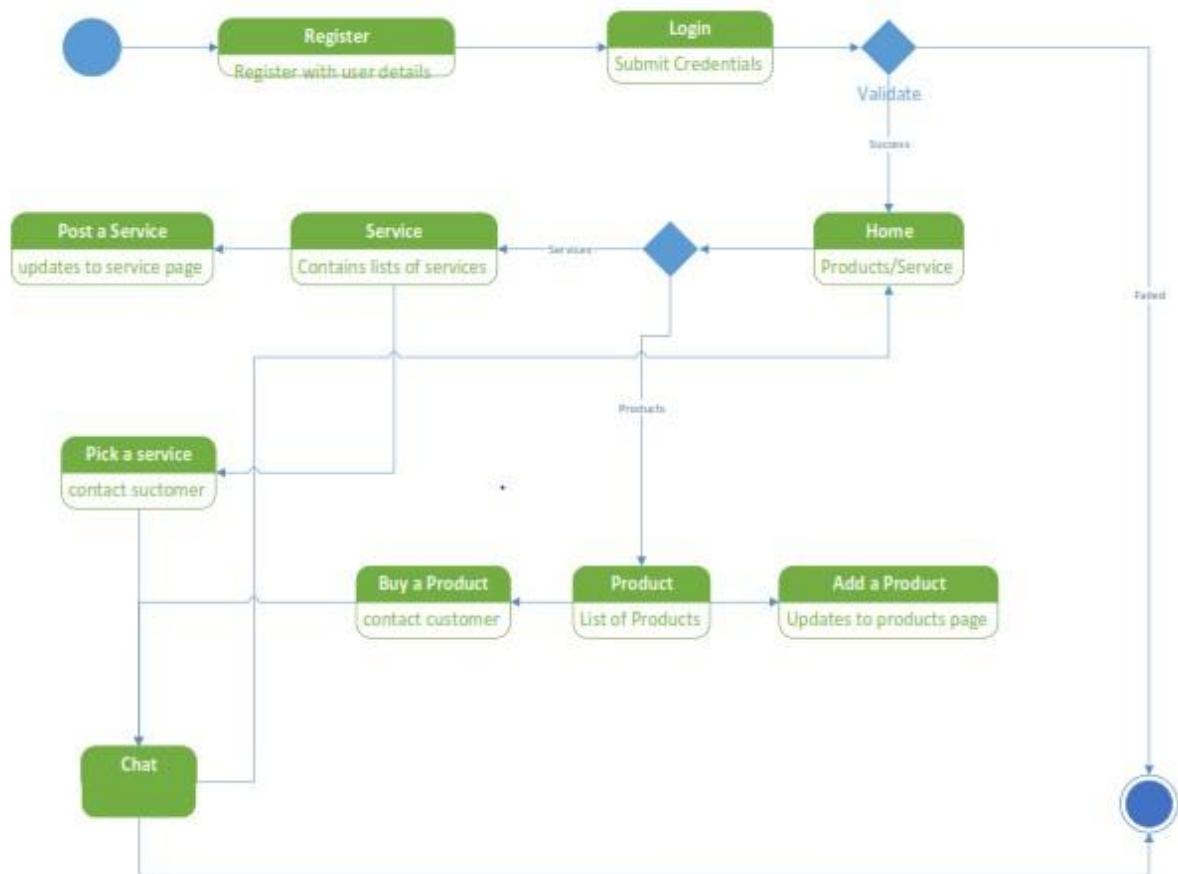
3.7 Class Diagram:

The class diagram below describes the flow of the system and process.

- User Class had variables such as User Name, Email, Password, Phone number. These details are used for registration. Post registration user can login using Email and Password. Then the system validates the credentials using Authentication function and redirects the user to Home Page.
- On the Home Page, two functionalities are Provided which are Products and Services. User can select one among them at a time. On click functionality is enabled for both and they redirect the user to the respective pages.

- **Product Page:** It consists of two functionalities, Buy a Product, Sell a Product. Service Page: Post a Service, pick a Service functionalities are provided.
- The above sequence diagram represents the complete process of this project. As the above screenshot shows, the registration process is prior to the login, after registration is completed login function takes place. Upon Successful login the view home function follows.

3.8 State Diagram:

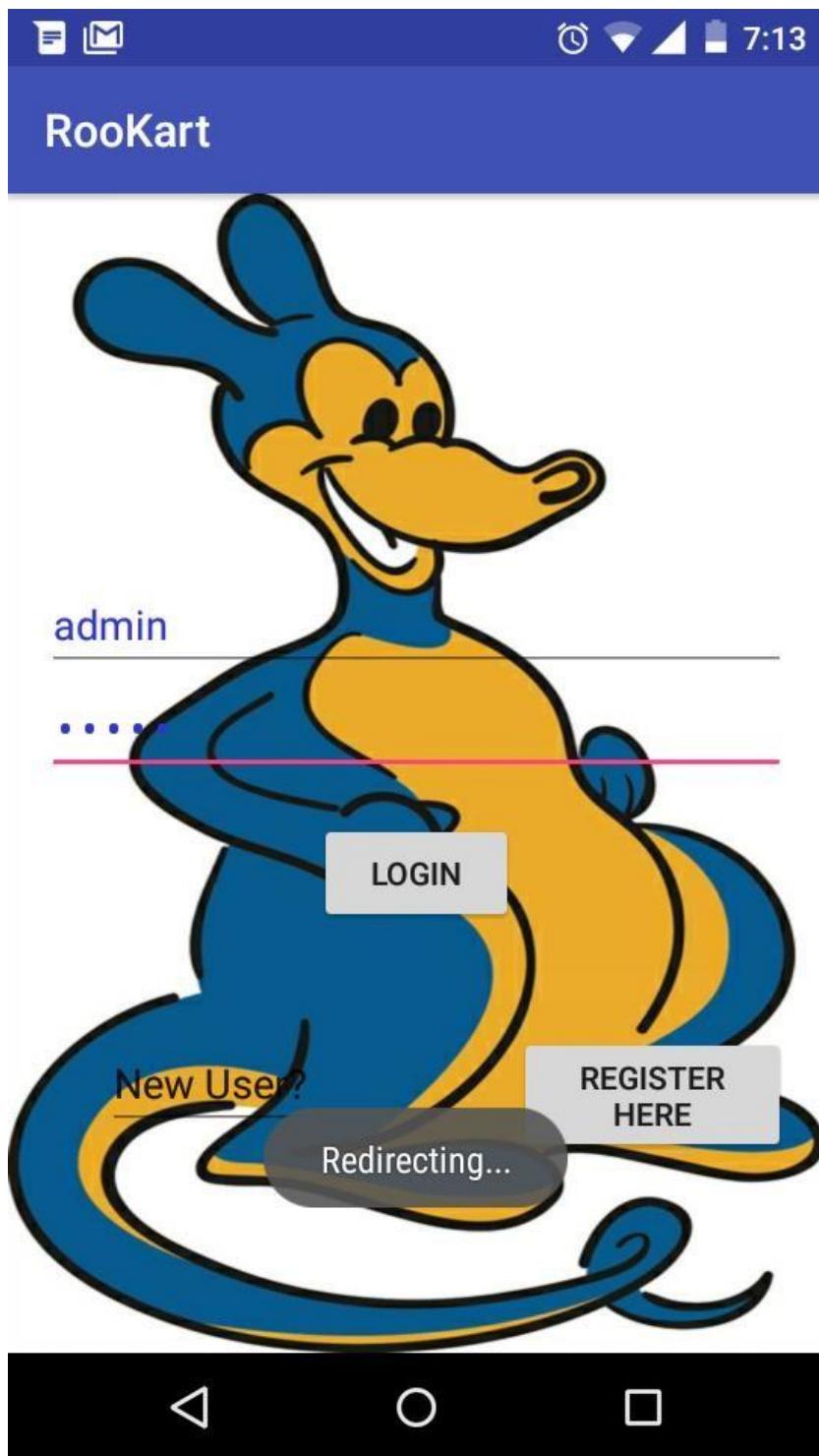


The above screen shot of the State Diagram represents the different states of the application. Upon Successful Registration, it Navigates to the Login State, after the credentials validation by the authentication function the it redirects to the Home State, upon Selection among the Product or services, user is navigated to the respective Product or services state depending on the state chosen by the user.

3.9 Layouts:

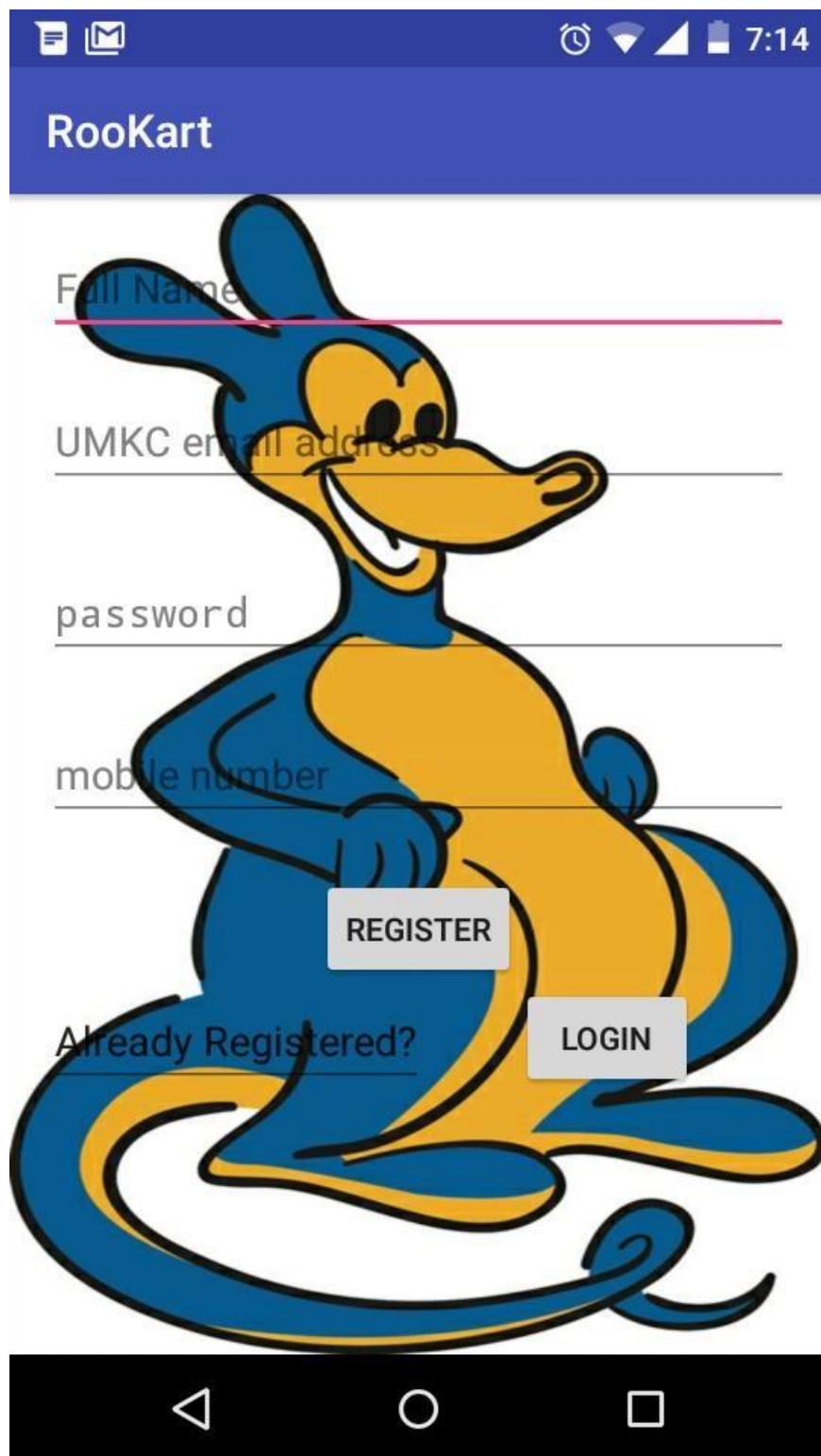
3.9.1 Login Page:

The below screen shot shows the login page after credential validation of the user, with User Name and Password as “admin”.



3.9.2 Register Page:

Register Page Screenshot.



3.9.3 Home Page:

The below Screen shot shows the Home Page of RooKart application.



3.10 Project Management:

Increment 1:

- Plan the increments to create RooKart Application.
- Finalize & document revised project plan.
- Setup the required tools android studio, zenhub and Github, visio for each of the team members.
- Document the revised project plan.
- Design Wireframes & Mockups.
- Create Architecture diagram.
- Design Sequence & Class diagram.
- Develop the Login, Registration & basic home screen
- Deploy the RooKart Android app to a mobile device
- Validate the Rookart App for basic functionalities - Login, Register & Home screens.
- Create a wiki page and project report for increment 1.

Increment 2:

- Validate & authenticate the users during registration.
- Setup local databases for the application.
- Implement the functionality for the user to add products that they want to sell.
- Implement the browse functionality for buying the products using search/view options.
- Validate the product buy, sell and browse functionalities.

Increment 3:

- Implement the functionality to communicate with other users for selling the product over messages/ call through the application.
- Functionality for the user for posting classified ads and services they wish to offer along with description and pricing specifications.
- Validate the user communication functionality.
- Validate the RooKart services functionality.

Increment 4:

- Enhancements for the application using externally available API's.
- Refine the GUI for RooKart buy/sell & service functionalities.
- Deploy and validate the entire RooKart Application.

Increment Milestones:

The screenshot shows a list of milestones in a project management system. There are four milestones listed: Increment 1, Increment 2, Increment 4, and Increment 3. Each milestone has a progress bar indicating completion status, the number of open issues, and the number of closed issues.

Milestone	Progress	Open Issues	Closed Issues
Increment 1	92% complete	1 open	12 closed
Increment 2	0% complete	3 open	0 closed
Increment 4	0% complete	2 open	0 closed
Increment 3	0% complete	2 open	0 closed

Increment 1 - User Stories:

The screenshot shows a GitHub repository page for ASE-Team16 / RooKart. The repository has 13 open issues. The user stories listed are:

- Story 1.1 : Plan the increments to create RooKart Application
- Story 1.2 : RooKart App - Finalize the project plan
- Story 1.3 : RooKart App - Document the revised project plan
- Story 1.4 : RooKart App - Design Wireframes & Mockups
- Story 1.5 : RooKart App - Create Architecture diagram

<input type="checkbox"/>	 ⓘ Story 1.6 : RooKart App - Design Sequence & Class diagram	
	#6 opened 38 minutes ago by Lavakumar90  Increment 1	
<input type="checkbox"/>	 ⓘ Story 1.7 : As an user, I will be able to login to the RooKart application	
	#7 opened 37 minutes ago by Lavakumar90  Increment 1	
<input type="checkbox"/>	 ⓘ Story 1.8 : As an user, I need to have options to register as a RooKart member	
	#8 opened 36 minutes ago by Lavakumar90  Increment 1	
<input type="checkbox"/>	 ⓘ Story 1.9 : As an user, I should be redirected to Home screen once the login is successful	
	#9 opened 36 minutes ago by Lavakumar90  Increment 1	
<input type="checkbox"/>	 ⓘ Story 1.10 : Deploy the RooKart Android app to a mobile device	
	#10 opened 35 minutes ago by Lavakumar90  Increment 1	
<input type="checkbox"/>	 ⓘ Story 1.11 : Validate the Rookart App for basic functionalities - Login, Register & Home screens	
	#11 opened 35 minutes ago by Lavakumar90  Increment 1	
<input type="checkbox"/>	 ⓘ Story 1.12 : Create a wiki page for increment 1	
	#12 opened 34 minutes ago by Lavakumar90  Increment 1	
<input type="checkbox"/>	 ⓘ Story 1.13 : Create increment 1 project report	
	#13 opened 34 minutes ago by Lavakumar90  Increment 1	

Burn down Chart

ASE-Team16 / RooKart 

 Watch 0  Star 0  Fork 0

[Code](#) [Issues 1](#) [Pull requests 0](#) [Boards](#) [Burndown](#) [Projects 1](#) [Wiki](#) 

Increment 1

 Edit Milestone  Change Milestone 

This increment/iteration includes three parts: 1) Revised Project Proposal: The Project proposal should be revised and the latest document should be prepared.

2) Project plan a. Schedule for the four different increments (for each increment, do the following tasks) Stories (Issues): Scenario & Use case specification Service Design (detailed service design, unit test design) Service Implementation (implementation and testing) b. Project Timelines, Members, Task Responsibility c. Burndown Chart

3) First Increment Report Write a documentation describing the design, implementation, testing, and deployment (including the precise descriptions and screenshots).

 Labels  Hide Pull Requests  Burn Pipelines 

Start: Sep 1, 2016 [Edit](#) | Due: Sep 22, 2016 [Edit](#) 



↑ Increment 1		
Repository	Issues	Story Points
RooKart	① #13 Story 1.13 : Create increment 1 project report	(5)
RooKart	⑤ #6 Story 1.6 : RooKart App - Design Sequence & Class diagram	(8)
RooKart	⑤ #4 Story 1.4 : RooKart App - Design Wireframes & Mockups	(8)
RooKart	⑤ #1 Story 1.1 : Plan the increments to create RooKart Application	(8)
RooKart	⑤ #11 Story 1.11 : Validate the Rookart App for basic functionalities - Login, Register & Home screens	(5)
RooKart	⑤ #10 Story 1.10 : Deploy the RooKart Android app to a mobile device	(5)
RooKart	⑤ #9 Story 1.9 : As an user, I should be redirected to Home screen once the login is successful	(5)
RooKart	⑤ #8 Story 1.8 : As an user, I need to have options to register as a RooKart member	(5)
RooKart	⑤ #7 Story 1.7 : As an user, I will be able to login to the RooKart application	(5)
RooKart	⑤ #3 Story 1.3 : RooKart App - Document the revised project plan	(5)
RooKart	⑤ #2 Story 1.2 : RooKart App - Finalize the project plan	(5)
RooKart	③ #12 Story 1.12 : Create a wiki page for increment 1	(3)
RooKart	③ #5 Story 1.5 : RooKart App - Create Architecture diagram	(3)

Please refer to the below link to find the same on Github.

<https://github.com/ASE-Team16/RooKart/tree/master/Increment%201/Documentation>

4. Increment - II:

Increment 2 includes:

- Design and Implementation of the application with the Login Page, Registration page, Home Page, Products Page, Services Page, Seller's Forum Page, Buyer Page.
- UML Class Diagram, State Diagrams, Sequence Diagram, Wire Frames related to some of the above described functionalities.

4.1 Functionalities:

4.1.1 Login Page:

Login Page is the landing page upon opening RooKart application, Login page lets the user to login upon successful validation of user credentials. User needs to input registered email id and password. If the user does not have an account on RooKart, he should register.

4.1.2 Register Page:

Register page collects the personal information of the user such as, User Name, Email ID, Password and Mobile Number and creates an account for the user.

4.1.3 Home Page:

Once the user account is verified, Post Login user is redirected to this Home page, which offers the in app services as Products and Services. Upon selecting one the user is redirected to the Product/ Service Page.

4.1.4 Products Page:

Products page Show the List view and Google map View of all the products posted for sale. Products are displayed as List in First Display manner. Products can be viewed on the Google Map View, which shows the nearest available product to the user, based on his location using GPS Tracker.

4.1.5 Services Page:

Services Page shows List View and Google map View of all available services posted. Services can be viewed on the Google Map View, which shows the nearest available Service to the user, based on his location using GPS Tracker.

4.1.6 Sell Page:

User who wants to Sell their Products and Services to the other people in the community can do by posting the details of the Product along with Images and complete description with their Location details, etc.

4.1.7 Post Add:

Post Add enables the user to post the details inscribed by the user on the sell page to the list of all available Products/Services Pages on the buy Section.

4.2 Proposed System:

Functional Requirement Specification:

- User Should have a sign in.
- If User is new to RooKart User Should Register.
- User should be able to
Provide info.
- User details are need to be
validated.
- Upon Successful login User
should see the Home page –
Product and Services page.
- Upon Choosing the Products, user will be navigated to Product view
Page, user can select a product to read its complete description, user
can contact the seller, user can buy the product.
- Upon Choosing the Service, user will be navigated to Product view
Page, user can select a Service to read its complete description, user
can contact the seller, user can buy the Service.
- User can buy either of the services or Products, where mode of
Transaction is still to be implemented.
- User can post the Products or Services which they would offer,
along the complete description, Images, Location Details, etc.

4.3 Technologies and Tools:

- ANDROID STUDIO
- Front end: JavaScript
- Programming Language: Java
- Creately
- V: Canva
- VI: Adobe Photoshop.

4.4 Development:

Login: Users login using their registered UMKC email address and password.

Registration: Collects the personal information of the user and creates an account.

Information Collected: User Name, Email id, Password, Phone Number.

Home page: Consists two buttons, Products, Services.

Products Page: List of Products, Buy option, Contact Seller.

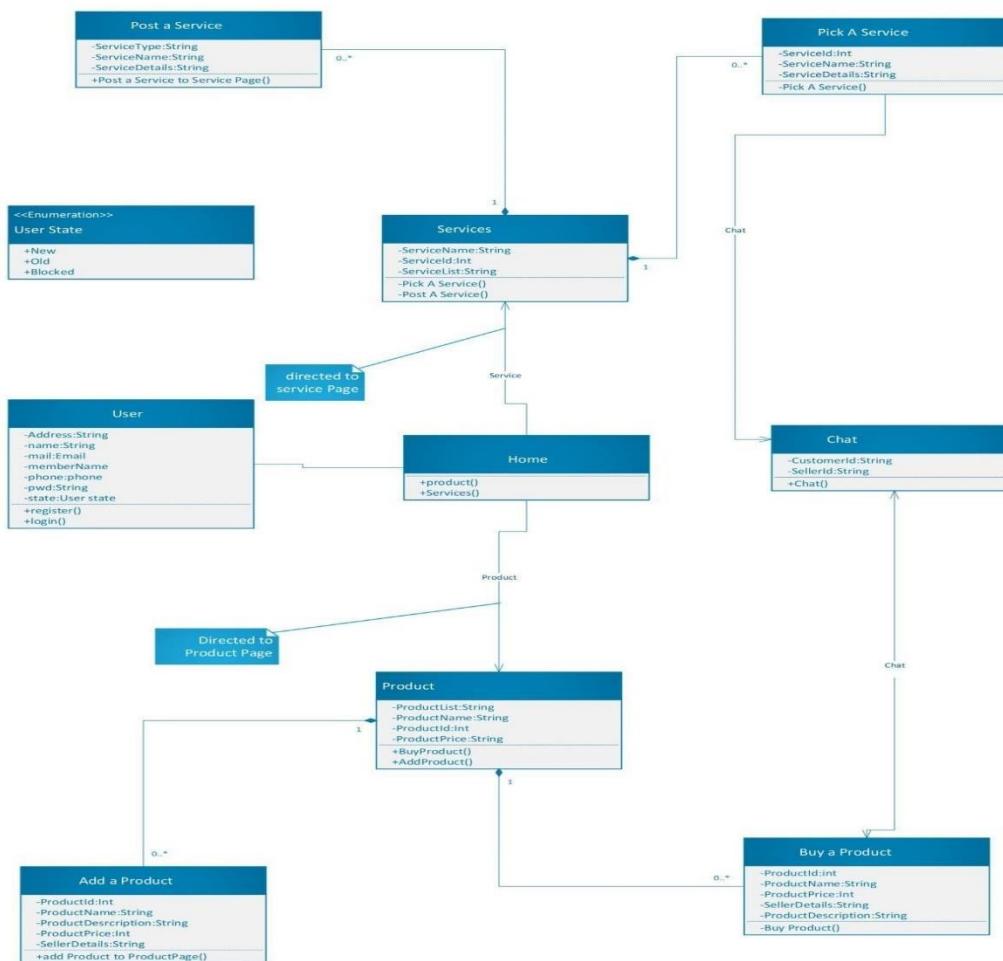
Service Page: List of Services or ADDs Posted, Buy option, Contact Seller option.

Sell Page: User can post the ads related to the Products and Services they wish to offer along with the complete description, Location Details, Images etc.

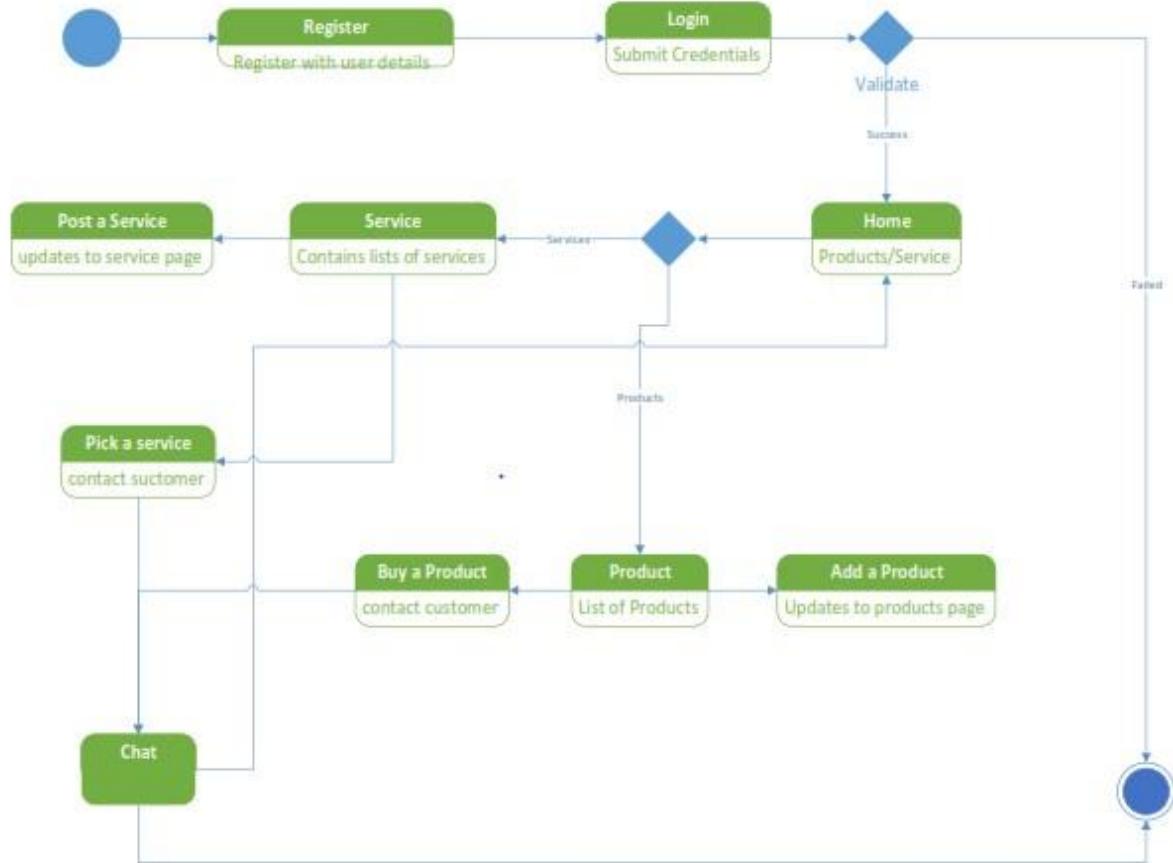
4.5 Class Diagram:

- The class graph underneath portrays the stream of the framework and process.

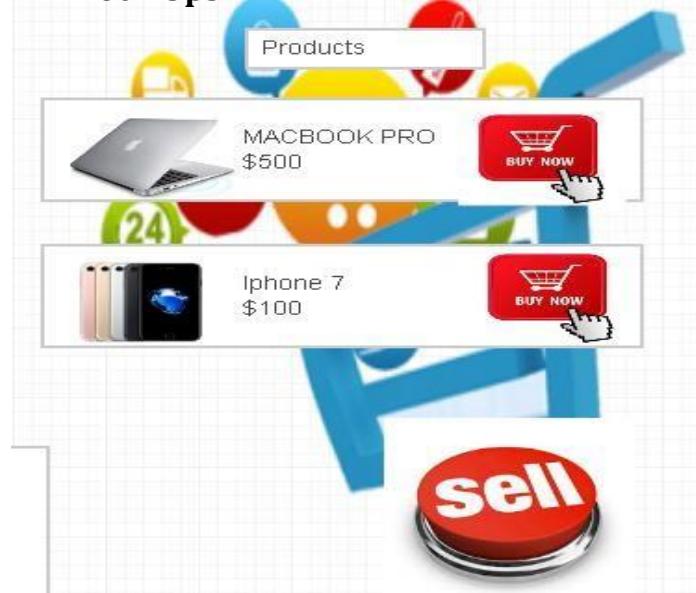
- Client Class had factors, for example, User Name, Email, Password, Phone number. These points of interest are utilized for enlistment. Post enlistment client can login utilizing Email and Password. At that point the framework approves the qualifications utilizing Authentication work and diverts the client to Home Page.
- On the Home Page, two functionalities are Provided which are Products and Administrations. Client can choose one among them at once. On snap usefulness is empowered for both and they divert the client to the separate pages.
- Item Page: It comprises of two functionalities, buy a Product, Sell a Product. Benefit Page: Post a Service, pick a Service functionalities are given.



4.6 State Diagram:



4.7 Mock Ups:



Services

Post

Swimming in 2 hrs
\$50/hr **Use it.**

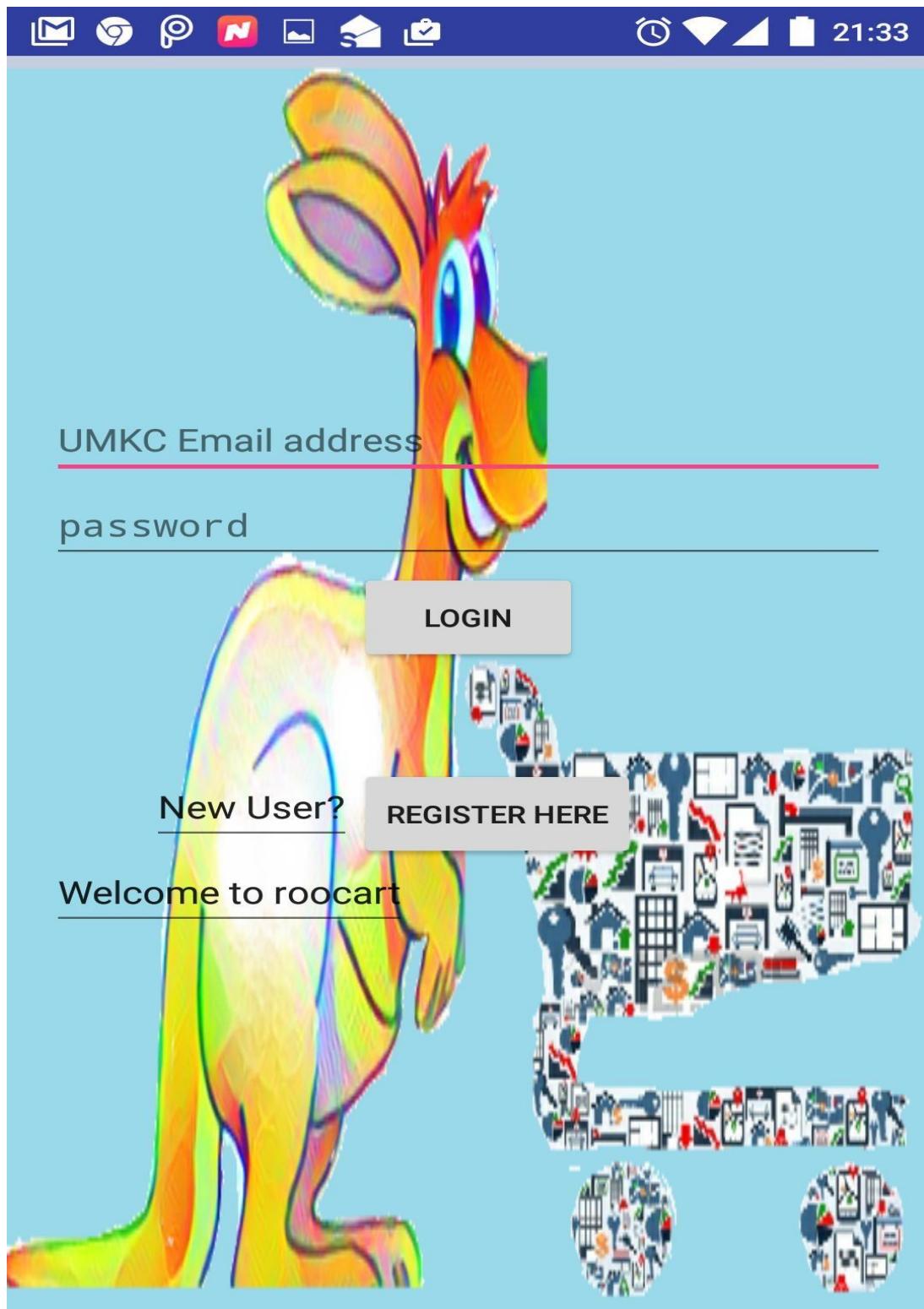
Salsa classes
\$10/day **Use it.**

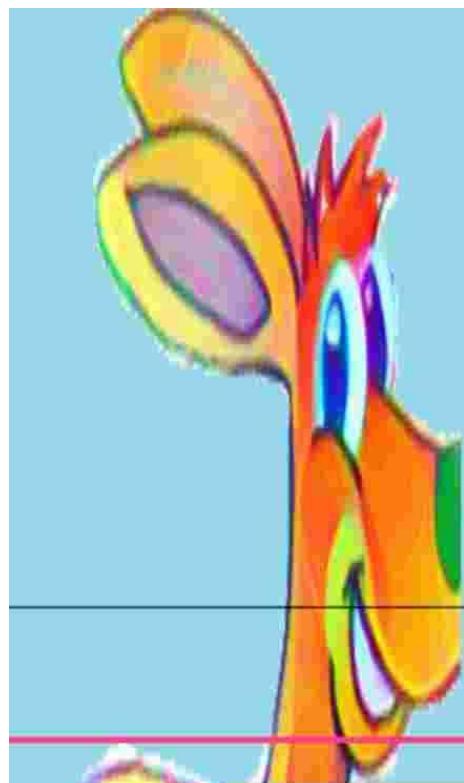
Sell Your Item !!!!



4.8 Deployment:

After code is build, gradle scripts are Run, and deployed into OnePlus 3 android mobile Phone.





thjj

LOGIN



l

••♦?♦&Ar:1♦♦?♦

1 2 3 4 5 6 7 8 9 0

q w e r t y u o p |

a s d f g h j k

z x c v b n m a

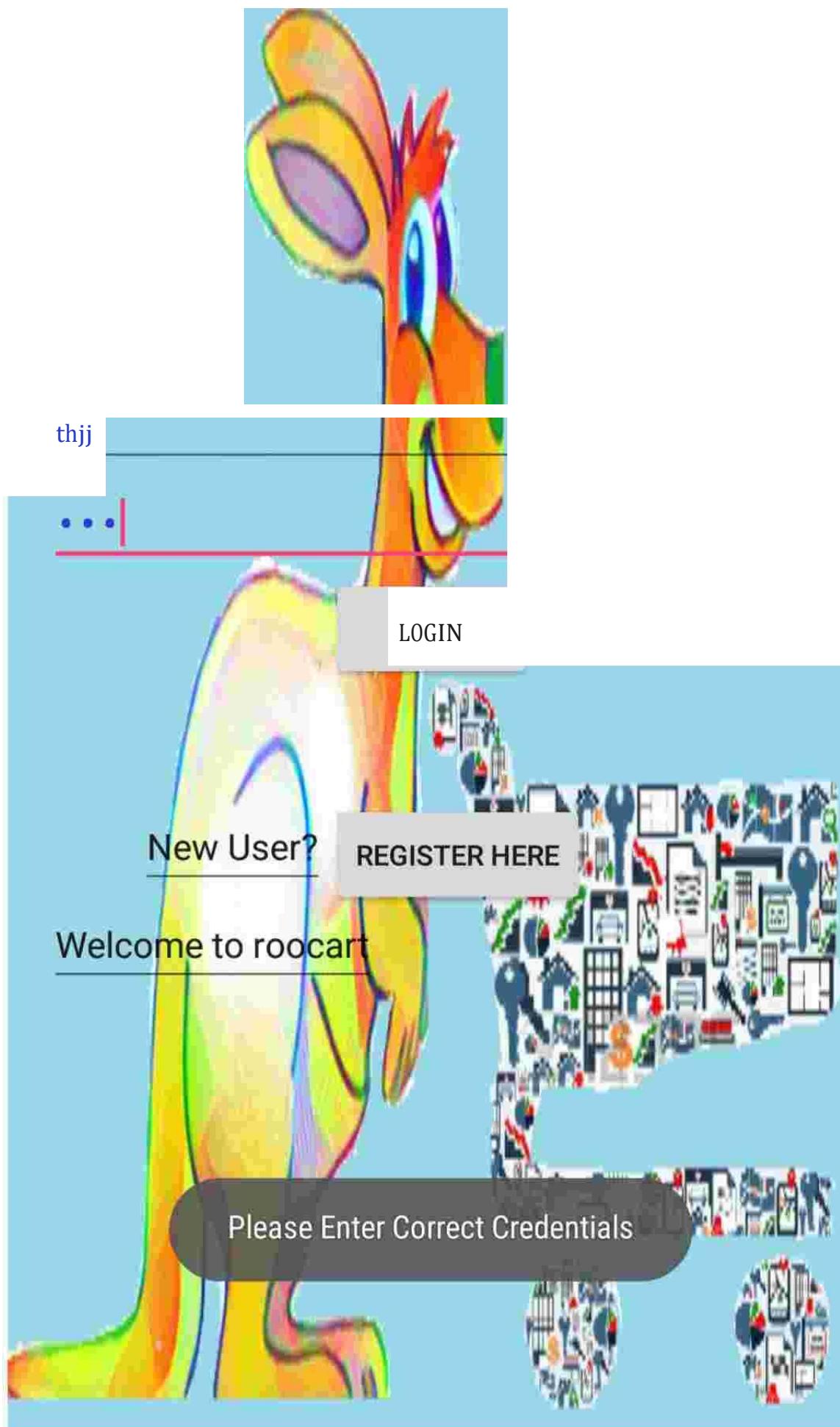
•

?1© ,

•

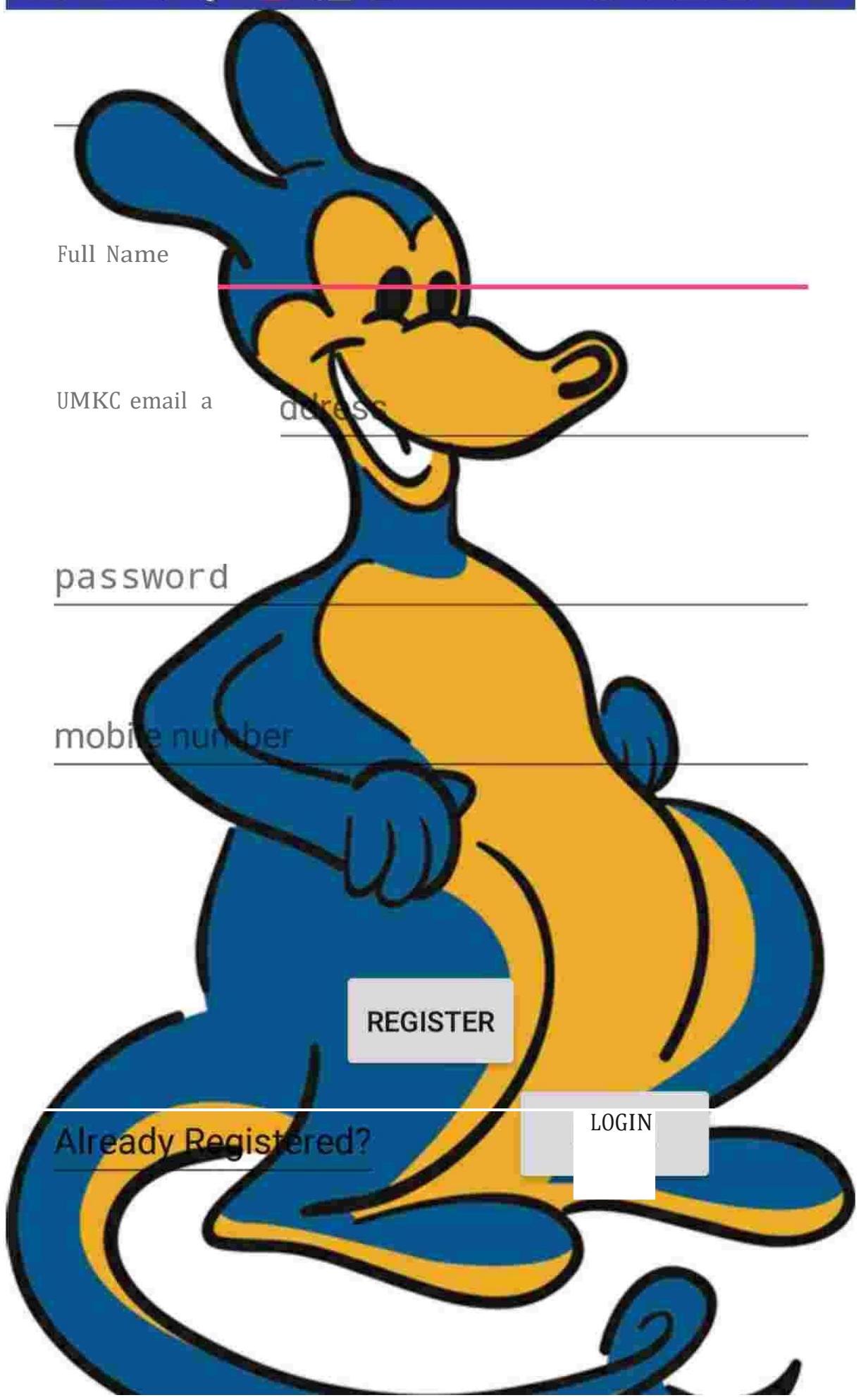


21:36





21:33

A large, stylized cartoon character with a blue and yellow body, black outline, and a wide, smiling mouth. It is positioned behind the registration form fields.

Full Name

UMKC email a

ddress

password

mobile number

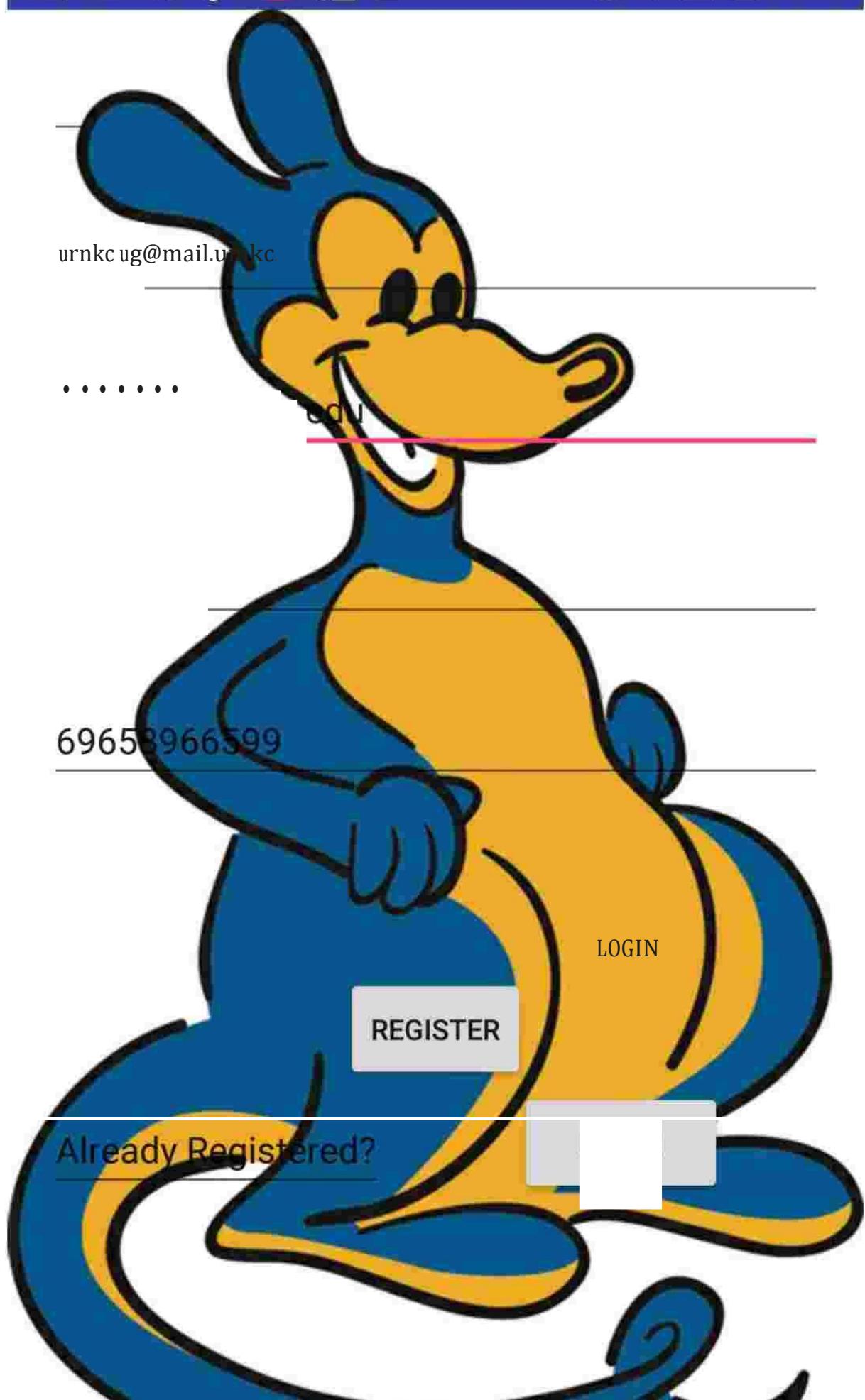
REGISTER

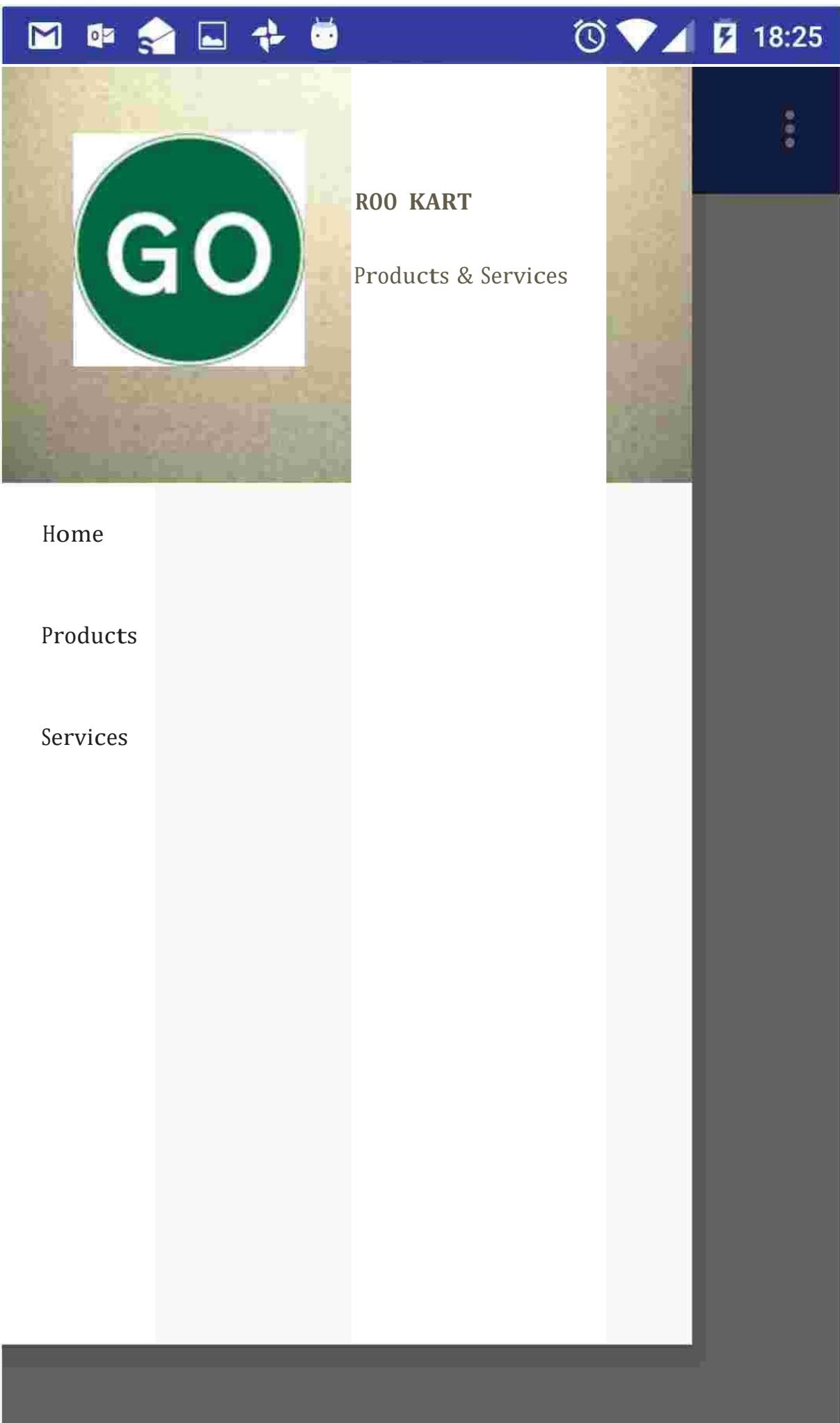
Already Registered?

LOGIN



21:35







18:25

RooKart



LISTVIEW

GOOGLE VIEW



Pineapple

Rs. 200

BUY



18:25

RooKart



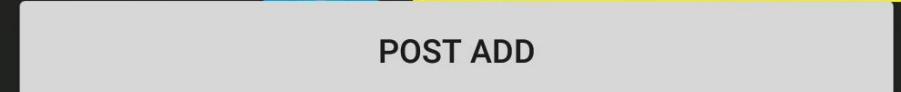
LISTVIEW

GOOGLE VIEW



17:41

MapApplication

**TAKE IMAGE****CHOOSE FROM GALLERY****PRODUCT NAME:****PRODUCT
DESCRIPTION:****LOCATION:****Auto-fill after 10 secs****PHONE
NUMBER:****PRICE \$:****POST ADD**



17:41

Images



Screenshot_20161014-174148.png



17:41

268 KB



Screenshot_20161014-174139.png



17:41

569 KB



Screenshot_20161014-174124.png



17:41

460 KB



Screenshot_20161014-174108.png



17:41

562 KB



Screenshot_20161014-174044.png



17:40

795 KB



Screenshot_20161014-173802.png



17:38

1.98 MB



IMG_20161014_173756.jpg



17:37

2.03 MB

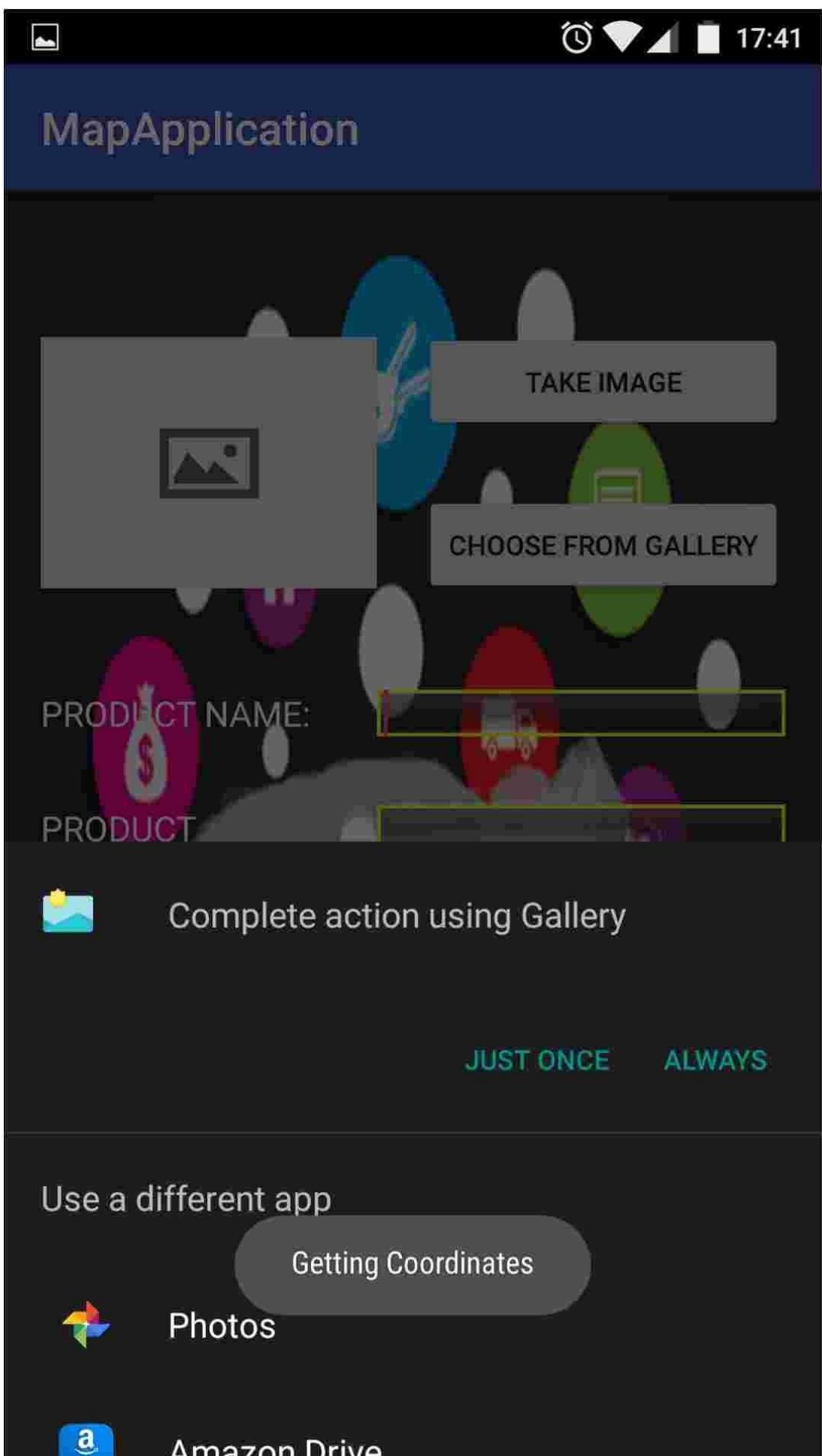


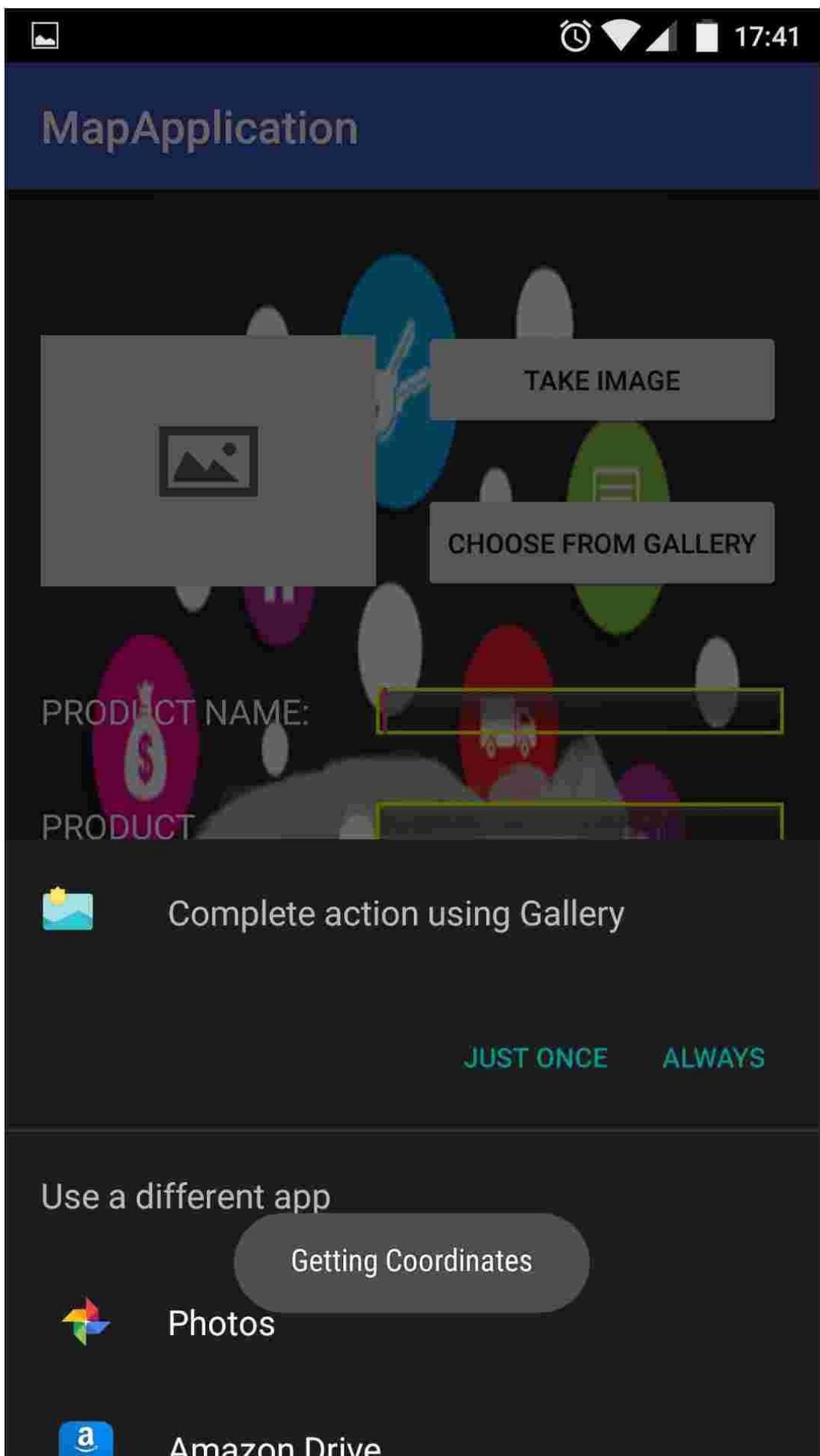
Screenshot_20161014-173744.png

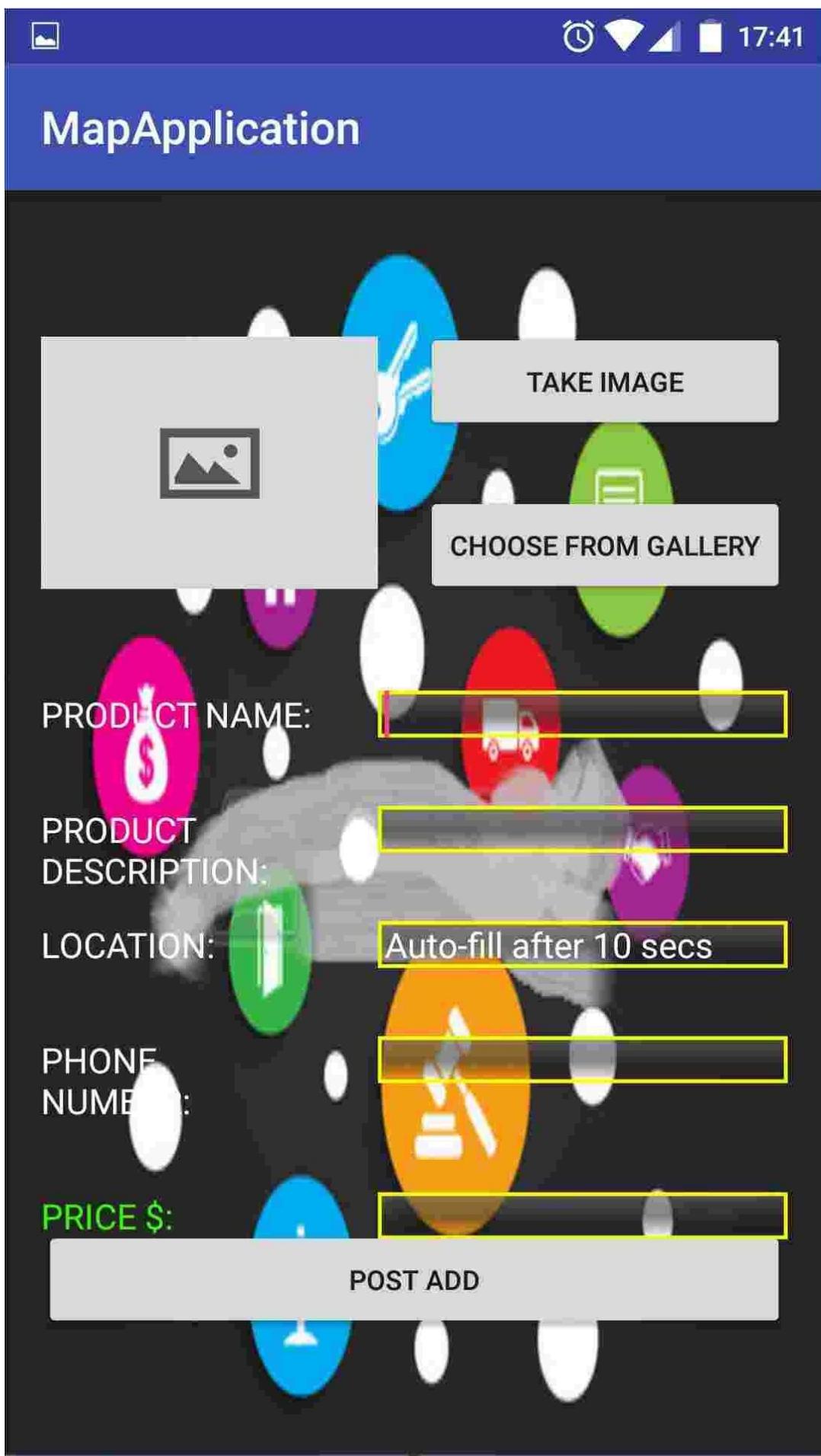


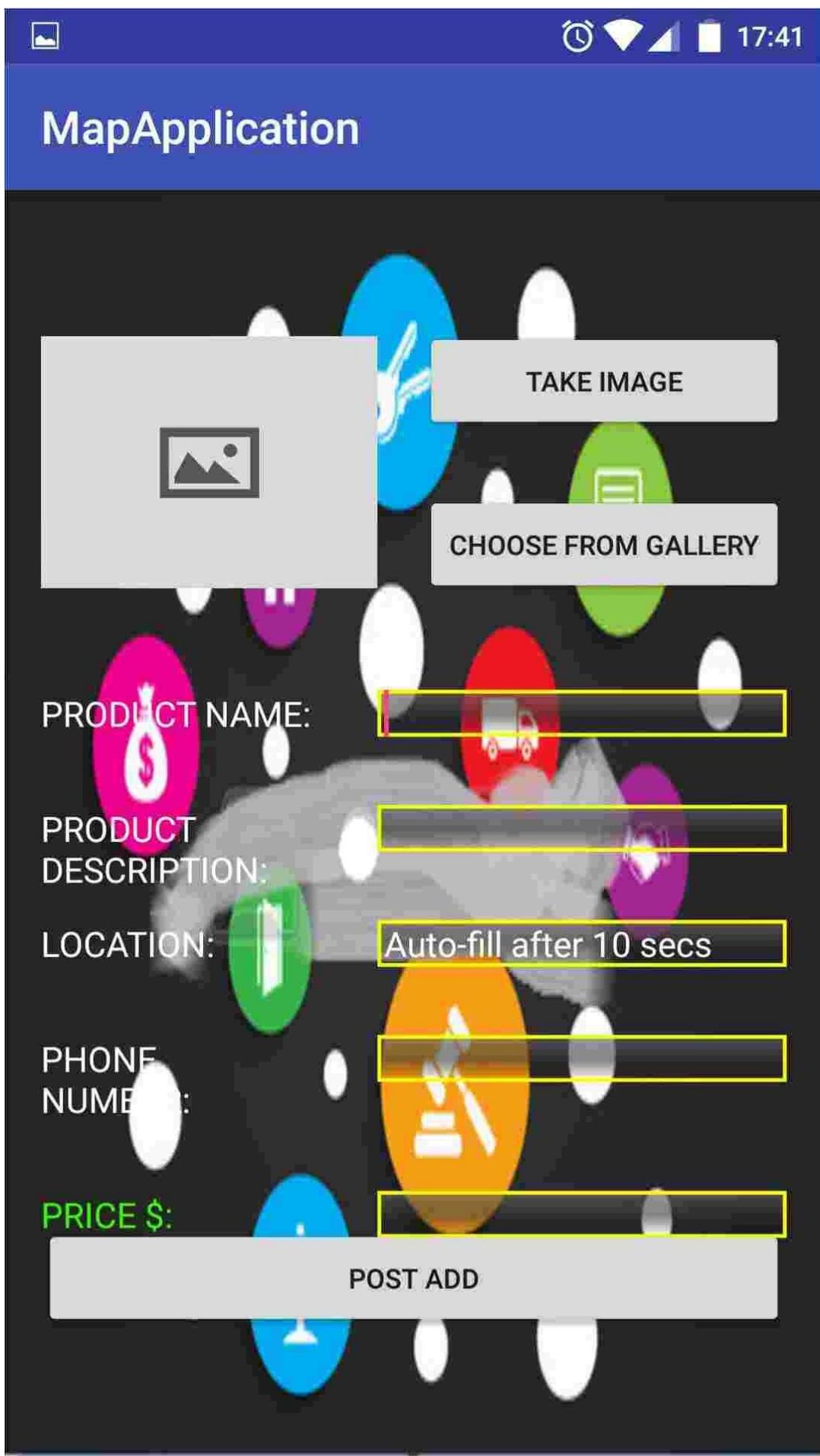
17:37

255 KB











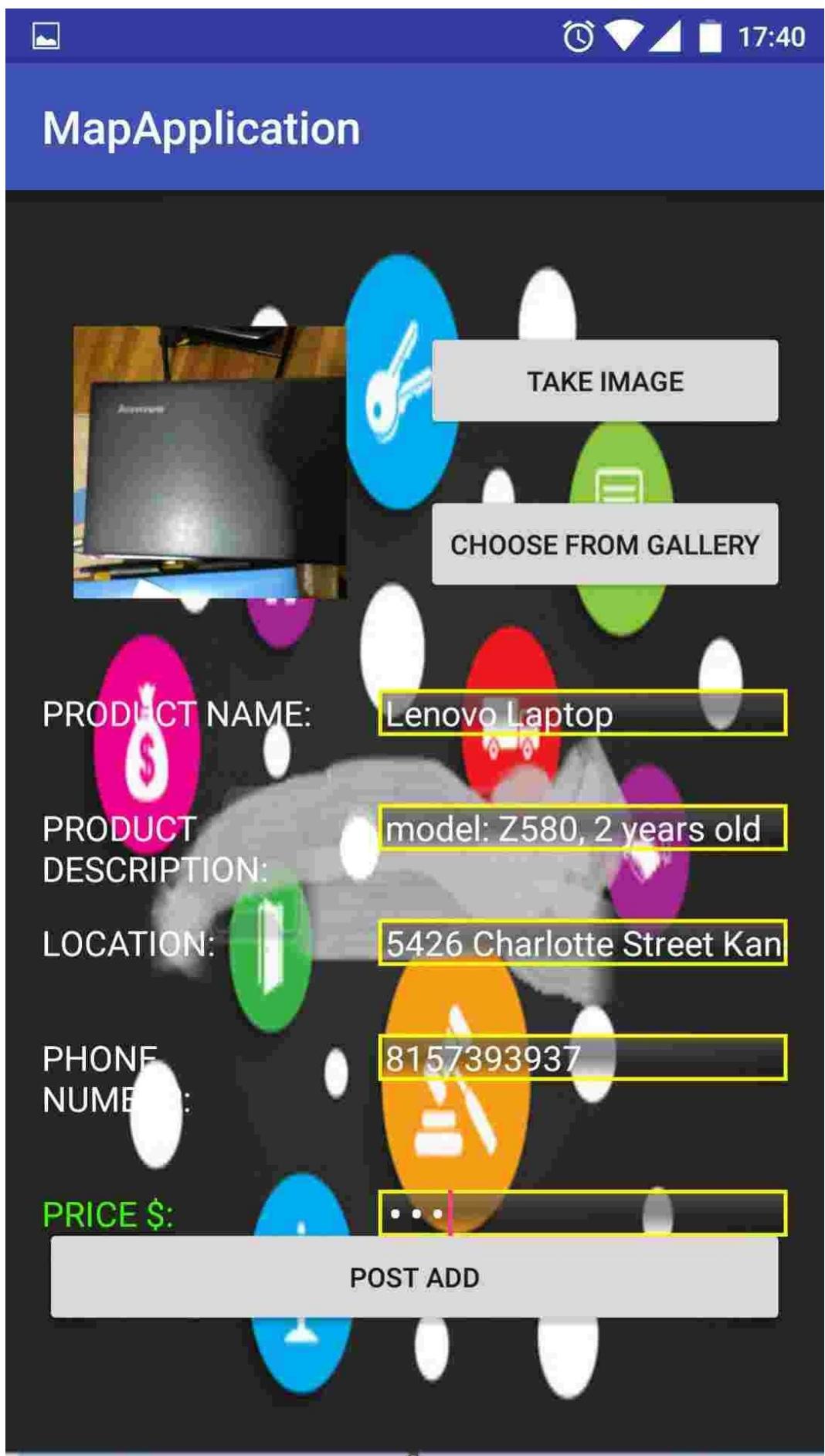
Kansas City
O

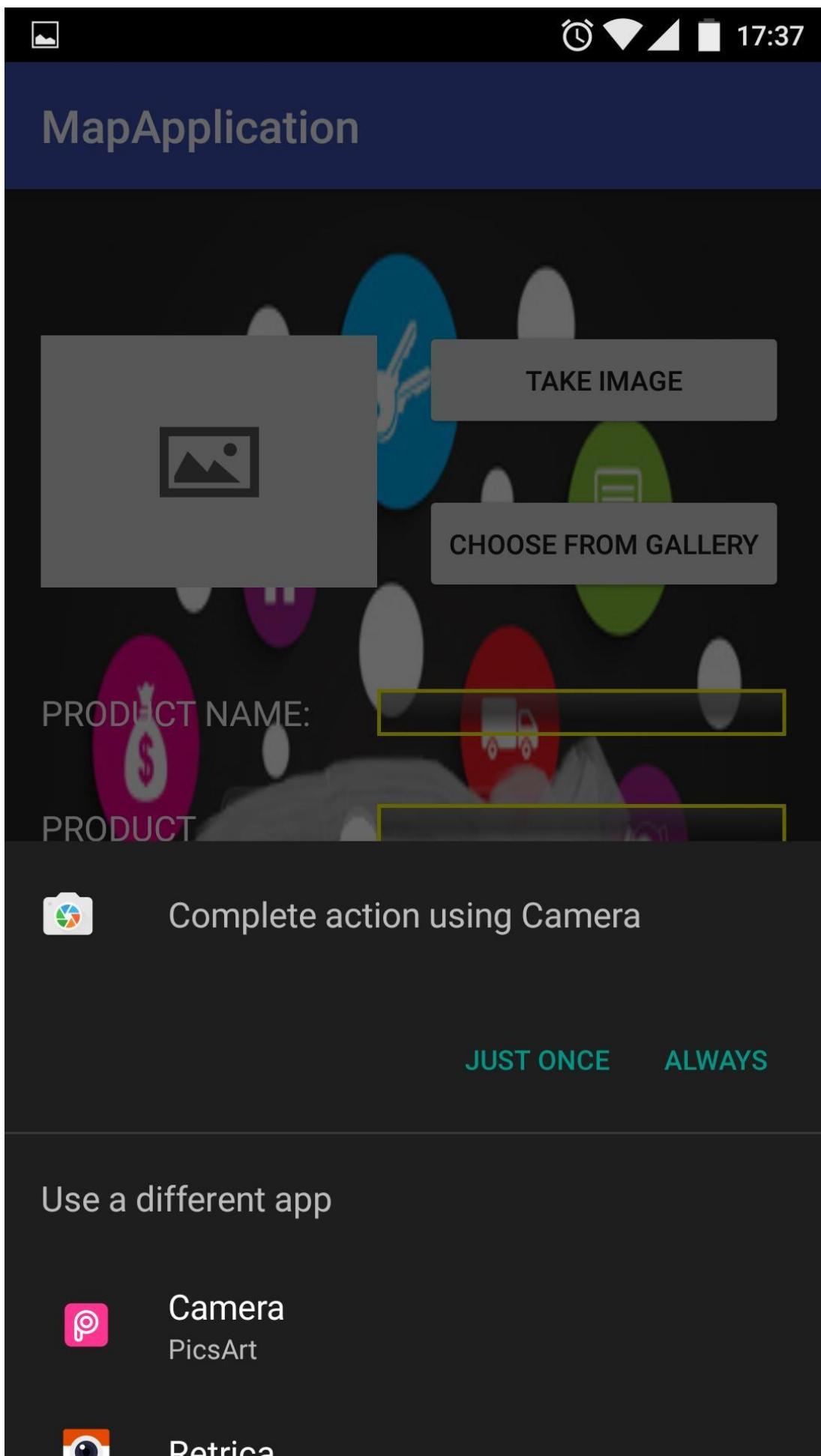


O
erland Park

Go gle









17:44

MapApplication



TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

Computer Mouse

PRODUCT
DESCRIPTION:

Zebronics, gaming mouse

LOCATION:

5426 Charlotte Street Kan

PHONE
NUMBER:

62826493829

PRICE \$:

...

POST ADD



⌚ ⌂ ⌂ ⌂ 18:25

RooKart



LISTVIEW

GOOGLE VIEW



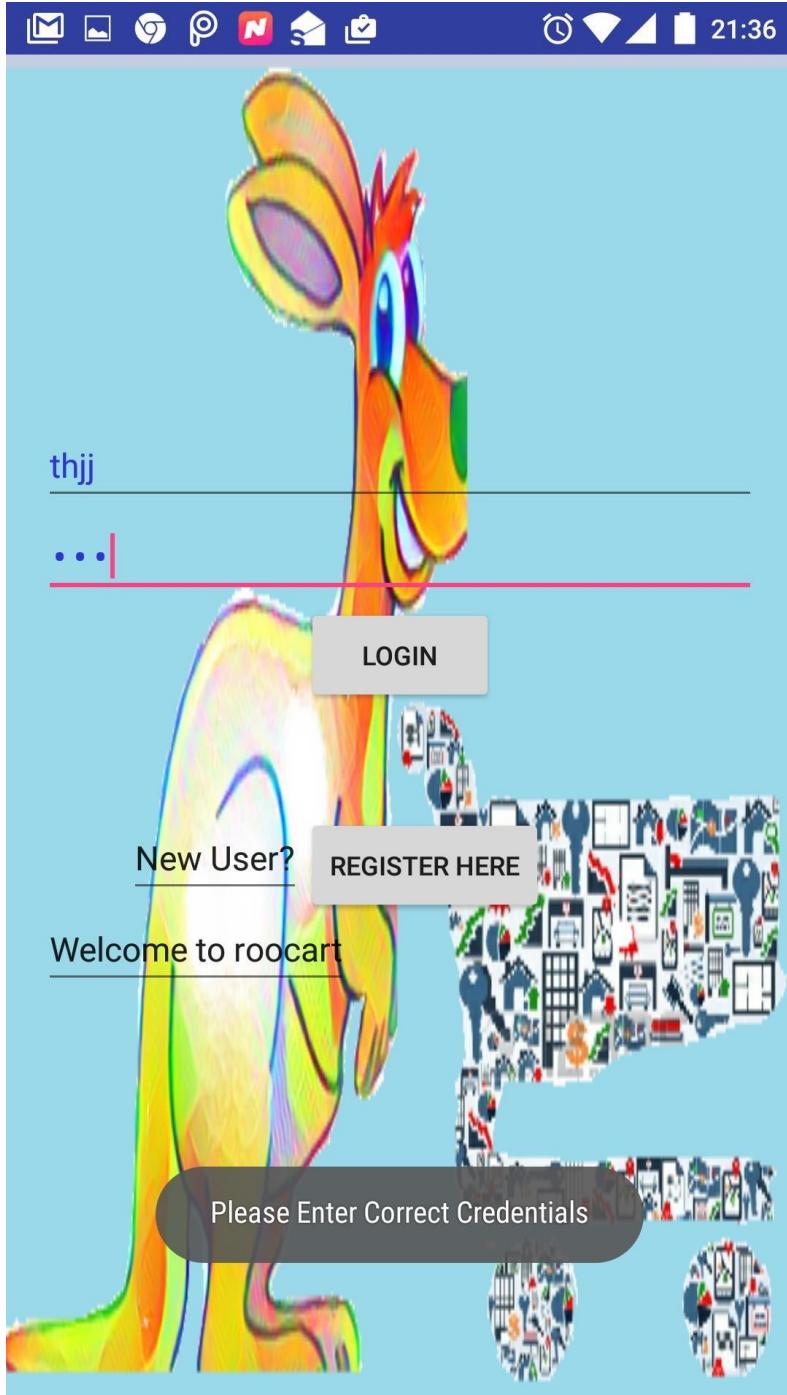
Pineapple

Rs.200

BUY

11. Unit Testing:

Please find the Screen shots of the validations



occurred.



UMKC Email addres

password



LOGIN

the

l



thanks



1 2 3 4 5 6 7 8 9 0

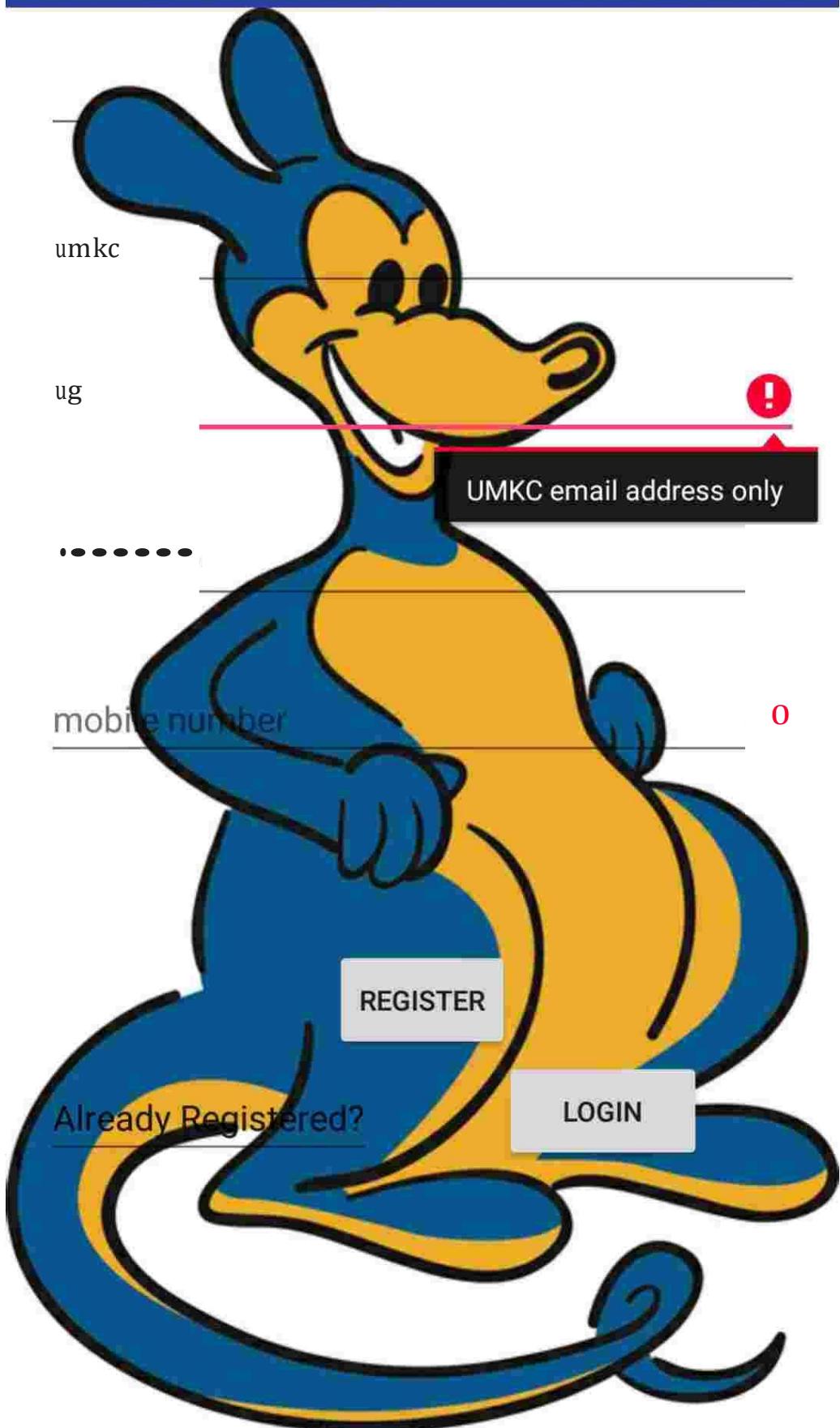
q w e r t y u o p

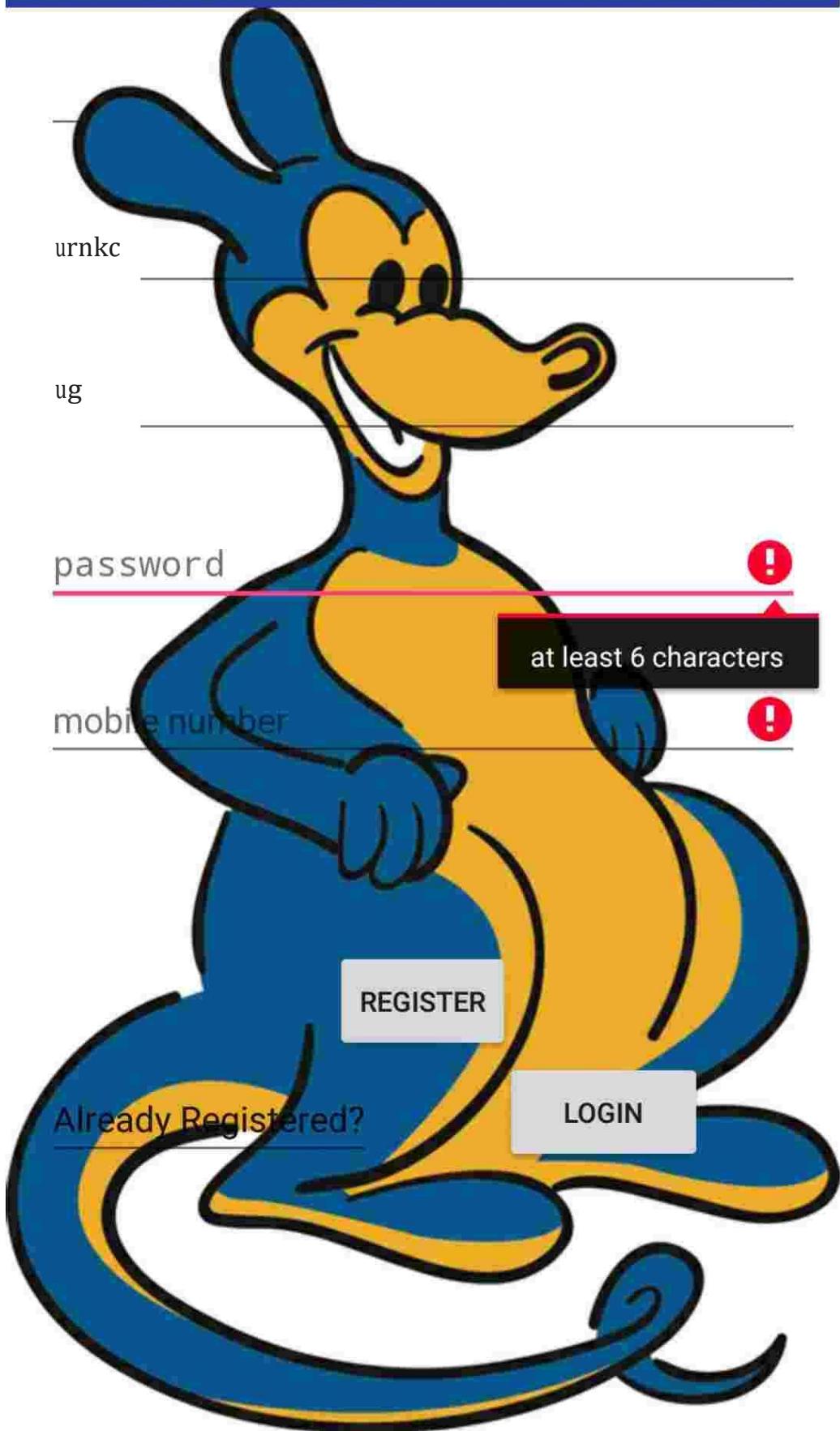
a s d f g h j k

Please Enter Correct Credentials

f3

?1①







21:34

umkc

UMKC email address



UMKC email address only

password



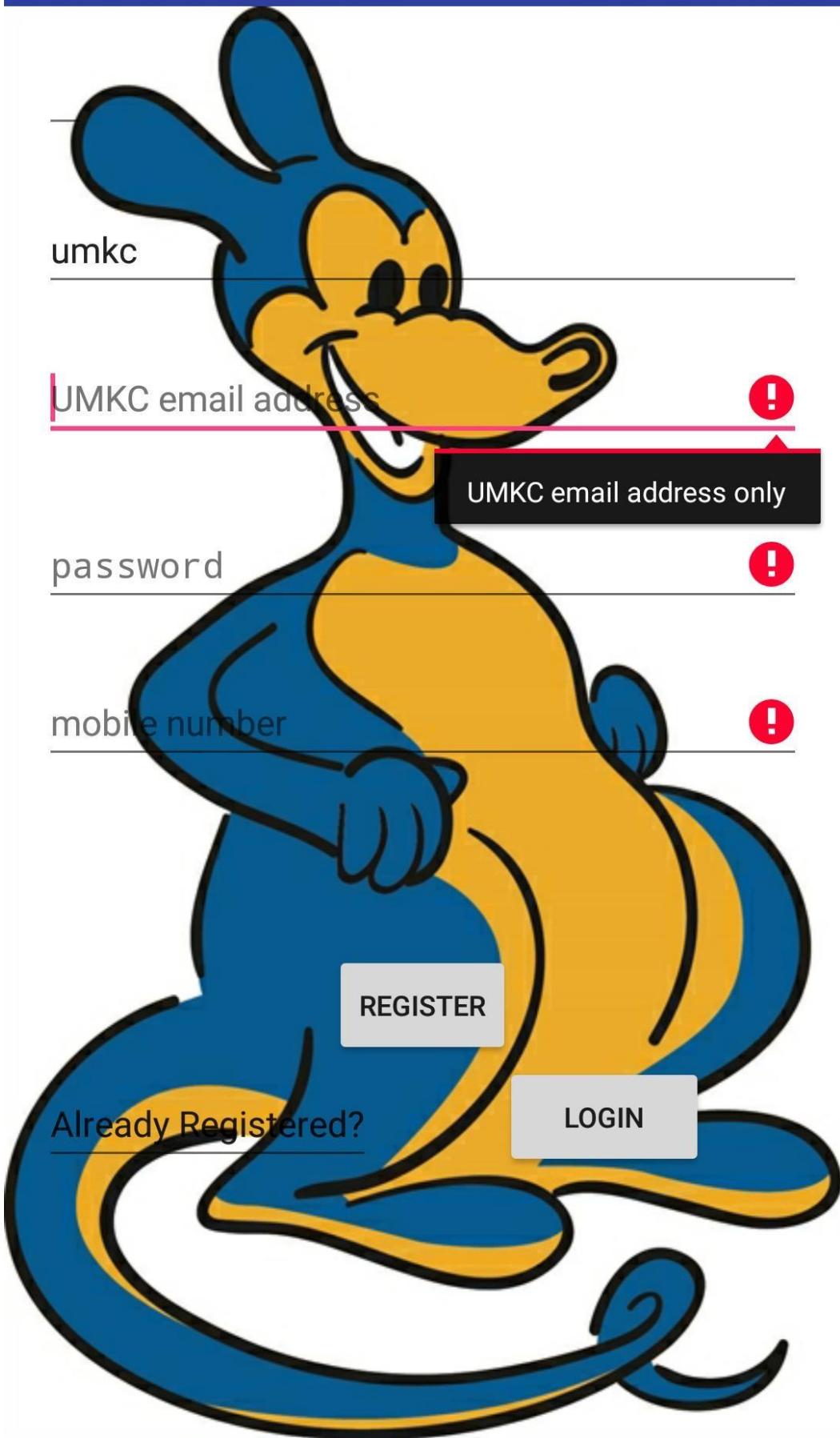
mobile number



REGISTER

Already Registered?

LOGIN



4.9 Project Management:

RooKart Project Implementation:

- Validate & authenticate the users during Login & registration.
 - Implement the functionality for the user to add products that they want to sell.
 - Implement the browse functionality for buying the products.
 - Integrated the Product Buy/Sell functionalities.
 - Implemented the Services functionality.

User Stories:

GitHub, Inc. [US] | https://github.com/ASE-Team16/RooKart/issues?q=is%3Aopen+is%3Aissue+ milestone%3A"Increment+2"

This repository Search Pull requests Issues Gist ToDo Watch 0 Star 0 Fork 0

ASE-Team16 / RooKart ▾

Code Issues 30 Pull requests 0 Boards Burndown Projects 1 Wiki

Filters is:open is:issue milestone:"Increment 2" Labels Milestones New issue

Clear current search query, filters, and sorts

	Author	Labels	Milestones	Assignee	Sort
① 25 Open ✓ 0 Closed					
Story 2.6 - Increment 2 - Create increment report. ⑤	#43 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		
Story 2.5 - Increment 2 - Create a Wiki page. ⑤	#42 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		
Story 2.3.1 - RooKart Products - Implement the navigations from Home screen to Products screen. ③	#41 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		1
Story 2.3.2 - RooKart Products - Implement the Products home screen layout. ⑧	#40 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		1
Story 2.3.3 - RooKart Products - Implement the Products View/Browse functionality - Product details View. ①	#39 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		
Story 2.3.4 - RooKart Products - Implement the Products View/Browse functionality - Product google maps View. ⑧	#38 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		
Story 2.3.5 - RooKart Products - Implement the Products Sell home screen to add the product to RooKart. ⑤	#37 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		
Story 2.3.6 - RooKart Products - Implement the navigations from Products Browse/Sell Views. ⑤	#36 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		
Story 2.3.7 - RooKart Products - Handle the navigations from Products Details/Google Maps Views. ⑤	#35 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		1
Story 2.3.8 - RooKart Products - Design the background layout for all the Product screens. ⑤	#34 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		
Story 2.3.10 - RooKart Products - Validate the Products Buy/Sell functionalities. ⑧	#32 opened 6 hours ago by Lavakumar90	Increment 2	In Progress		

<input type="checkbox"/>	① Story 2.4.1 - RooKart Services - Implement the navigations from Home screen to Services screen.	1	#31 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.2 - RooKart Services - Implement the Services home screen layout.	5	#30 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.3 - RooKart Services - Implement the Services View/Browse functionality - Services details View.	1	#29 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.4 - RooKart Services - Implement the Services View/Browse functionality - Services google maps View.	8	#28 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.5 - RooKart Services - Implement the Services Sell home screen to add a Service to RooKart.	1	#27 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.6 - RooKart Services - Implement the navigations from Services Browse/Sell Views.	5	#26 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.7 - RooKart Services - Handle the navigations from Services Details/Google Maps Views.	1	#25 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.8 - RooKart Services - Design the background layout for all the Services screens.	5	#24 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.9 - RooKart Services - Integrate the Services Buy/Sell functionalities.	8	#23 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Story 2.4.10 - RooKart Services - Validate the Services Buy/Sell functionalities.	5	#22 opened 6 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Epic 2.4 - Rookart - Services functionality	40	#21 opened 7 hours ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Epic 2.3: RooKart - Buy/Sell functionality	10	#16 opened 21 days ago by Lavakumar90 ↑ Increment 2 In Progress	
<input type="checkbox"/>	① Epic 2.2: Setup local databases for the application.	10	#15 opened 21 days ago by Lavakumar90 ↑ Increment 2 Backlog	
<input type="checkbox"/>	① Epic 2.1: Validate & authenticate the users during registration.	15	#14 opened 21 days ago by Lavakumar90 ↑ Increment 2 Backlog	1

Burn down Chart:



⌚ Increment 2		
Repository	Issues	Story Points
RooKart	① #21 Epic 2.4 - Rookart - Services functionality	40
RooKart	① #16 Epic 2.3: RooKart - Buy/Sell functionality	40
RooKart	① #14 Epic 2.1: Validate & authenticate the users during registration.	15
RooKart	① #15 Epic 2.2: Setup local databases for the application.	10
RooKart	② #40 Story 2.3.2 - RooKart Products - Implement the Products home screen layout.	8
RooKart	② #39 Story 2.3.3 - RooKart Products - Implement the Products View/Browse functionality - Product details View.	8
RooKart	② #38 Story 2.3.4 - RooKart Products - Implement the Products View/Browse functionality - Product google maps View.	8
RooKart	② #32 Story 2.3.10 - RooKart Products - Validate the Products Buy/Sell functionalities.	8
RooKart	② #29 Story 2.4.3 - RooKart Services - Implement the Services View/Browse functionality - Services details View.	8
RooKart	② #28 Story 2.4.4 - RooKart Services - Implement the Services View/Browse functionality - Services google maps View.	8
RooKart	② #23 Story 2.4.9 - RooKart Services - Integrate the Services Buy/Sell functionalities.	8
RooKart	② #22 Story 2.4.10 - RooKart Services - Validate the Services Buy/Sell functionalities.	8
RooKart	③ #43 Story 2.6 - Increment 2 - Create increment report.	5
RooKart	④ #42 Story 2.5 - Increment 2 - Create a Wiki page.	5
RooKart	⑤ #37 Story 2.3.5 - RooKart Products - Implement the Products Sell home screen to add the product to RooKart.	5

screen.

5. Increment -III:

Increment-3 includes:

Design and Implementation of the application with the Login Page, Registration Page, Home Page, Products Page, Services Page, Seller's Forum Page, Buyer Page. UML Class Diagram, State Diagrams, Sequence Diagram, Wire Frames related to some of the above described functionalities.

5.1 Functionalities:

5.1.1 Login Page:

Login Page is the landing page upon opening RooKart application, Login page lets the user to login upon successful validation of user credentials. User needs to input registered email id and password. If the user does not have an account on RooKart, he should register.

5.1.2 Register Page:

Register page collects the personal information of the user such as, User Name, Email ID, Password and Mobile Number and creates an account for the user.

5.1.3 Home Page:

Once the user account is verified, Post Login user is redirected to this Home Page, which offers the in app services as Products and Services. Upon on selecting one the user is redirected to the Product/ Service Page.

5.1.4 Products Page:

Products page Show the List view and Google map View of all the products posted for sale. Products are displayed as List in First Display manner. Products can be viewed on the Google Map View, which shows the nearest available product to the user, based on his location using GPS Tracker.

5.1.5 Services Page:

Services Page shows List View and Google map View of all available services posted. Services can be viewed on the Google Map View, which shows the nearest available Service to the user, based on his location using GPS Tracker.

5.1.6 Sell Page:

User who wants to Sell their Products and Services to the other people in the community can do by posting the details of the Product along with Images and complete description with their Location details, etc.

5.1.7 Post Add:

Post Add enables the user to post the details inscribed by the user on the sell page to the list of all available Products/Services Pages on the buy Section.

5.2 Proposed System:

3.1 Functional Requirement

Specification: I. User Should have a sign in.

II. If User is new to RooKart User Should Register

III. User should be able to

Provide info. IV. User details are

need to be validated.

V. Upon Successful login User should see the Home Page – Product and Services

Page.

VI. Upon Choosing the Products, user will be navigated to Product view Page, user can select a product to read its complete description, user can contact the seller, user can buy the product.

VII: Upon Choosing the Service, user will be navigated to Product view Page, user can select a Service to read its complete description, user can contact the seller, user can buy the Service.

VIII: User can buy either of the services or Products, where mode of Transaction is still to be implemented.

IX: User can post the Products or Services which they would offer, along the complete description, Images, Location Details, etc.

5.3 Technologies and Tools:

- ANDROID STUDIO
- Front end: JavaScript
- Programming Language: Java
- Creately
- Canva
- Adobe photoshop.
- MongoDB
- AMAZON AWS

5.4 Development:

Login: Users login using their registered UMKC email address and password.

Registration: Collects the personal information of the user and creates an account.

Information Collected: User Name, Email id, Password, Phone Number.

Home page: Consists two buttons, Products, Services.

Products Page: List of Products, Buy option, Contact Seller.

Service Page: List of Services or ADDs Posted, Buy option, Contact Seller option.

Sell Page: User can post the ads related to the Products and Services they wish to offer along with the complete description, Location Details, Images etc.

5.5 Wire Frame:

Here is the Login Page Wire Frame.

Sign In

Email

Password

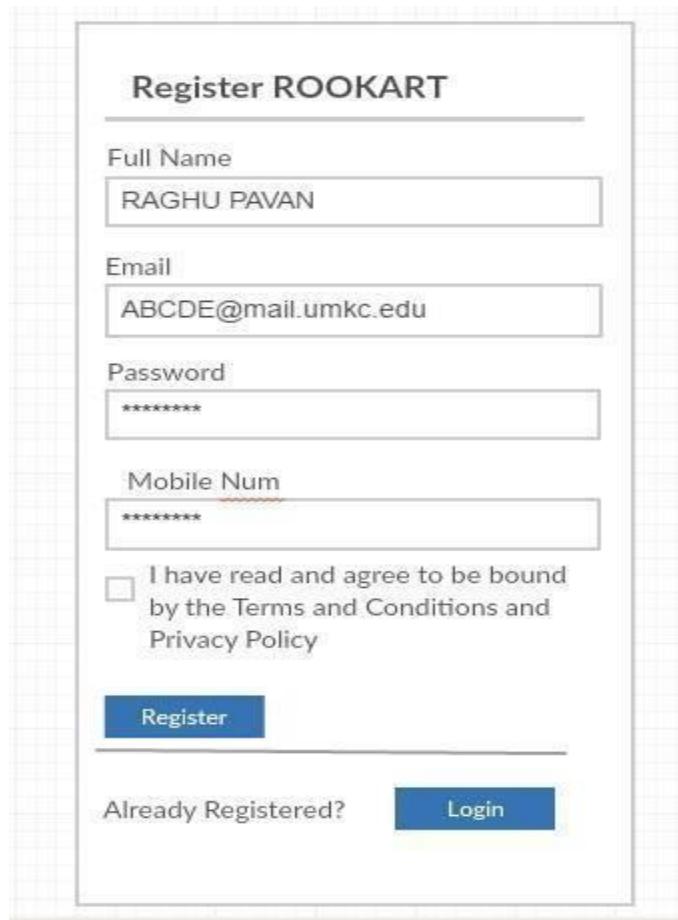
Remember Me

[Forgot your password?](#)

Don't have an account yet?

Registration Page:

If the user is a new User he can Register on clicking Register button, Register Page collects the user's personal information such as User Full Name, Email id, Password and Phone Number.



The image shows a registration form titled "Register ROOKART". The form fields include:

- Full Name: RAGHU PAVAN
- Email: ABCDE@mail.umkc.edu
- Password: *****
- Mobile Num: *****
- A checkbox labeled "I have read and agree to be bound by the Terms and Conditions and Privacy Policy".
- A blue "Register" button.
- Links for "Already Registered?" and "Login" at the bottom.

Register ROOKART

Full Name
RAGHU PAVAN

Email
ABCDE@mail.umkc.edu

Password

Mobile Num

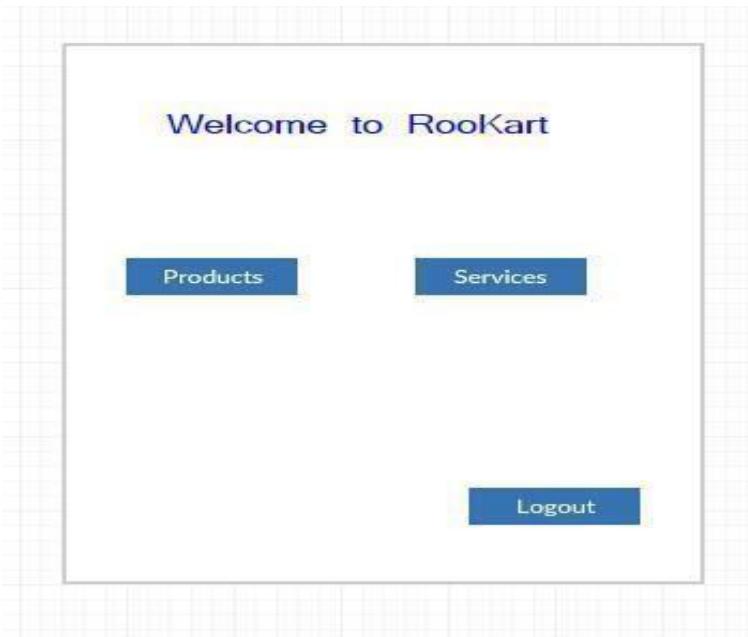
I have read and agree to be bound by the Terms and Conditions and Privacy Policy

Register

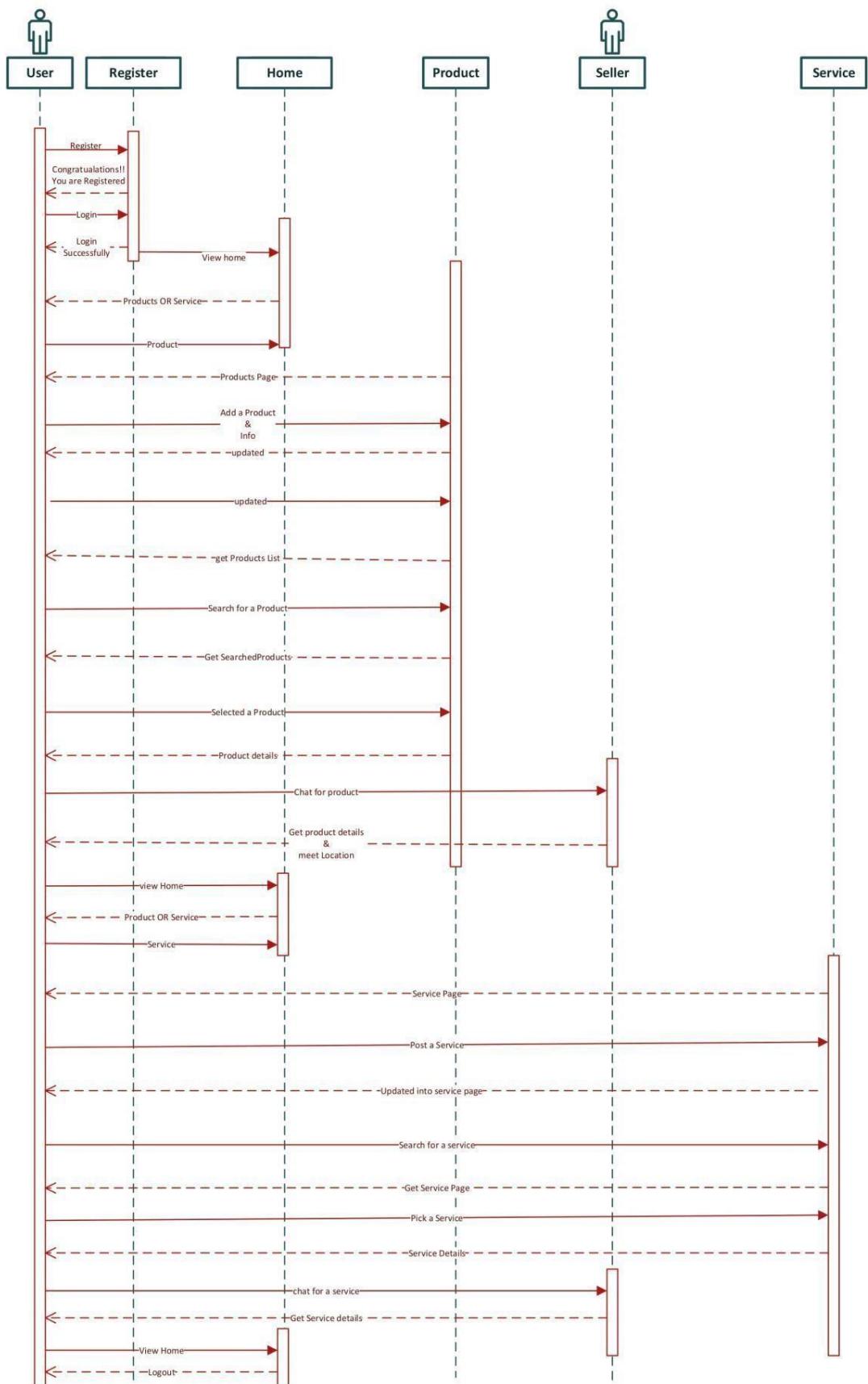
Already Registered? **Login**

Home Page:

Post the Login, the user is redirected to the Home Page. Home page consists of two buttons, Products and Services.



5.6 Sequence Diagram of the application:



8.0 Class Diagram:

The class graph underneath portrays the stream of the framework and process.

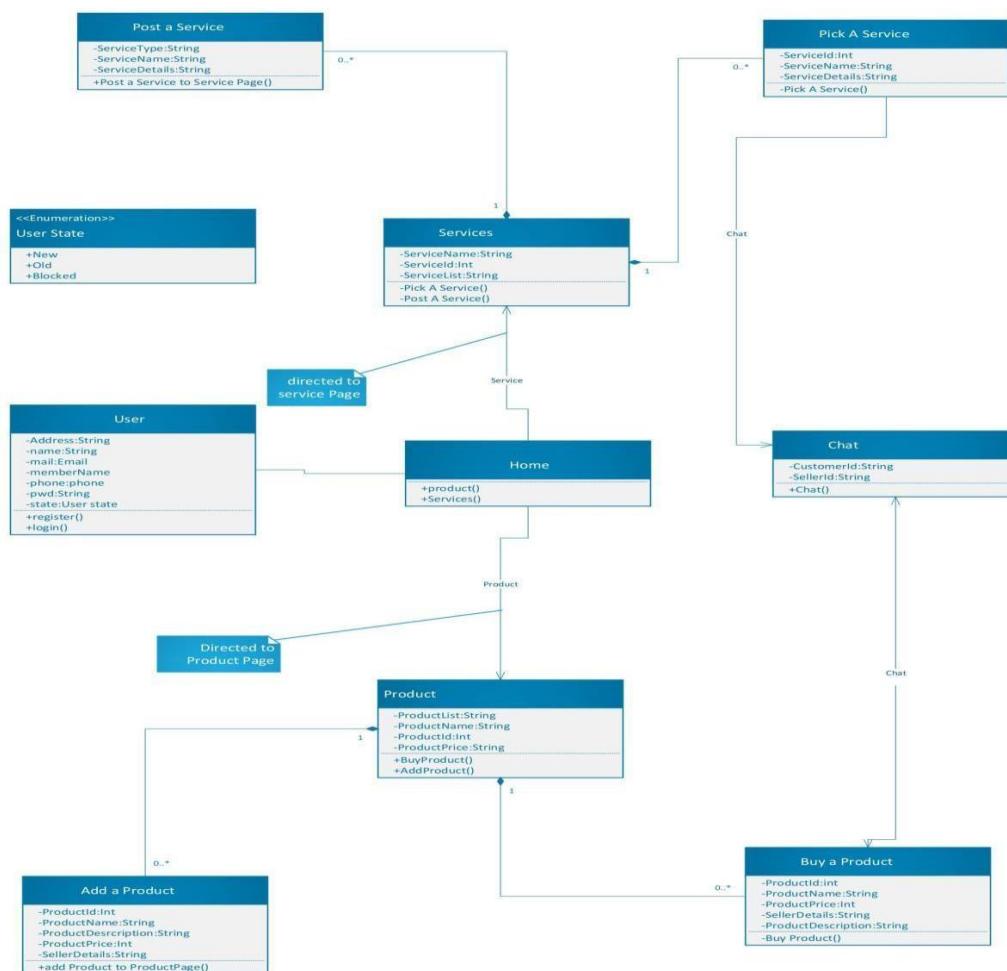
Client Class had factors, for example, User Name, Email, Password, Phone number. These points of interest are utilized for enlistment. Post enlistment client can login utilizing Email and Password. At that point the framework approves the qualifications utilizing Authecation work and diverts the client to Home Page.

On the Home Page, two functionalities are Provided which are Products and Administrations. Client can choose one among them at once. On snap usefulness is empowered for both and they divert the client to the separate pages.

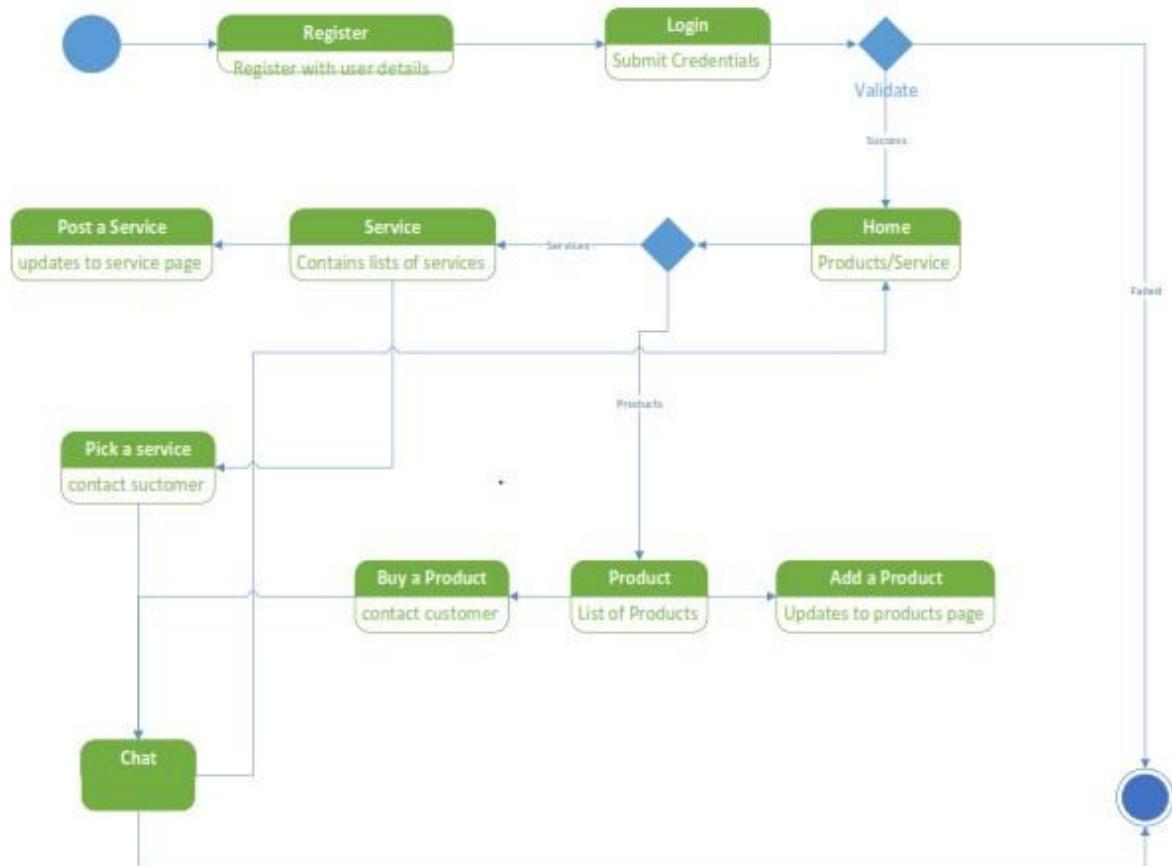
Item Page: It comprises of two functionalities, buy a Product, Sell a Product.

Benefit Page: Post a

Service, pick a Service functionalities are given.



5.7 State Diagram:



10.0 Mock Ups



Services

Post

Swimming in 2 hrs
\$50/hr **Use it.**

Salsa classes
\$10/day **Use it.**

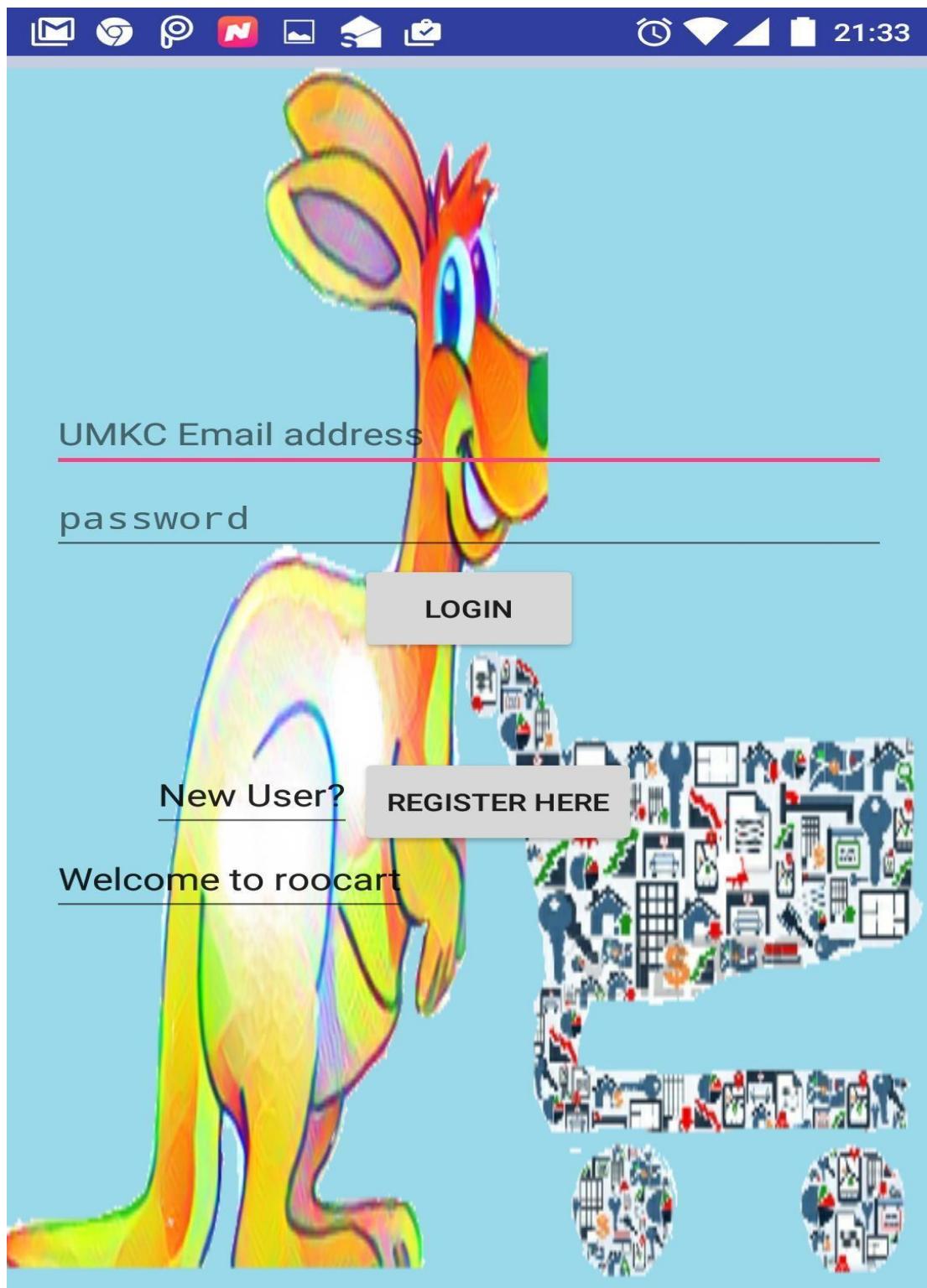
Icons include a globe, a person, a gear, a smartphone, and a thumbs-up.

Sell Your Item !!!!



5.10 Deployment:

After code is build, gradle scripts are Run, and deployed into OnePlus 3 android mobile Phone.





21:36

thjj

...|

LOGIN

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😊 ,

.





21:36

thjj

...

LOGIN

New User?

REGISTER HERE

Welcome to roocart

Please Enter Correct Credentials



21:33

Full Name

UMKC email a

address

password

mobile number

REGISTER

Already Registered?

LOGIN



21:35

urnkc ug@mail.ug.kc.

.....

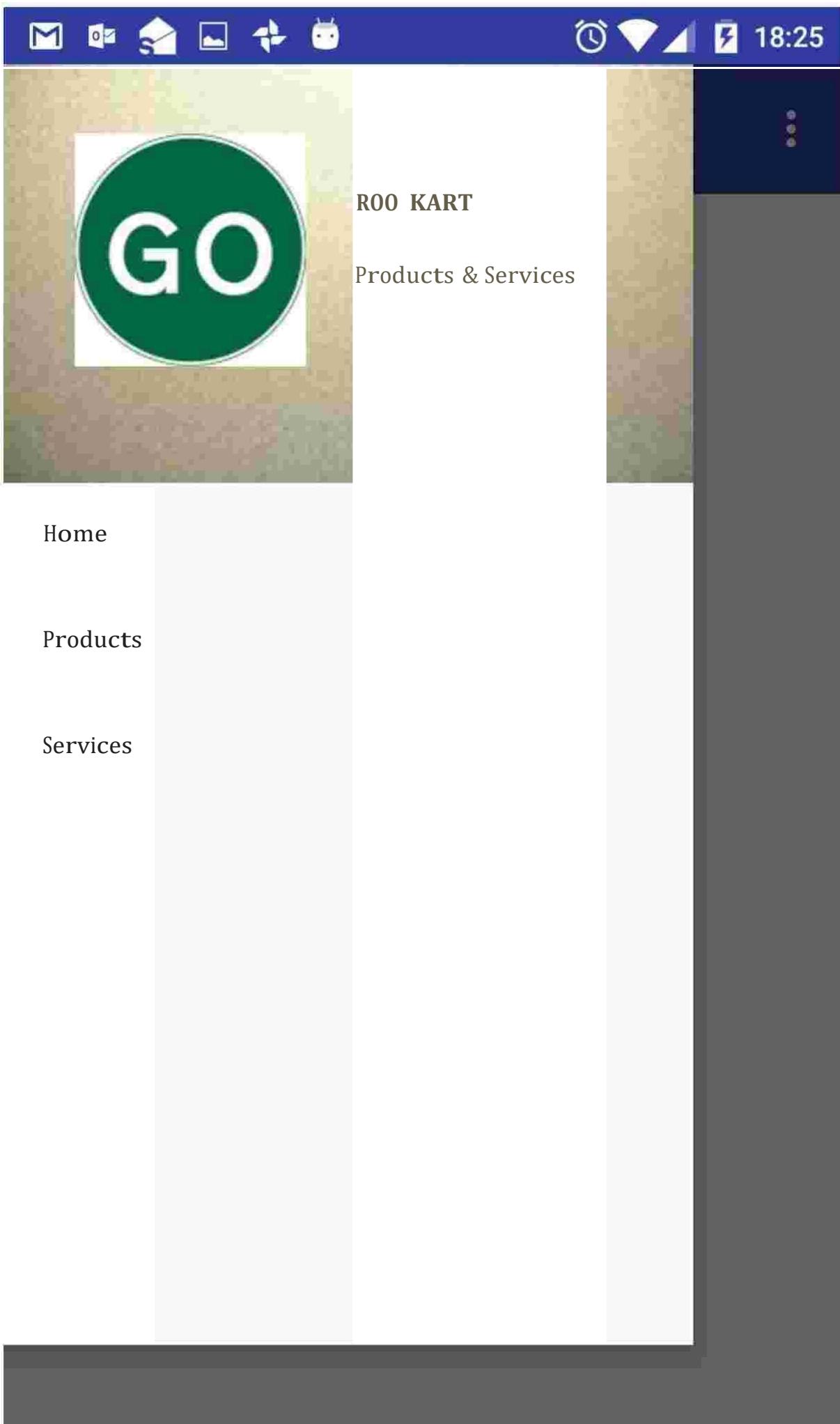
edu

69658966599

REGISTER

Already Registered?

LOGIN





18:25

RooKart



LISTVIEW

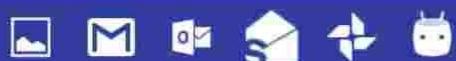
GOOGLE VIEW



Pineapple

Rs.200

BUY



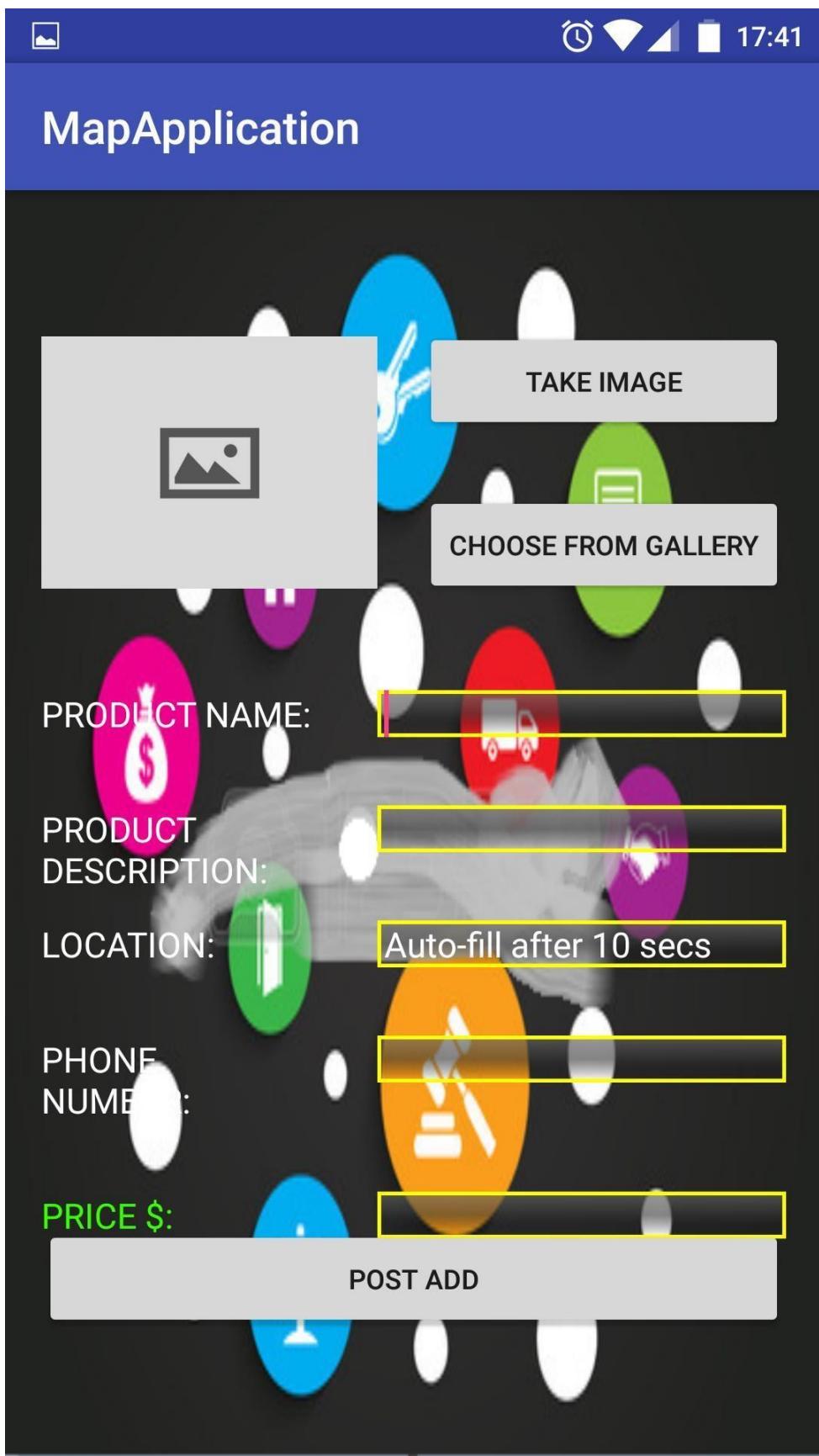
18:25

RooKart



LISTVIEW

GOOGLE VIEW





17:41



Images



Screenshot_20161014-174148.png



17:41

268 KB

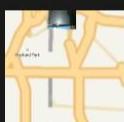


Screenshot_20161014-174139.png



17:41

569 KB



Screenshot_20161014-174124.png



17:41

460 KB



Screenshot_20161014-174108.png



17:41

562 KB



Screenshot_20161014-174044.png



17:40

795 KB



Screenshot_20161014-173802.png



17:38

1.98 MB



IMG_20161014_173756.jpg



17:37

2.03 MB

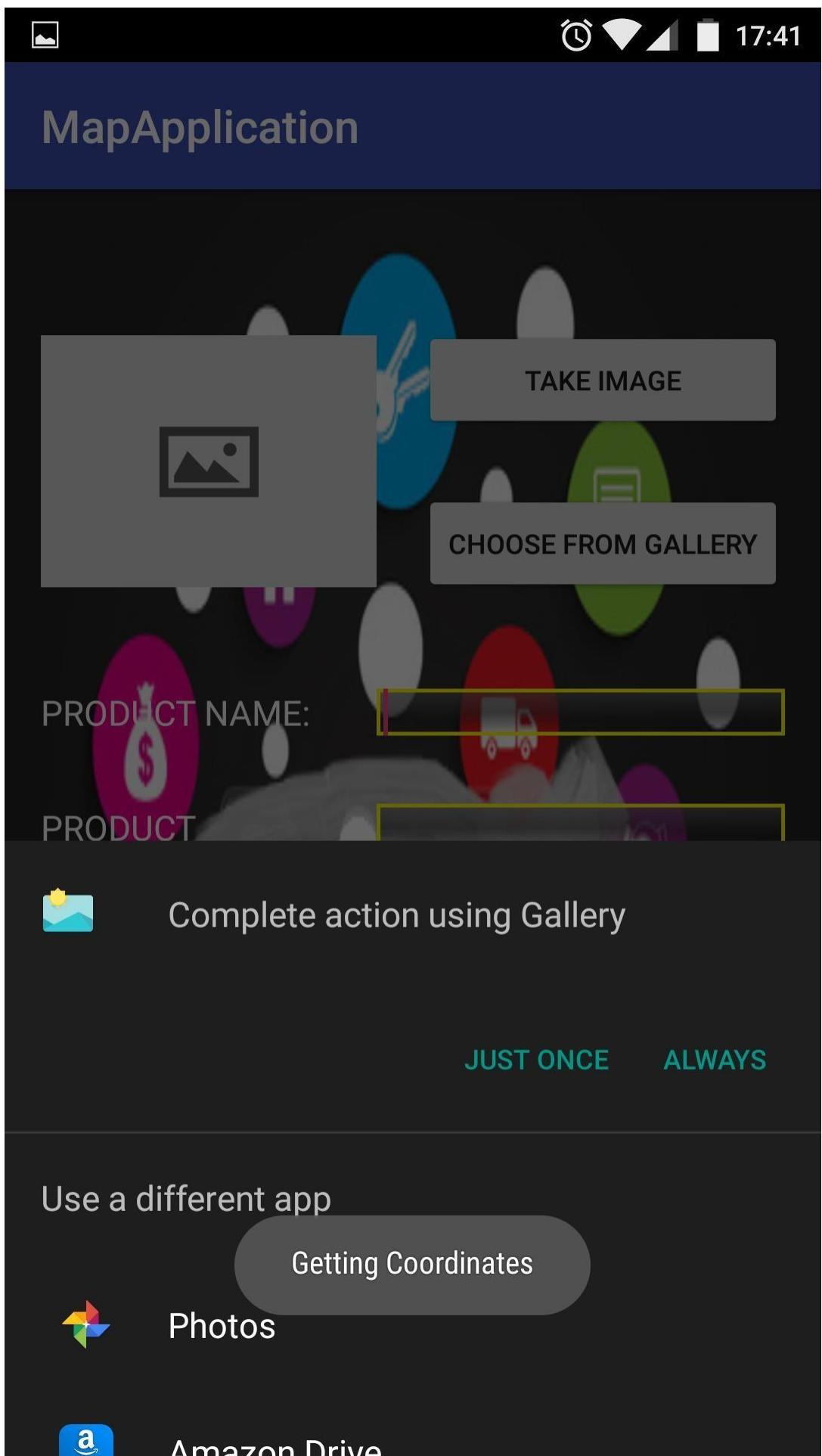


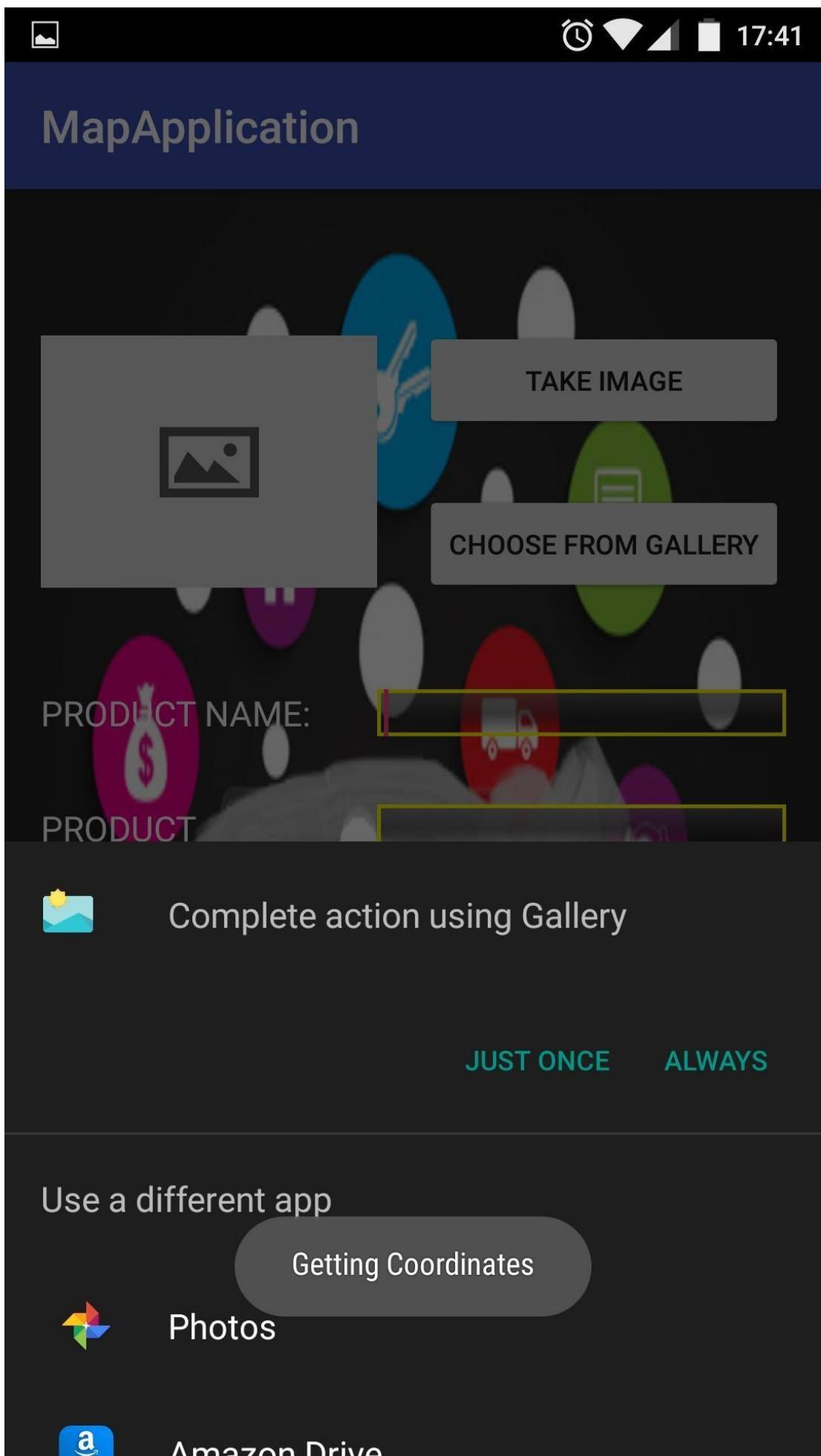
Screenshot_20161014-173744.png



17:37

255 KB

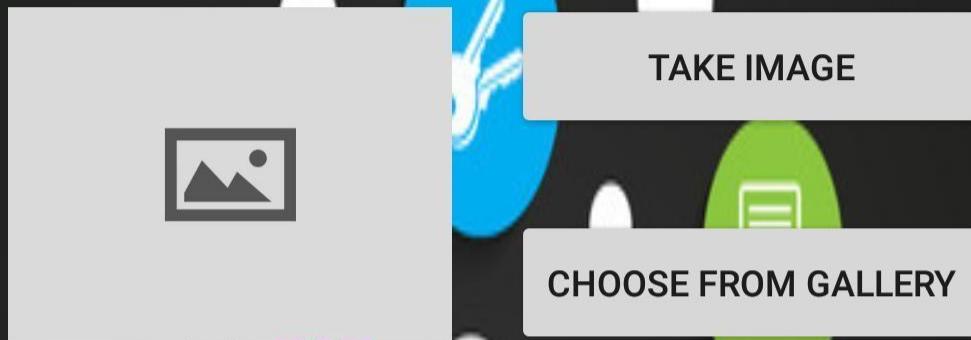






17:41

MapApplication



PRODUCT NAME:

PRODUCT
DESCRIPTION:

LOCATION:

Auto-fill after 10 secs

PHONE
NUMBER:

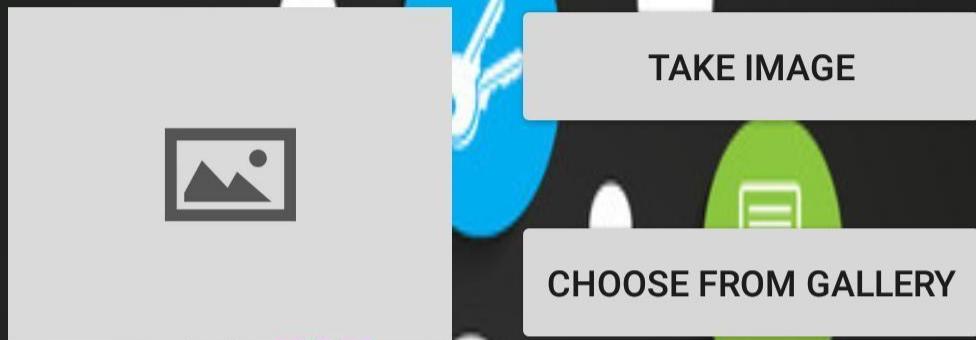
PRICE \$:

POST ADD



17:41

MapApplication



PRODUCT NAME:

PRODUCT
DESCRIPTION:

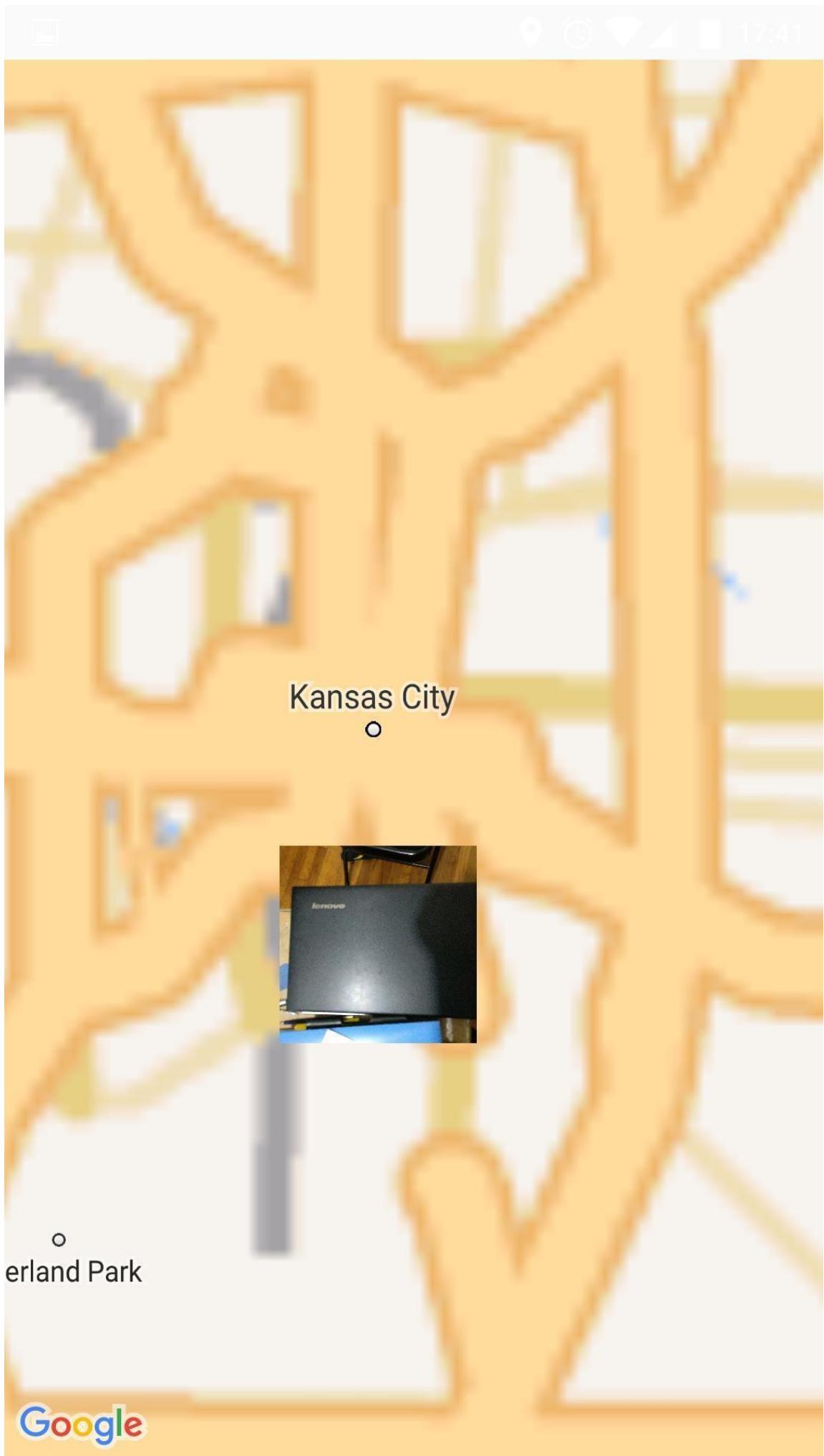
LOCATION:

Auto-fill after 10 secs

PHONE
NUMBER:

PRICE \$:

POST ADD



o
erland Park

Google



17:40

MapApplication



TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

Lenovo Laptop

PRODUCT
DESCRIPTION:

model: Z580, 2 years old

LOCATION:

5426 Charlotte Street Kan

PHONE
NUMBER:

8157393937

PRICE \$:

...

POST ADD



17:37

MapApplication

TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

PRODUCT



Complete action using Camera

JUST ONCE

ALWAYS

Use a different app



Camera

PicsArt



Retrica



17:44

MapApplication



TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

Computer Mouse

PRODUCT
DESCRIPTION:

Zebronics, gaming mouse

LOCATION:

5426 Charlotte Street Kan

PHONE
NUMBER:

62826493829

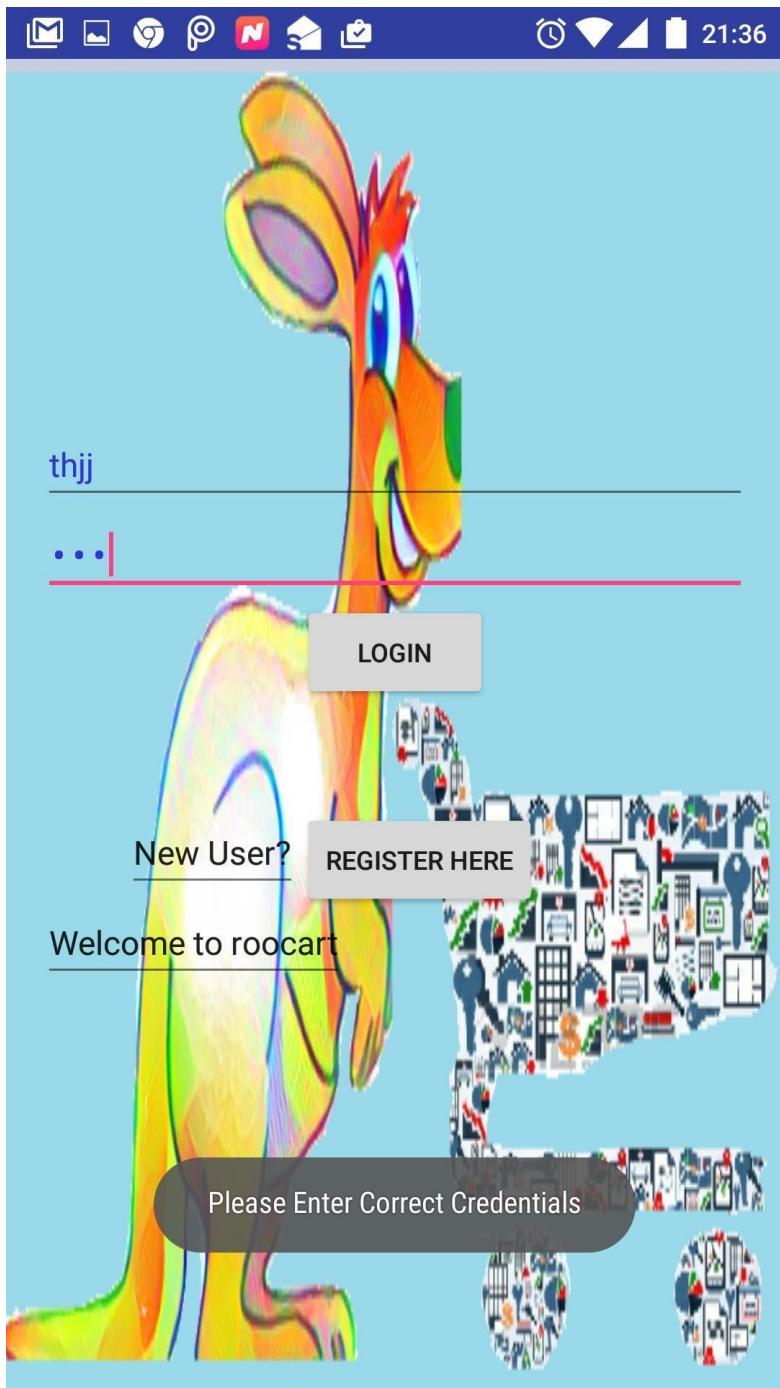
PRICE \$:

...

POST ADD

5.11 Unit Testing:

Please find the Screen shots of the validations



occurred.



21:36

UMKC Email address

password

LOGIN

the

I thanks



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



Please Enter Correct Credentials



?1😊

,

.





21:35

umkc

ug

.....
mobile number

UMKC email address only

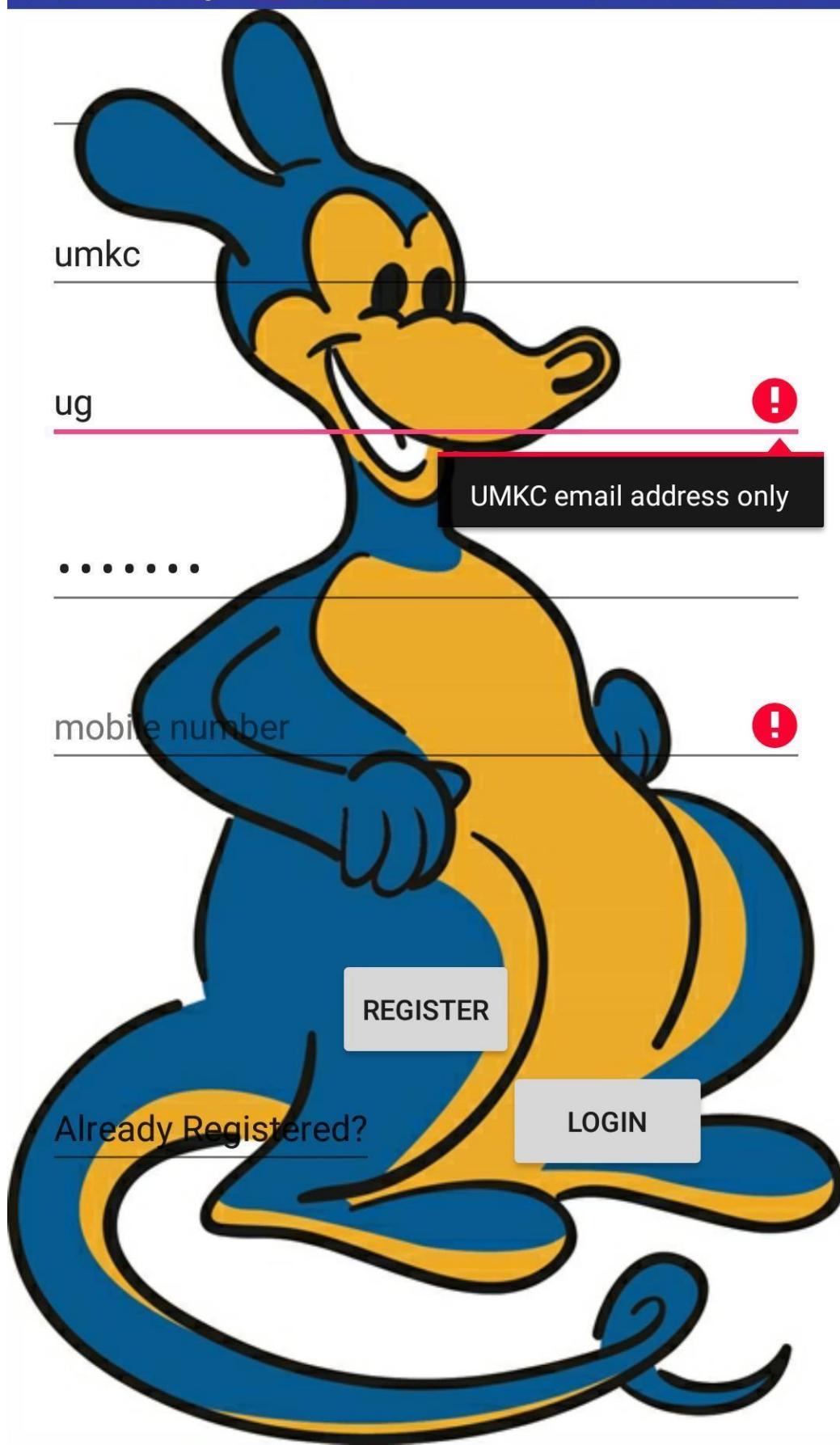
!

!

REGISTER

LOGIN

Already Registered?





21:35

umkc

ug

password



at least 6 characters

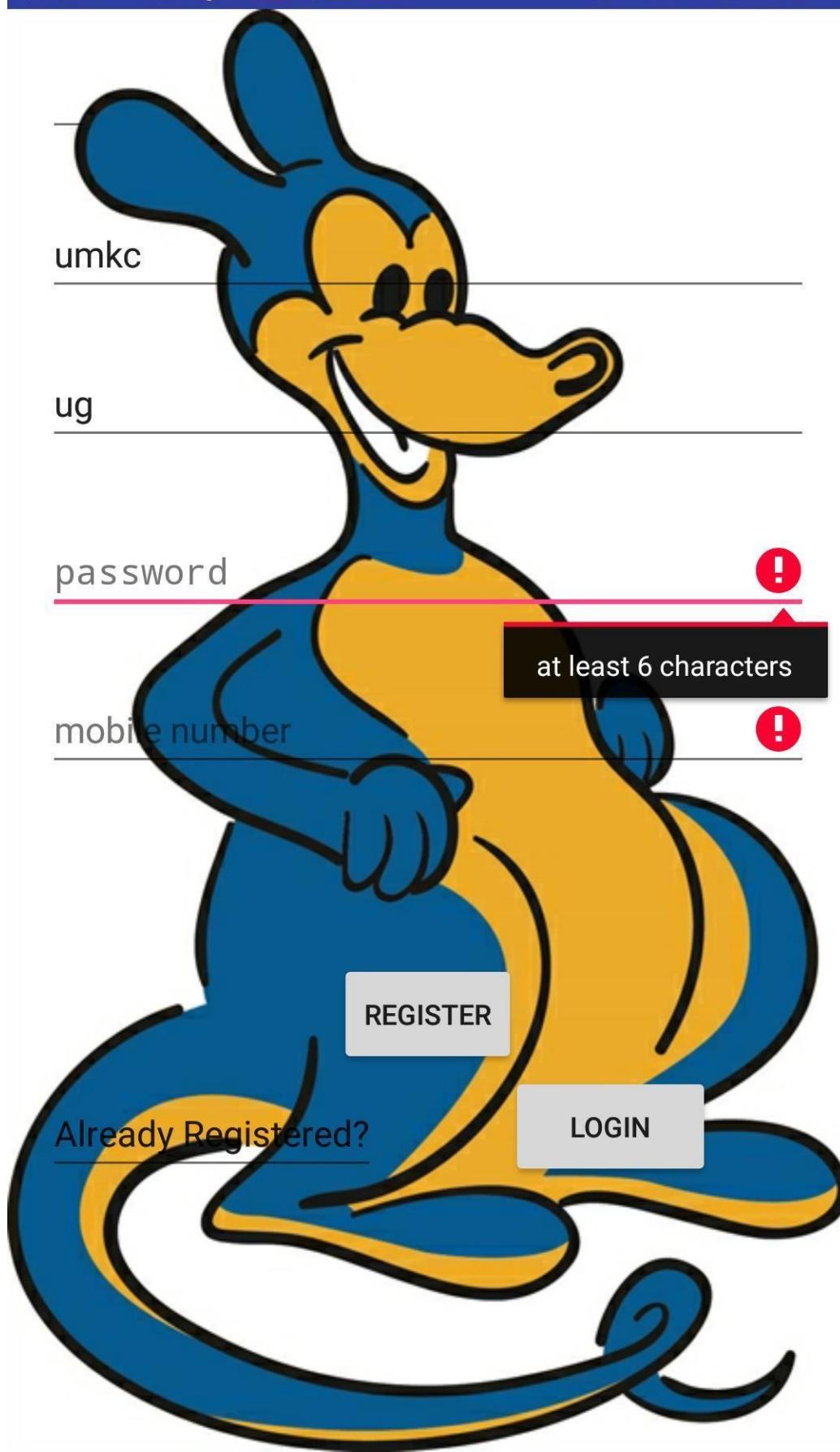
mobile number

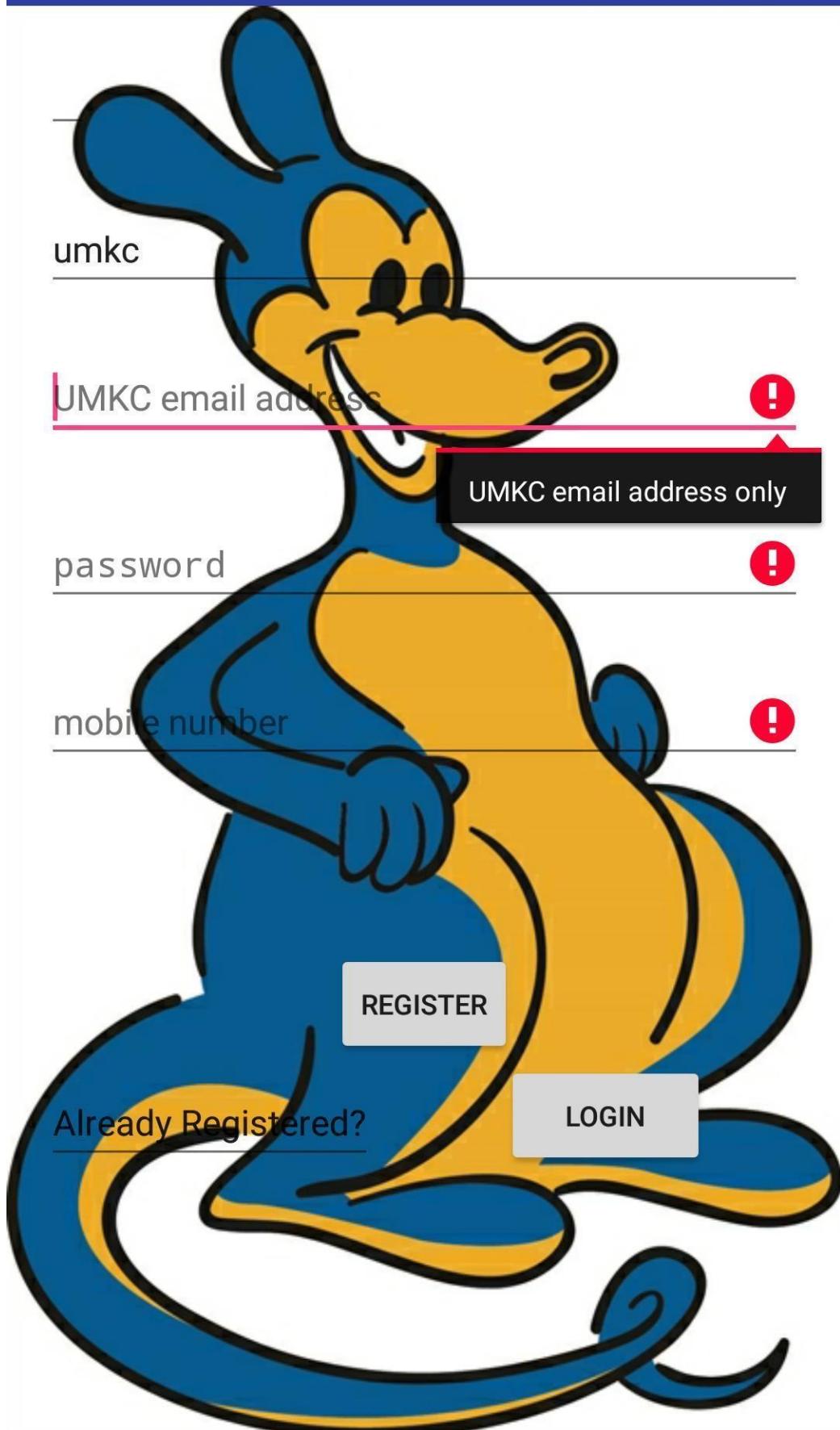


REGISTER

Already Registered?

LOGIN





Recent developments:

User credentials, personal Details, All available Products and Services are Stored globally at Mlab, Mongo DB.

The screenshot shows the mLab Cloud-hosted interface for the 'rookart' collection. At the top, there is a navigation bar with links for 'COMPANY', 'PRODUCT', 'SUPPORT', and 'CLOUDS'. Below the navigation bar, there is a search bar and a user profile section. The main area displays the 'Documents' tab for the 'rookart' collection. It shows 10 documents out of 10 total. Each document is represented by a card with fields: '_id', 'username', 'password', 'email', and 'phone'. The 'username' field contains values like 'hi', 'rajeshkollipara', 'sriharsha', and 'rajeshk'. The 'password' field contains values like 'Rajesh123' and 'Harsha123'. The 'email' field contains values like 'rajeshk@gmail.com' and 'sriharsha@mail.com'. The 'phone' field contains values like '2702937879' and '1234567890'. There are also 'Edit' and 'Delete' buttons for each document.

_id	username	password	email	phone
5823a03/czer103ze53e980	hi			
5823d02640096613400t3e2ub	rajeshkollipara	Rajesh123	rajeshk@gmail.com	1234567890
5823b2d8bd966f34b5f3e4ce	sriharsha	Harsha123	sriharsha@mail.com	
581bc/f40096613409531ts2	rajeshk	Rajesh123	rajeshk@gmail.com	2702937879



username:

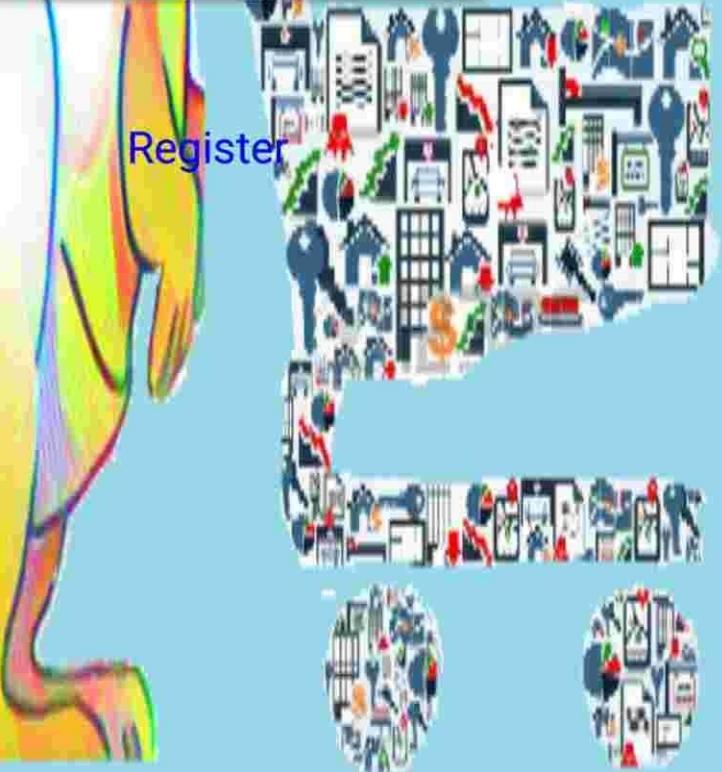
rajeshkollipa

password:

• • • • •



LOGIN



Register

j



17:39

username:

Rajeshguptakollipara

password:

.....

confirm password:

word:

.....

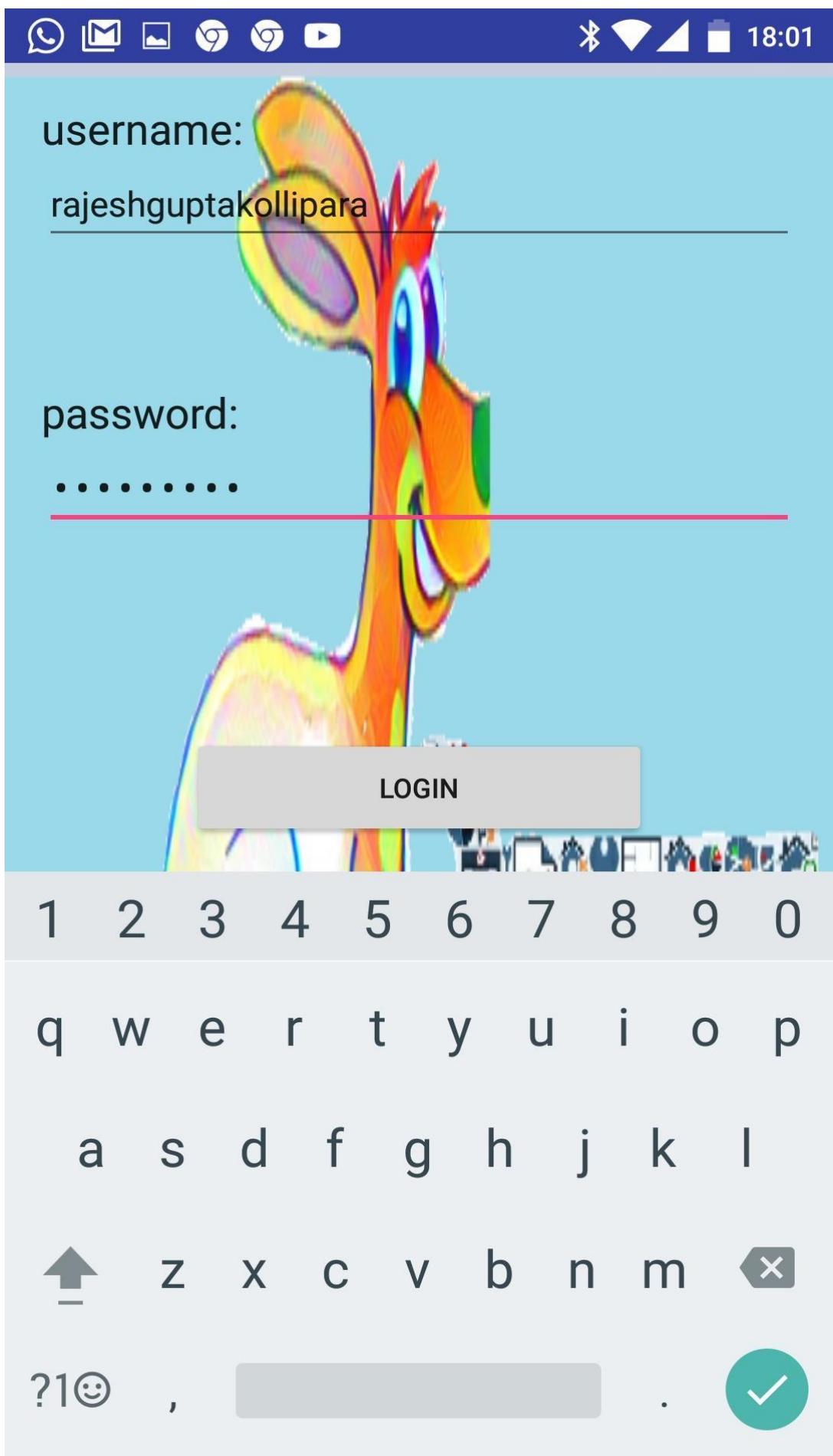
Email:

rajesh123@gmail.com

phone number:

1234567890

REGISTER



H ◊ ,

◊ =◊ a a:39

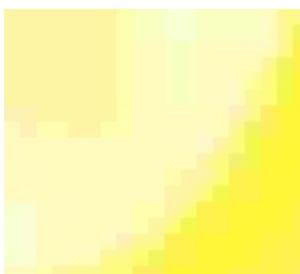
iphone 7

rajesh@gmail

8162663258

unlocked and half price

POST



Hi

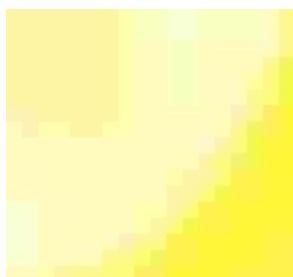
Hi

iphone 7

rajesh@gmail.com

162663258

unlocked and half price



USEIT





8:50



IPAD

GOOD AND NEW



IPHONE 7

**UNLOCKED AND HALF
PRICE**

POST YOUR ITEM



5.12 Project Management:

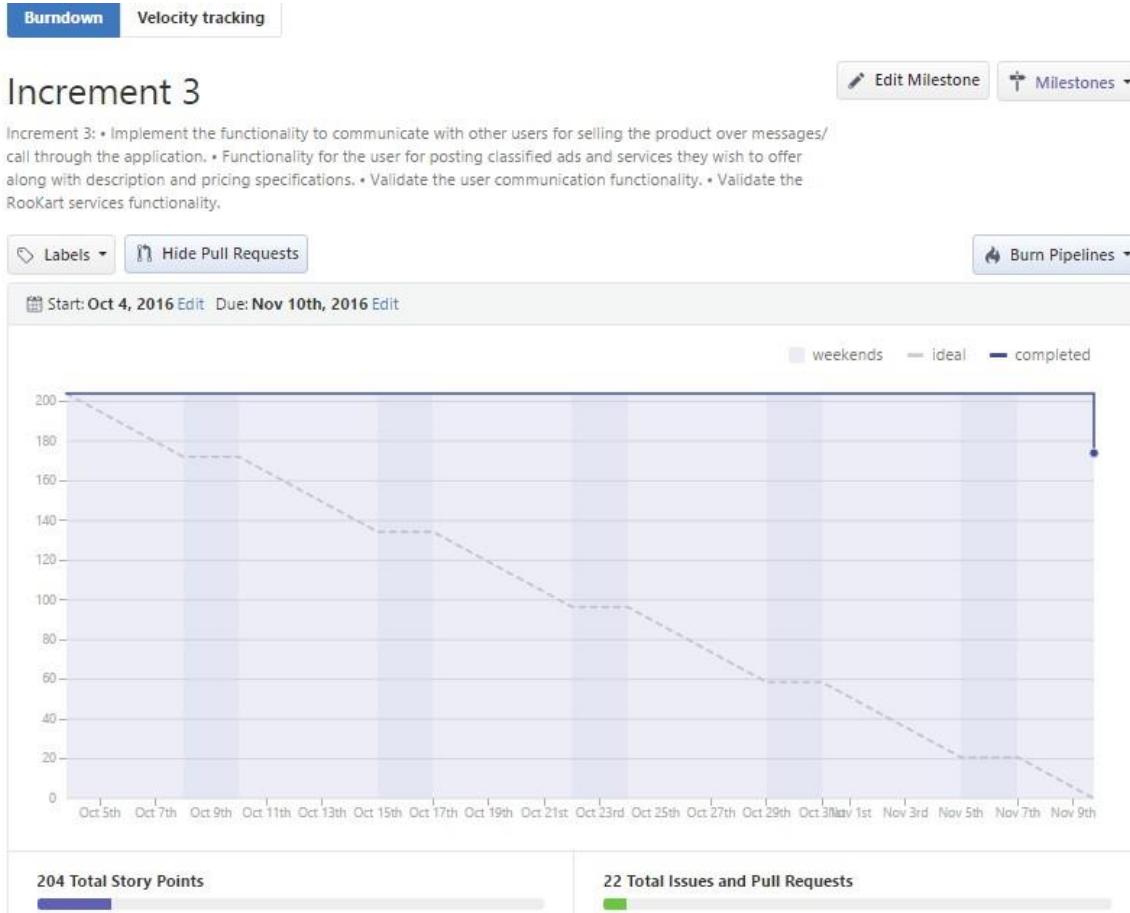
RooKart Project Implementation:

The screenshot shows a GitHub milestone page for 'Increment 3' of the 'RooKart' project. The page header includes the GitHub logo, user information, and navigation links for Pull requests, Issues, Gist, and ToDo. Below the header, there are tabs for Code, Issues (23), Pull requests (0), Boards, Reports, Projects (1), and Wiki. The main content area displays the milestone details: 'Due by November 10, 2016' and '4% complete'. A description of the tasks for this increment is provided, followed by a 'Show more' link. A button labeled 'See this milestone on the board' is present. The bottom section lists 21 open issues, each with a title, description, and progress bar. The issues are:

- Story 3.3 Validate the user while logging into RooKart application. (5)
- Story 3.2 Update the database with the user details. (5)
- Story 3.1 Modify the log in functionality. (8)
- Story 3.6 Connect the Services functionality to RooKart database. (5)
- Story 3.5 Connect the Products functionality to RooKart database. (5)
- Story 3.4 Create the Mongo DB for RooKart application. (5)
- Epic 3.2: Create database & Connect to RooKart application. (15)
- Story 3.10 Implement the database connections for Product functionality. (5)
- Story 3.9 Modify the List & Google views for Product functionality. (5)
- Story 3.8 Re-design few fields in product screen. (5)

<input type="checkbox"/>	 ⓘ Story 3.9 Modify the List & Google views for Product functionality. 5	#53 opened 29 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.8 Re-design few fields in product screen. 5	#55 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.7 Modify the UI for RooKart Product screen. 5	#51 opened 29 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Epic 3.3: Build & enhance the Products functionality. 20	#50 opened 30 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.11 Modify the UI for RooKart Services screen. 5	#56 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.12 Re-design few fields in services screen. 5	#57 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.13 Modify the List & Google views for Services functionality. 5	#58 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.14 Implement the database connections for Services functionality. 5	#59 opened 27 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Epic 3.4: Build & enhance the Services functionality. 20	#63 opened 26 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.15 Plan the increment & create the stories. 3	#60 opened 27 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	 ⓘ Story 3.16 Create the project increment report. 3	#61 opened 27 minutes ago by Lavakumar90	In Progress	

Burn-down Chart:



Story Points:

Remaining Issues and Pull Requests	Story points
① Epic 3.1: Improvements to RooKart application. RooKart #17 New Issues	15
① Story 3.1 Modify the log in functionality. RooKart #44 In Progress	4
① Story 3.2 Update the database with the user details. RooKart #45 In Progress	3
① Story 3.3 Validate the user while logging into RooKart application. RooKart #46 In Progress	3
① Story 3.4 Create the Mongo DB for RooKart application. RooKart #47 In Progress	3
① Story 3.5 Connect the Products functionality to RooKart database. RooKart #48 In Progress	3
① Story 3.6 Connect the Services functionality to RooKart database. RooKart #49 In Progress	3
① Epic 3.3: Build & enhance the Products functionality. RooKart #50 In Progress	20
① Story 3.7 Modify the UI for RooKart Product screen. RooKart #51 In Progress	3
① Story 3.9 Modify the List & Google views for Product functionality. RooKart #53 In Progress	3
① Story 3.10 Implement the database connections for Product functionality. RooKart #54 In Progress	3
① Story 3.8 Re-design few fields in product screen. RooKart #55 In Progress	3
① Story 3.11 Modify the UI for RooKart Services screen. RooKart #56 In Progress	3
① Story 3.12 Re-design few fields in services screen. RooKart #57 In Progress	5
① Story 3.13 Modify the List & Google views for Services functionality. RooKart #58 In Progress	5
① Story 3.14 Implement the database connections for Services functionality. RooKart #59 In Progress	5
① Story 3.15 Plan the increment & create the stories. RooKart #60 In Progress	8
① Story 3.16 Create the project increment report. RooKart #61 In Progress	8
① Epic 3.5 Increment planning & documentation. RooKart #62 In Progress	15
① Epic 3.4: Build & enhance the Services functionality. RooKart #63 In Progress	20
① Epic 3.2: Create database & Connect to RooKart application. RooKart #64 In Progress	15

6. Increment – IV:

Increment 4 includes

- Design and Implementation of the application with the Login Page, Registration Page, Home Page, Products Page, Services Page, Seller's Forum Page, Buyer Page.
- UML Class Diagram, State Diagrams, Sequence Diagram, Wire Frames related to some of the above described functionalities.

6.1 Functionalities:

Login Page: Login Page is the landing page upon opening RooKart application, Login page lets the user to login upon successful validation of user credentials. User needs to input registered email id and password. If the user does not have an account on RooKart, he should register.

Register Page: Register page collects the personal information of the user such as, User Name, Email ID, Password and Mobile Number and creates an account for the user.

Home Page: Once the user account is verified, Post Login user is redirected to this Home page, which offers the in app services as Products and Services. Upon on selecting one the user is redirected to the Product/ Service Page.

Products Page: Products page Show the List view and Google map view of all the products posted for sale. Products are displayed as List in First Display manner. Products can be viewed on the Google Map View, which shows the nearest available product to the user, based on his location using GPS Tracker.

Services Page: Services Page shows List View and Google map view of all available services posted. Services can be viewed on the Google Map View, which shows the nearest available Service to the user, based on his location using GPS Tracker.

Sell Page: User who wants to Sell their Products and Services to the other people in the community can do by posting the details of the Product along with Images and complete description with their Location details, etc.

Post Add: Post Add enables the user to post the details inscribed by the user on the sell page to the list of all available Products/Services Pages on the buy Section.

6.2 Development:

Login: Users login using their registered UMKC email address and password.

Registration: Collects the personal information of the user and creates an account.

Information Collected: User Name, Email id, Password, Phone Number.

Home page: Consists two buttons, Products, Services.

Products Page: List of Products, Buy option, Contact Seller.

Service Page: List of Services or ADDs Posted, Buy option, Contact Seller option.

Sell Page: User can post the ads related to the Products and Services they wish to offer along with the complete description, Location Details, Images etc.

6.3 Wire Frames:

The wireframe depicts a simple sign-in interface. At the top, the word "Sign In" is centered above a horizontal line. Below this line is a label "Email" followed by an input field containing the placeholder "ABCDE@mail.umkc.edu". Underneath is a label "Password" followed by an input field containing six asterisks ("*****"). To the left of the password field is a blue rectangular button labeled "Sign In". To the right of the password field is a checkbox labeled "Remember Me". Below these fields is a link underlined in blue, reading "Forgot your password?". A horizontal line separates this section from the bottom. At the bottom, the text "Don't have an account yet?" is centered above a blue rectangular button labeled "Register".

Sign In

Email

ABCDE@mail.umkc.edu

Password

Sign In

Remember Me

[Forgot your password?](#)

Don't have an account yet?

Register

Registration Page:

If the user is a new User he can Register on clicking Register button, Register Page collects the user's personal information such as User Full Name, Email id, Password and Phone Number.

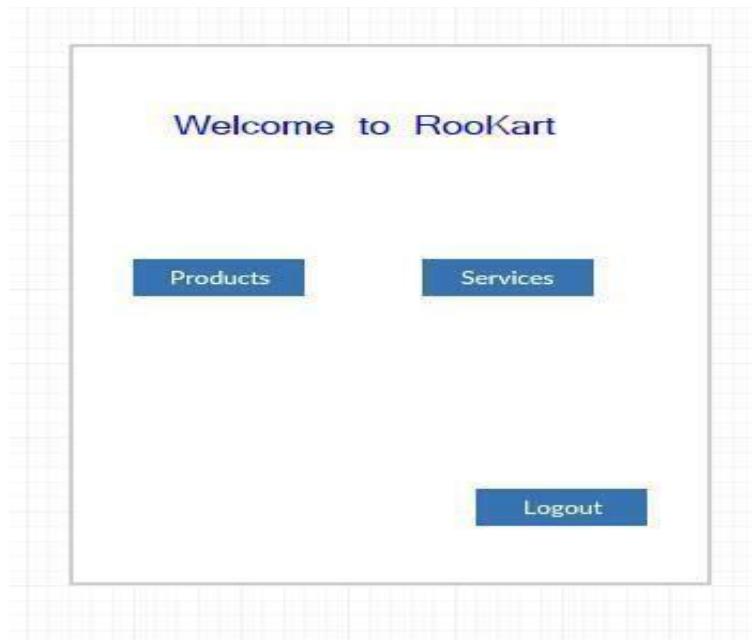
Post the Login, the user is redirected to the Home Page. Home page consists of two buttons, Products and Services.

The screenshot shows a registration form titled "Register ROOKART". The form fields include:

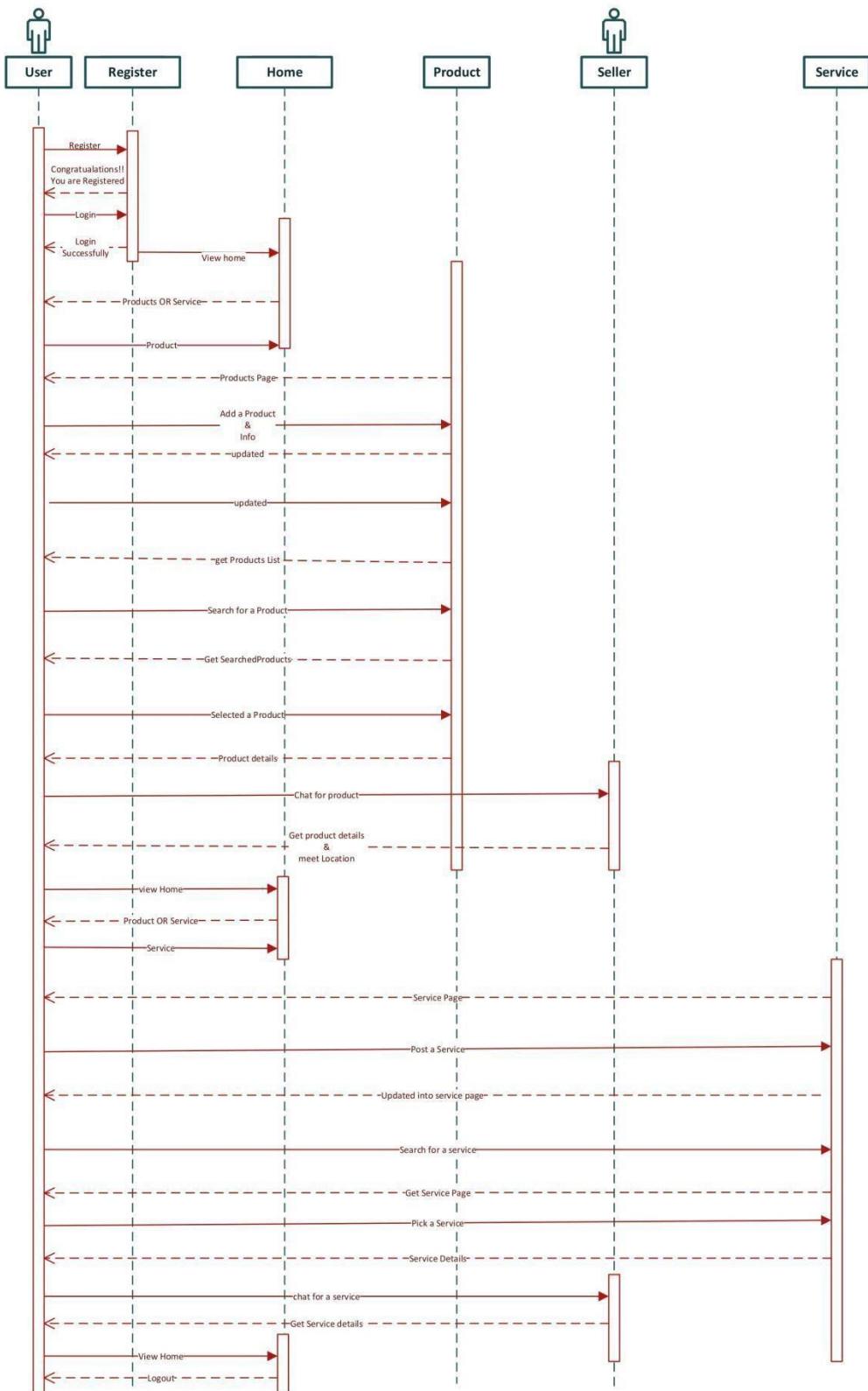
- Full Name: RAGHU PAVAN
- Email: ABCDE@mail.umkc.edu
- Password: [REDACTED]
- Mobile Num: [REDACTED]
- A checkbox labeled "I have read and agree to be bound by the Terms and Conditions and Privacy Policy".

Below the form are two buttons: "Register" and "Login". At the bottom left is the text "Already Registered?".

Home Page:



6.4 Sequence Diagram of the application:



6.5 Class Diagram:

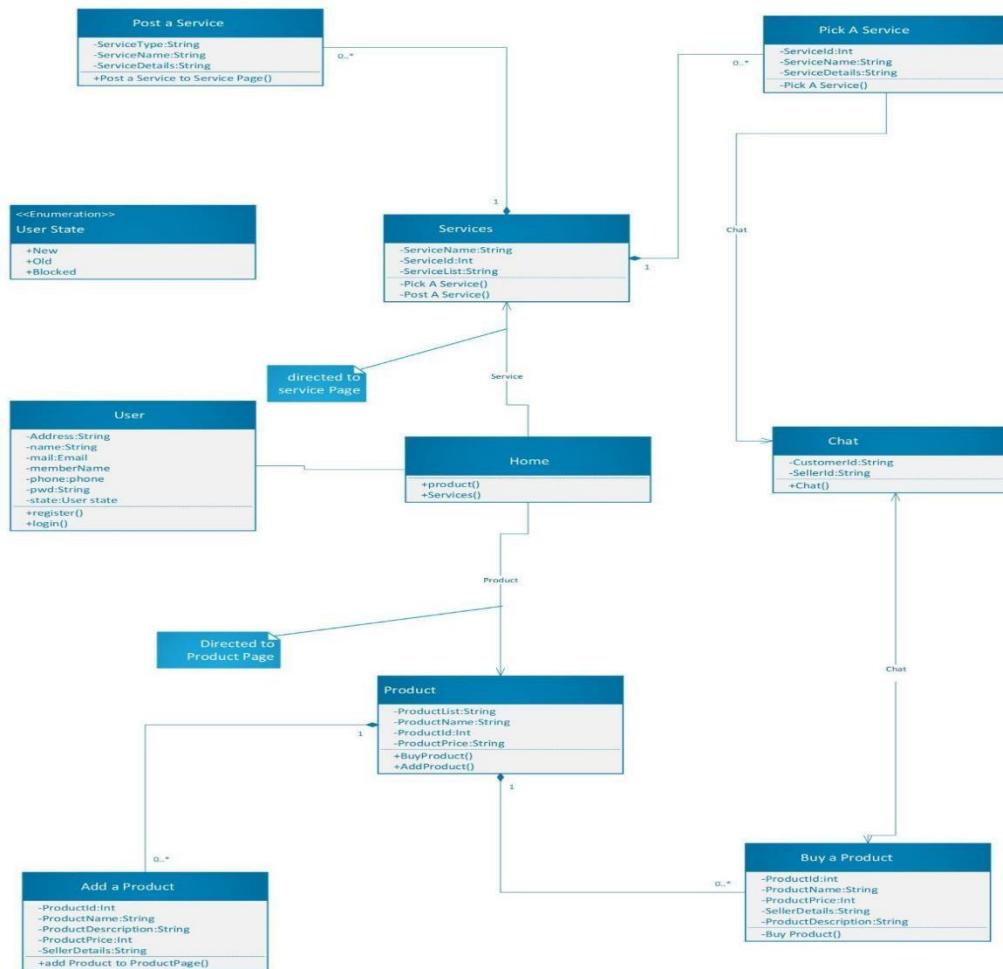
The class graph underneath portrays the stream of the framework and process.

Client Class had factors, for example, User Name, Email, Password, Phone number. These points of interest are utilized for enlistment. Post enlistment client can login utilizing Email and Password. At that point the framework approves the qualifications utilizing Authentication work and diverts the client to Home Page.

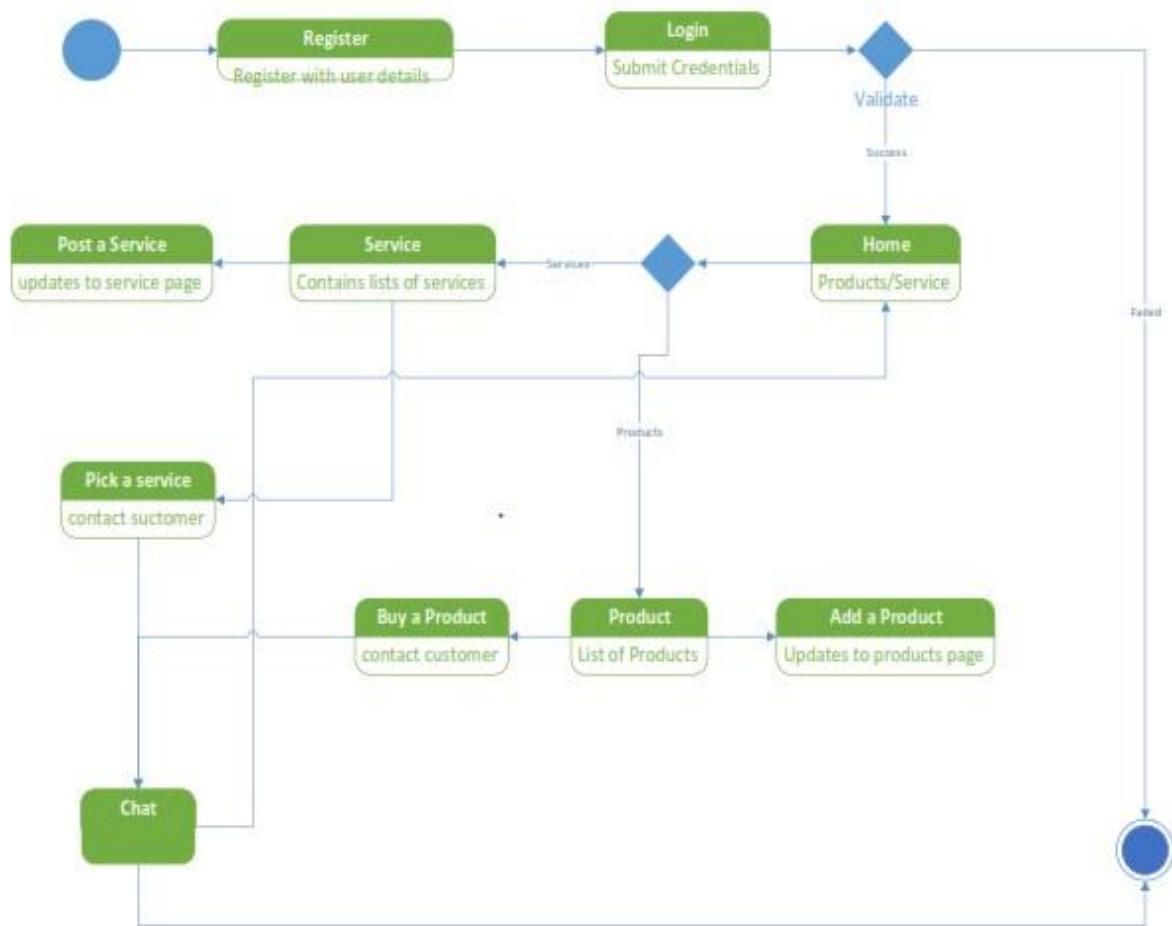
On the Home Page, two functionalities are Provided which are Products and

Administrations. Client can choose one among them at once. On snap usefulness is empowered for both and they divert the client to the separate pages.

Item Page: It comprises of two functionalities, buy a Product, Sell a Product.
Benefit Page: Post a Service, pick a Service functionalities are given.



6.6 State Diagram:



6.7 Mock Ups



Services

Post

Two service offerings are listed:

- Swimming**: Swimming in 2 hrs
\$50/hr. **Use it.**
- Salsa classes**: \$10/day. **Use it.**

The background features a faint watermark of a person holding a globe, with various icons like gears, a hand, and a computer monitor scattered around.

Sell Your Item !!!!

Form fields for selling an item:

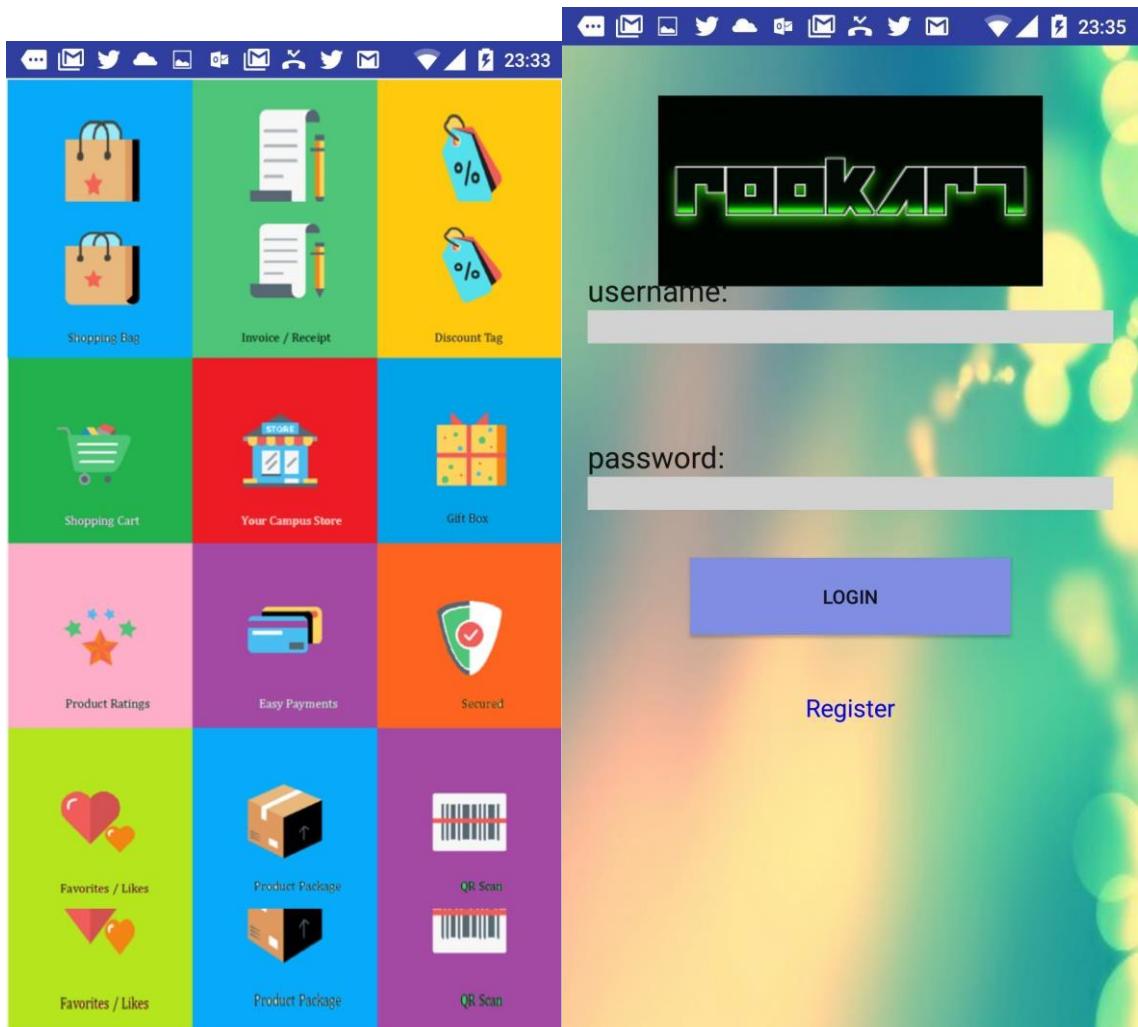
- Add the Product Name**
- Product Description**
Enter complete description of the product
- Price of the Product**
- Price you want to sell your Item**

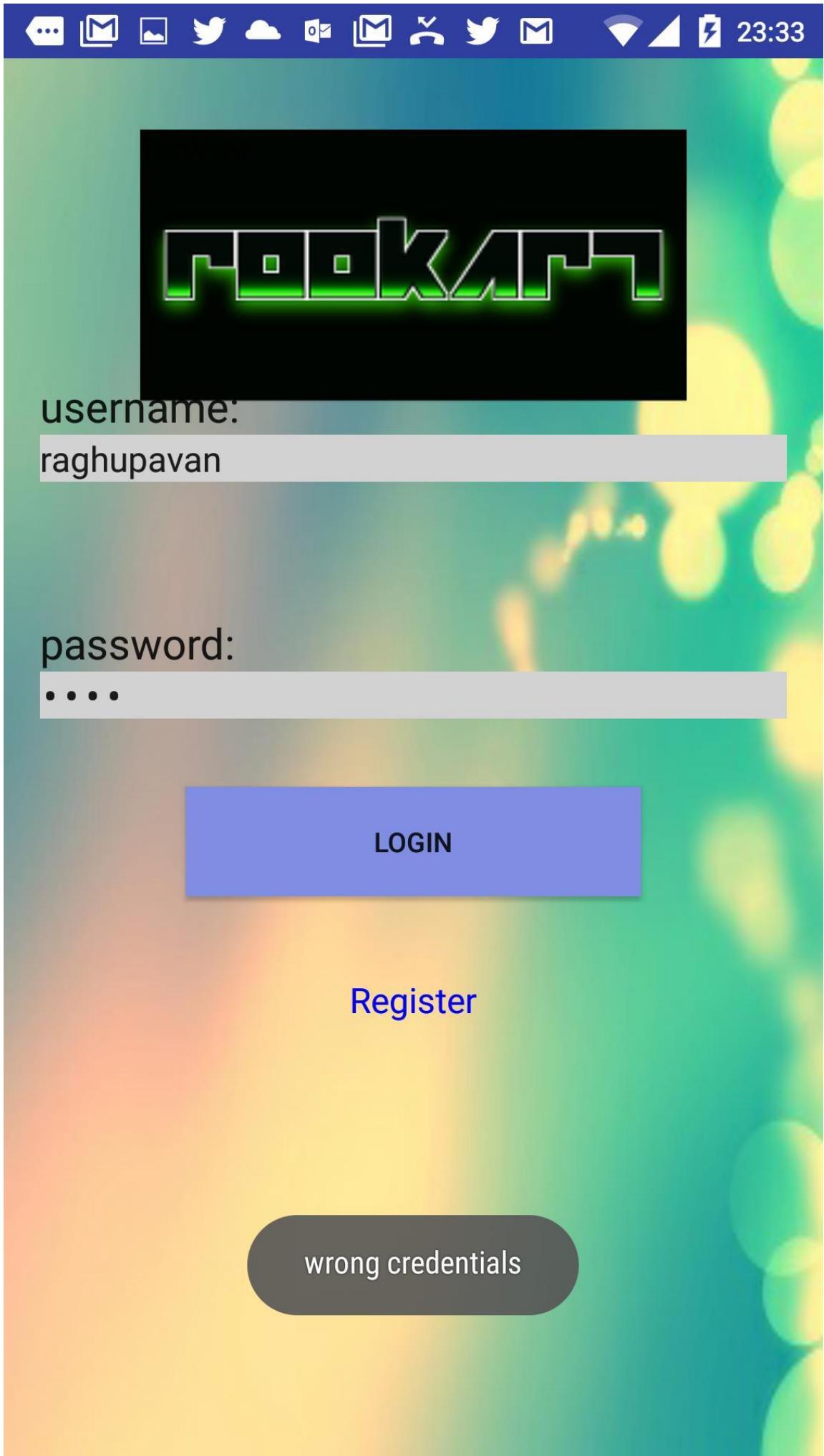
A large red button labeled **sell** is prominently displayed next to a blue shopping cart icon.

6.8 Deployment:

After code is build, gradle scripts are Run, and deployed into OnePlus 3 android mobile Phone.

Splash Screen







Title

iPhone7

Description

used and unlocked

mobile:
8162996877

Email:
esh.kollipara93@gmail.co

Expected Price (\$): 150

use my location

select location from map

lat/lng: (40.709644352878676,-74.00180708616972)

product successfully posted

CLICK TO SELL



username:

password:

confirm password:

Email

phone number:

REGISTER



username:

jshjz

password:

.....

confirm password:

.....

Email

sbbsbd

invalid email address

phone number:

67946499497

check details



username:

raghupavan1

password:

.....

confirm password:

.....

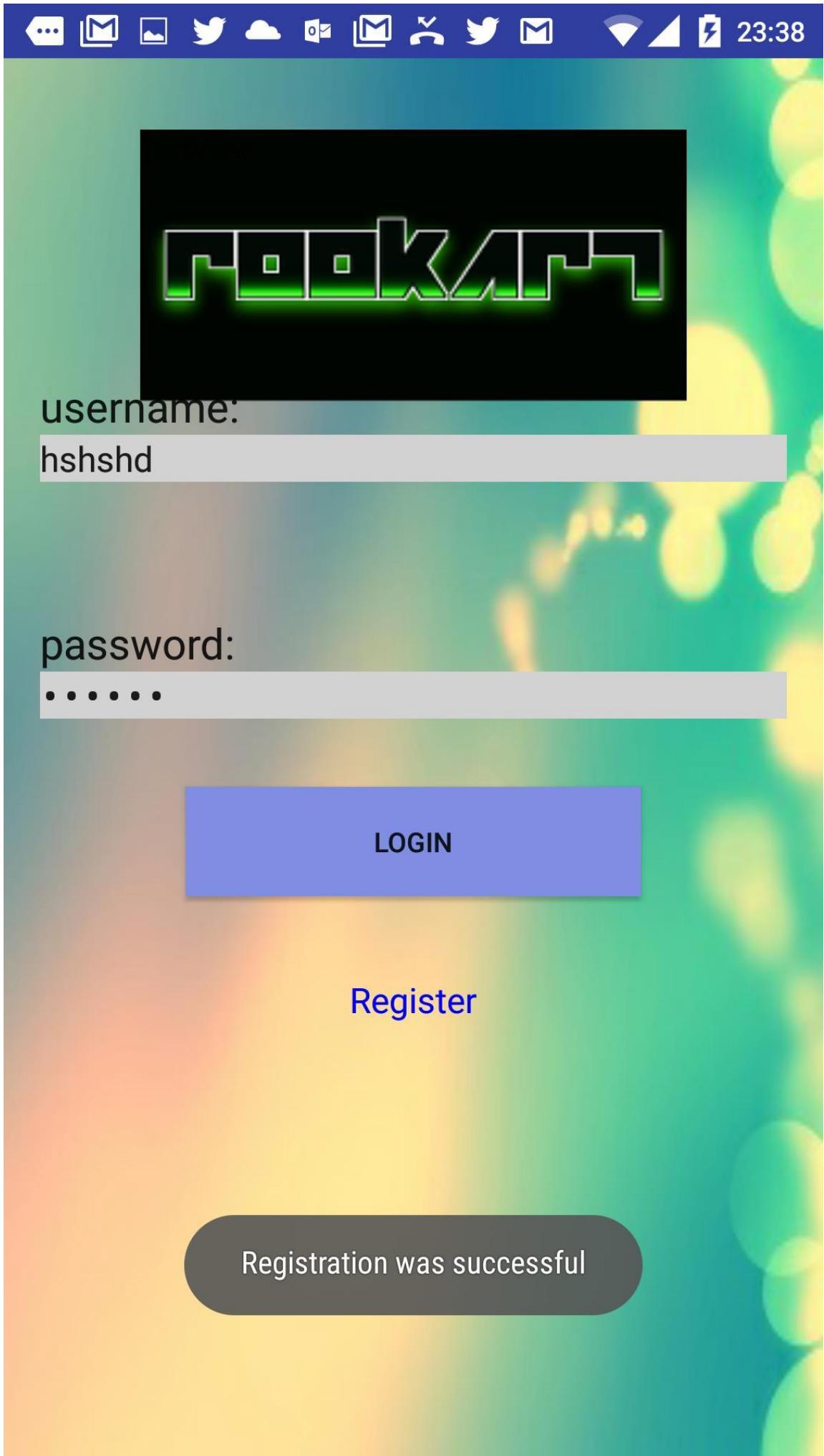
Email

rvvgd@mail.umkc.edu

phone number:

85285285280

REGISTER





RooKart

PRODUCT

SERVICE





RooKart

PRODUCT

SERVICE





RooKart

PRODUCT

SERVICE





RooKart

PRODUCT

SERVICE



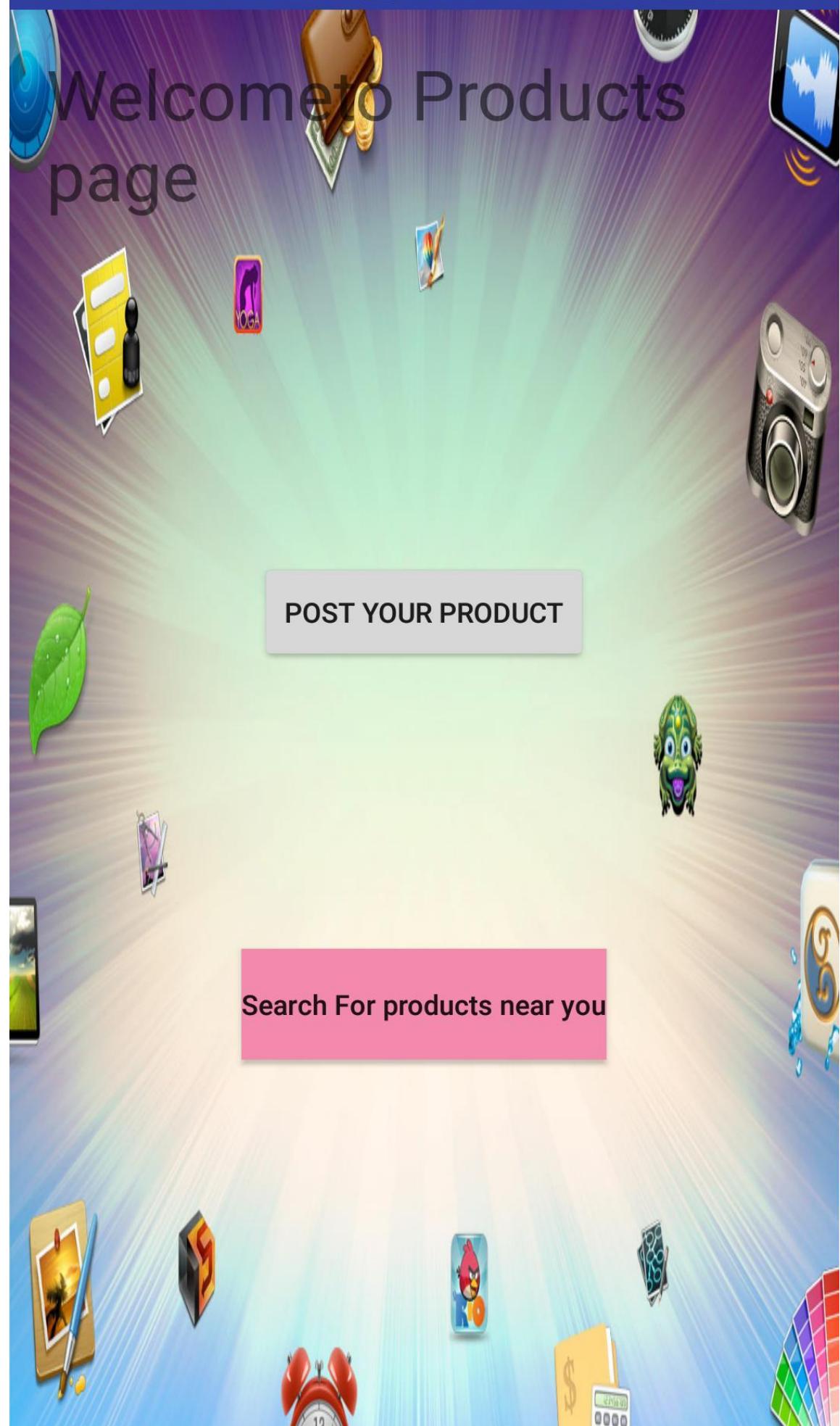


RooKart

PRODUCT

SERVICE







Title

Mac book

Description

Mac book air , 2014 model.

mobile:
8253562358

Email: ss42f@mail.umkc.edu

Expected Price (\$): 500

use my location

select location from map

lat/lng: (40.71008910958615,-74.00222349911928)

CLICK TO SELL



SUCCESS





Title

Mac book

Description

Mac book air , 2014 model.

mobile:
8253562358

Email: ss42f@mail.umkc.edu

Expected Price (\$): 500

use my location

select location from map

lat/lng: (40.71008910958615,-74.00222349911928)

product successfully posted

CLICK TO SELL



Welcome to services page

POST YOUR AD.

FIND YOUR STUFF



Title

Maths Tutoring

Description

Engineering Mathematics

mobile:
88765467867

Email: ss42f@mail.umkc.edu

Estimated Price(\$): 500

use my location

select location from map

service posted

POST YOUR SERVICE

Recent Developments in DB:

Connection to Database.

User credentials, personal Details, All available Products and Services are Stored globally at Mlab, Mongo DB.

The screenshot shows the mLab web interface for the 'rookart' database. At the top, there are connection instructions for the mongo shell and a standard MongoDB URI. Below this, a warning message states: "Sandbox databases do not have redundancy and therefore are not suitable for production. Visit our guide to running in production for more info." The main area is divided into tabs: Collections, Users, Stats, Backups, and Tools. The 'Collections' tab is selected, displaying a table of collections with columns: NAME, DOCUMENTS, CAPPED?, and SIZE. The collections listed are: applied (128 documents, false, 37.98 KB), products (10 documents, false, 11.33 KB), rookart (12 documents, false, 10.81 KB), service (0 documents, false, 7.98 KB), service (0 documents, false, 7.98 KB), and services (11 documents, false, 11.06 KB). A 'Delete all collections' button is located at the top right of the collection table. On the far right, there is a help icon and a log out button.

The screenshot shows the mLab web interface for the 'products' collection within the 'rookart' database. The 'Documents' tab is selected. At the top, there are buttons for Documents, Indexes, Stats, and Tools, along with options to delete all documents or add a new one. Below this, a search bar and a display mode selector (list or table) are present. The main area shows a list of 7 documents, each with an ID, title ('raiesh', 'iphone7'), and a 'description' field ('unlocked'). To the right of the list is a sidebar titled 'Documents (aka Objects)' containing information about the collection and a note about temporary result collections. The bottom right corner shows the Windows taskbar with the date and time (12/5/2016, 11:46 PM).

6.5 Project Management

Increment 4:

6.5.1 Functionalities to be implemented:

Plan the increment part and prepare necessary documentation.

Implement the additional features for the Products & Services screen.

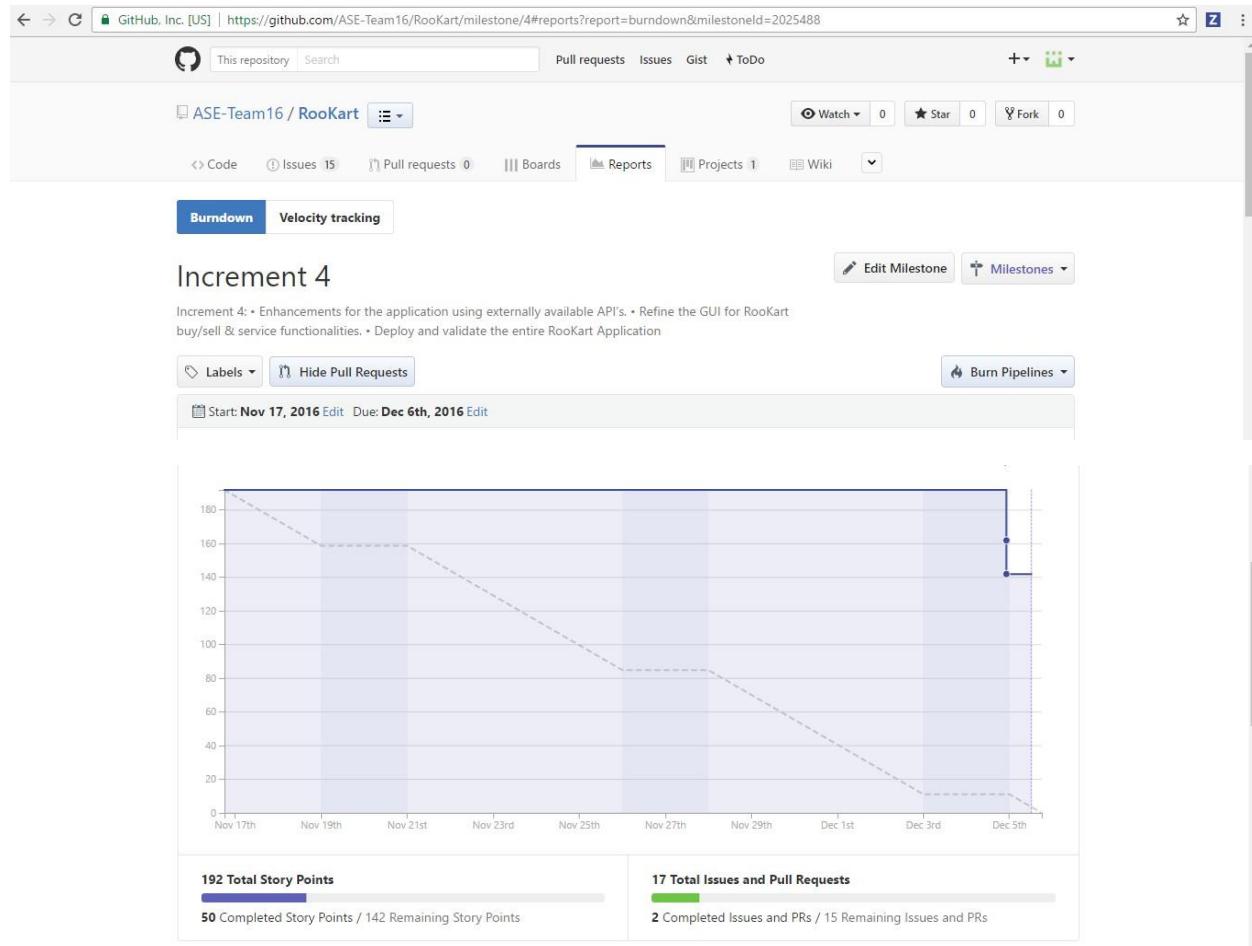
Validate the Products & Services functionality of the RooKart application.

Validate the DB functionality for the RooKart application.

Re-design the User Interface for Products & Services screens.

Integrate the RooKart Products & Services functionality & Validate the end-to-end functionality.

6.5.2 Burndown chart:



6.5.3 User stories:

Remaining Issues and Pull Requests	Story points
① Story 4.1: Plan the increment part and create necessary documents. RooKart #65 In Progress	5
① Story 4.2: Create the necessary stories and point them. RooKart #66 In Progress	5
① Story 4.3: Create the wiki pages & increment report for increment 4. RooKart #67 In Progress	8
① Epic 4.1 Project Management & Documentation. RooKart #68 In Progress	20
① Story 4.4: Add the additional features for the products screen. RooKart #69 In Progress	8
① Story 4.5: Add the additional features for the services screen. RooKart #70 In Progress	5
① Story 4.6: Validate the addition of products to the RooKart application. RooKart #71 In Progress	8
① Story 4.7: Validate the services functionality of the RooKart application. RooKart #72 In Progress	8
① Story 4.8: Validate the DB functionality for the RooKart application. RooKart #73 In Progress	8
① Epic4.2: RooKart Product & Services RooKart #74 In Progress	30
① Story 4.9: Re-design the UI screens for Products page. RooKart #75 In Progress	8
① Story 4.10: Re-design the UI screens for Services functionality. RooKart #76 In Progress	8
① Story 4.11: Integrate the RooKart Products & Services functionality. RooKart #77 In Progress	5
① Story 4.12: Validate the end-to-end application of RooKart. RooKart #78 In Progress	8
① Epic 4.3: Redesigning the RooKart application. RooKart #79 In Progress	8

7. RooKart Project Implementation:

Increment 1:

- Plan the increments to create RooKart Application.
- Finalize & document revised project plan.
- Setup the required tools android studio, zenhub and Github, visio for each of the team members.
- Document the revised project plan.
- Design Wireframes & Mockups.
- Create Architecture diagram.
- Design Sequence & Class diagram.
- Develop the Login, Registration & basic home screen
- Deploy the RooKart Android app to a mobile device
- Validate the Rookart App for basic functionalities - Login, Register & Home screens.
- Create a wiki page and project report for increment 1.

Increment 2:

- Validate & authenticate the users during registration.
- Setup local databases for the application.
- Implement the functionality for the user to add products that they want to sell.
- Implement the browse functionality for buying the products using search/view options.
- Validate the product buy, sell and browse functionalities.

Increment 3:

- Implement the functionality to communicate with other users for selling the product over messages/ call through the application.
- Functionality for the user for posting classified ads and services they wish to offer along with description and pricing specifications.
- Validate the user communication functionality.
- Validate the RooKart services functionality.

Increment 4:

- Enhancements for the application using externally available API's.
- Refine the GUI for RooKart buy/sell & service functionalities.
- Deploy and validate the entire RooKart Application.

8.1 Increment plan:

The screenshot shows the GitHub 'Milestones' page for the 'ASE-Team16 / RooKart' repository. It lists four increments:

- Increment 1**: Past due by 2 months. Last updated about 1 month ago. Includes three parts: Revised Project Pr... (more). Progress: 100% complete, 0 open, 13 closed.
- Increment 2**: Past due by about 1 month. Last updated 26 days ago. Increment 2: Validate & authenticate the users during registration... (more). Progress: 100% complete, 0 open, 26 closed.
- Increment 3**: Past due by 25 days. Last updated about 14 hours ago. Increment 3: Implement the functionality to communicate with othe... (more). Progress: 100% complete, 0 open, 22 closed.
- Increment 4**: Due by December 6, 2016. Last updated 3 minutes ago. Increment 4: Enhancements for the application using externally av... (more). Progress: 100% complete, 0 open, 17 closed.

8.2 Velocity of the Increments:

The screenshot shows the GitHub 'Reports' page for the 'ASE-Team16 / RooKart' repository, specifically the 'Velocity tracking' section. It displays a bar chart of Story Points for four increments:

Milestone	Start Date	End Date	Duration	Story points
Increment 4	Nov 17, 2016	Dec 4, 2016	17 days	192 of 192 completed
Increment 3	Oct 4, 2016	Nov 10, 2016	37 days	204 of 204 completed
Increment 2	Sep 1, 2016	Oct 14, 2016	43 days	235 of 235 completed
Increment 1	Sep 1, 2016	Sep 23, 2016	22 days	70 of 70 completed

8.3 Summary report:

Increment	No. of Stories	Total no. of	Start date	End date
Increment 1	17	70	1-Sep-16	23-Sep-
Increment 2	22	23	24-Sep-	14-Oct-
Increment 3	26	20	15-Oct-	16-Nov-
Increment 4	13	19	17-Nov-	5-Dec-16

8.4 User Manual:

1.0 Introduction:

To make the process of Buying and Selling Products and Services is not always hassle-free.

Making transactions with in the college community feels secure than purchasing from unknown parties.

Thus, we decided to make Students and Staff community use the Services and Products provided by the members of Campus community, so we developed Rookart.

RooKart is a UMKC community based e-commerce mobile application which empowers Students and Staff members bearing a valid registered UMKC Email id, to Sell or Buy Products, Offer Services, Post Classified Advertisements, Offer Deals on Demand etc.

As all the transactions and Product and Services are exchanged in between the University related community High Reliability, Easy Shipping and Quality services are guaranteed.

How to use the system:

Login into RooKart, if you are a First-time user, Please Register by Clicking on the Register button on the Landing Page of the APP.

Post registration, User Enters his credentials which are User ID, Password and click on Login.

Post Login, the Home page is displayed where recently posted classifieds are displayed.

On the Menu bar on the left-hand side, there are Sell a Product, buy a Product, Post a service, Pick a Service functions.

User Selects any one of the Functionalities at a time.

If User picks on Sell a Product, User is taken to the Sell a product home page, where user enters the Description of the product, Price and Selects the location of the Product by clicking on the Use current location, or user can select a avocation on the map by clicking on Select the location from map button, which takes the user to the real time MAPS, from which user can select a location by taping on the location he chooses to enter.

Then location is auto populated, user now clicks on "Post the Product" to post the product available for sale on RooKart.

To Buy a Product: User Clicks on Buy a Product, then Enters the location radius in the search query. Depending upon the value entered Search results are populated on the users screen with the products available for sale in the location entered by the user. User selects a product he wishes to buy, by clicking on the product, a correspondence window pop us asking user to select one of the user's emails to send email to the sellers with the Subject and Body populated with the data of the selected product.

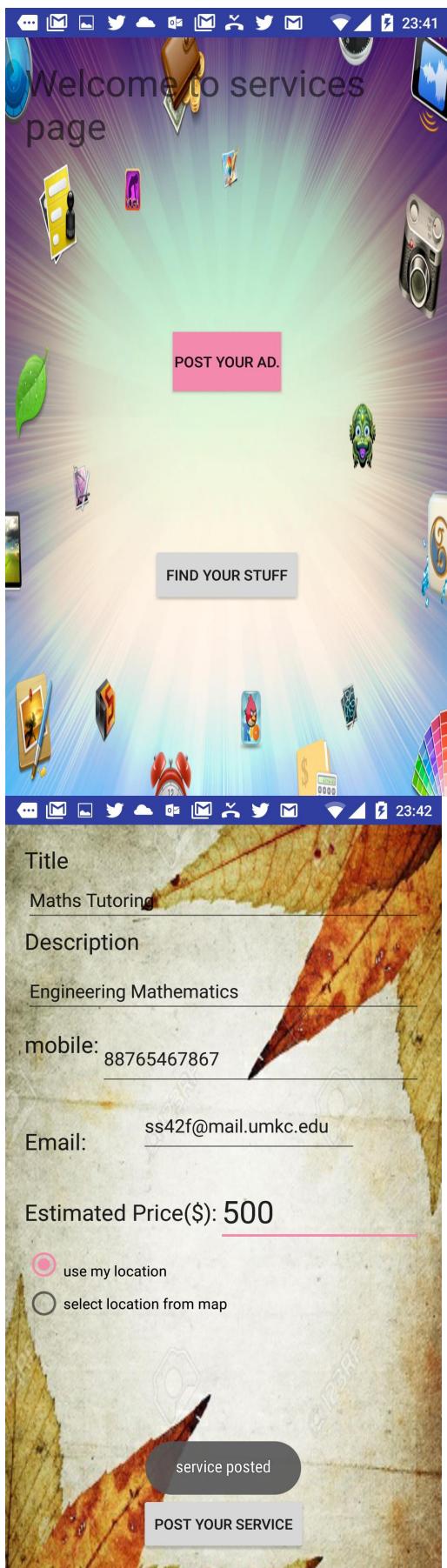
User then sends the mail to the seller; thus, user can communicate further with sell regarding the product.

Error recognition:

Invalid email recognized. User is supposed to enter Valid UMKC email id.



Sample Interaction: This is how user post a Ad regarding the service he offers, Add posted succesfully in the below screen.



9. Bibliography:

Youtube URL: Please find the Rookart Application Video on Youtube.
<https://www.youtube.com/watch?v=EHzLHgLft5M&feature=youtu.be>

Please find the Project Source code and Documentation on Github:
<https://github.com/ASE-Team16/RooKart>

Please find the PPT on Project Demo at: <https://github.com/ASE-Team16/RooKart/blob/master/Rookart%20PPT.pptx>

References:

www.Google.com
<https://stackoverflow.com/>
<https://www.mongodb.com/>
<https://developer.android.com/studio/index.html>