

**CS5551 ADVANCED SOFTWARE ENGINEERING**

**PROJECT REPORT.PHASE – 2**

**Project Title: ROOKART**

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## 1.0 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 Iteration, every emphasis will enhance the usage highlights. The present cycle is Iteration - 2/Phase – 2.

### 1.1 Phase – 2 includes

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

## 2.0 Functionalities:

### 2.1 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.

### 2.2 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.

### 2.3 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.

2.4 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.

2.5 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.

2.6 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.

2.7 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.

### 3.0 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.

### 4.0 Technologies and Tools:

I. ANDROID STUDIO

II. Front end: JavaScript

III. Programing Language: Java

IV. Creately

V: Canva

VI: Adobe Photoshop.

### 5.0 Development

#### System Design

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

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

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

IV. Home page: Consists two buttons, Products, Services.

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

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

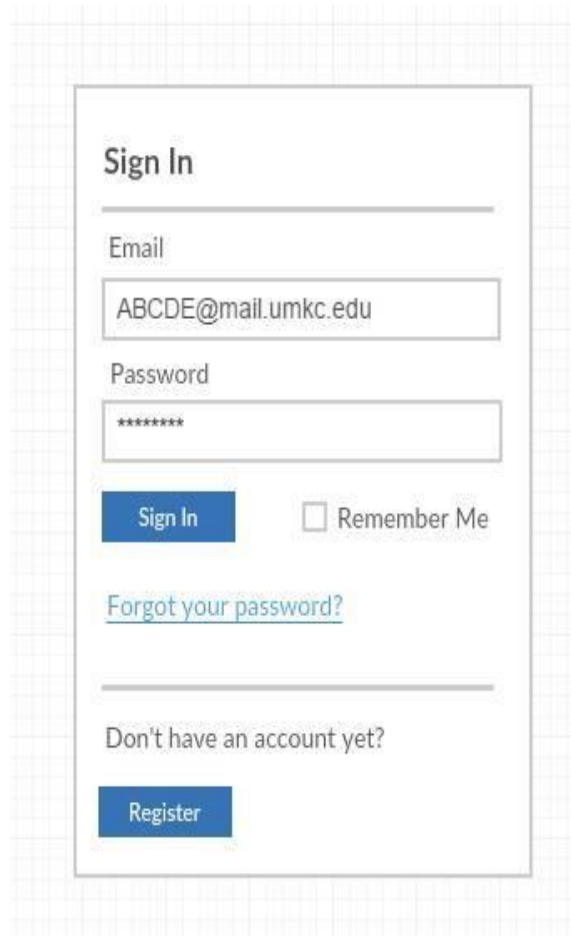
VII: Sell Page: User can post the ads related to the Products and Services they wish to offer along with the complete description, Location Details, Images etc.

### Wire Frames

#### 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.



A wireframe of a login page centered on a light gray grid background. The login form is a white rectangle with a thin gray border. At the top left of the form is the title "Sign In" in bold. Below it is a horizontal line. The form contains two input fields: "Email" with the placeholder text "ABCDE@mail.umkc.edu" and "Password" with placeholder text "\*\*\*\*\*". To the right of the password field is a checkbox labeled "Remember Me". Below these fields is a blue button labeled "Sign In". Underneath the button is a blue hyperlink "Forgot your password?". A horizontal line separates this section from the registration section below. The registration section starts with the text "Don't have an account yet?" followed by a blue button labeled "Register".

Sign In

---

Email

ABCDE@mail.umkc.edu

Password

\*\*\*\*\*

☐ Remember Me

[Forgot your password?](#)

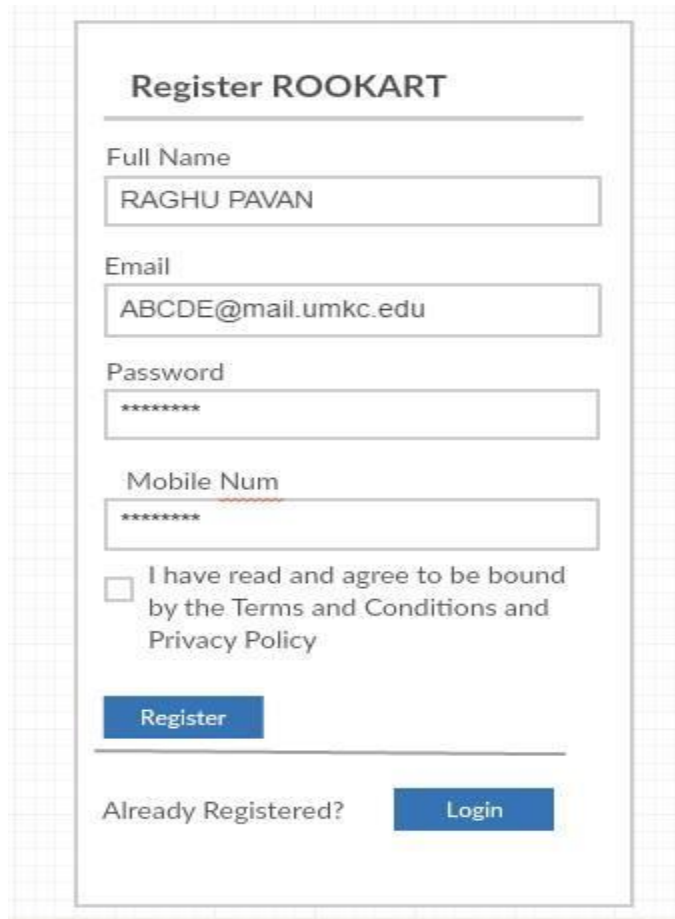
---

Don't have an account yet?

[Register](#)

## 7.2 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.



The image shows a registration form titled "Register ROOKART". It contains several input fields for user information: "Full Name" (filled with "RAGHU PAVAN"), "Email" (filled with "ABCDE@mail.umkc.edu"), "Password" (filled with "\*\*\*\*\*"), and "Mobile Num" (filled with "\*\*\*\*\*"). Below these fields is a checkbox labeled "I have read and agree to be bound by the Terms and Conditions and Privacy Policy", which is currently unchecked. At the bottom of the form is a blue "Register" button. Below the form, there is a link "Already Registered?" and a blue "Login" button.

**Register ROOKART**

Full Name  
RAGHU PAVAN

Email  
ABCDE@mail.umkc.edu

Password  
\*\*\*\*\*

Mobile Num  
\*\*\*\*\*

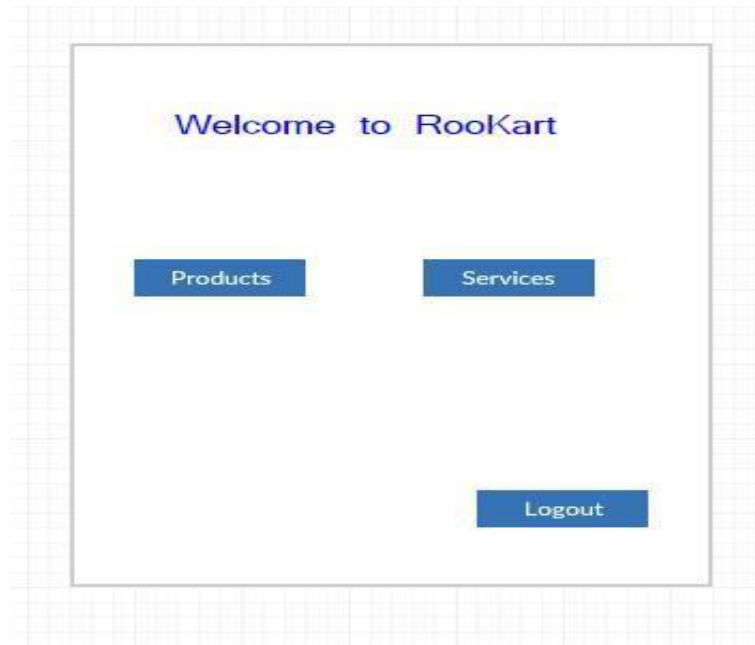
☐ I have read and agree to be bound by the Terms and Conditions and Privacy Policy

**Register**

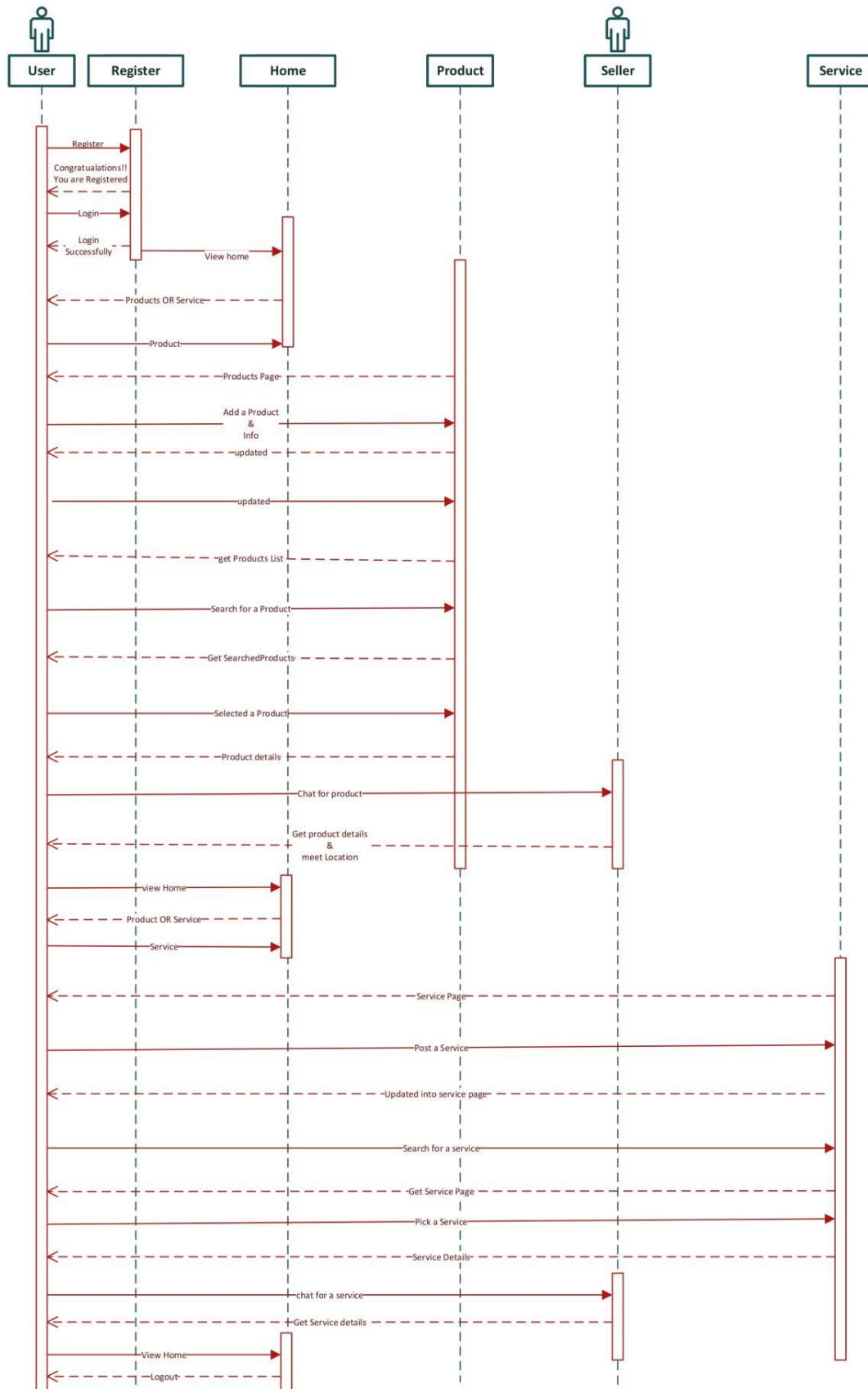
Already Registered? **Login**

### 6.3 Home Page

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



### 7.0 Sequence Diagram of the application:





## 8.0 Class Diagram:

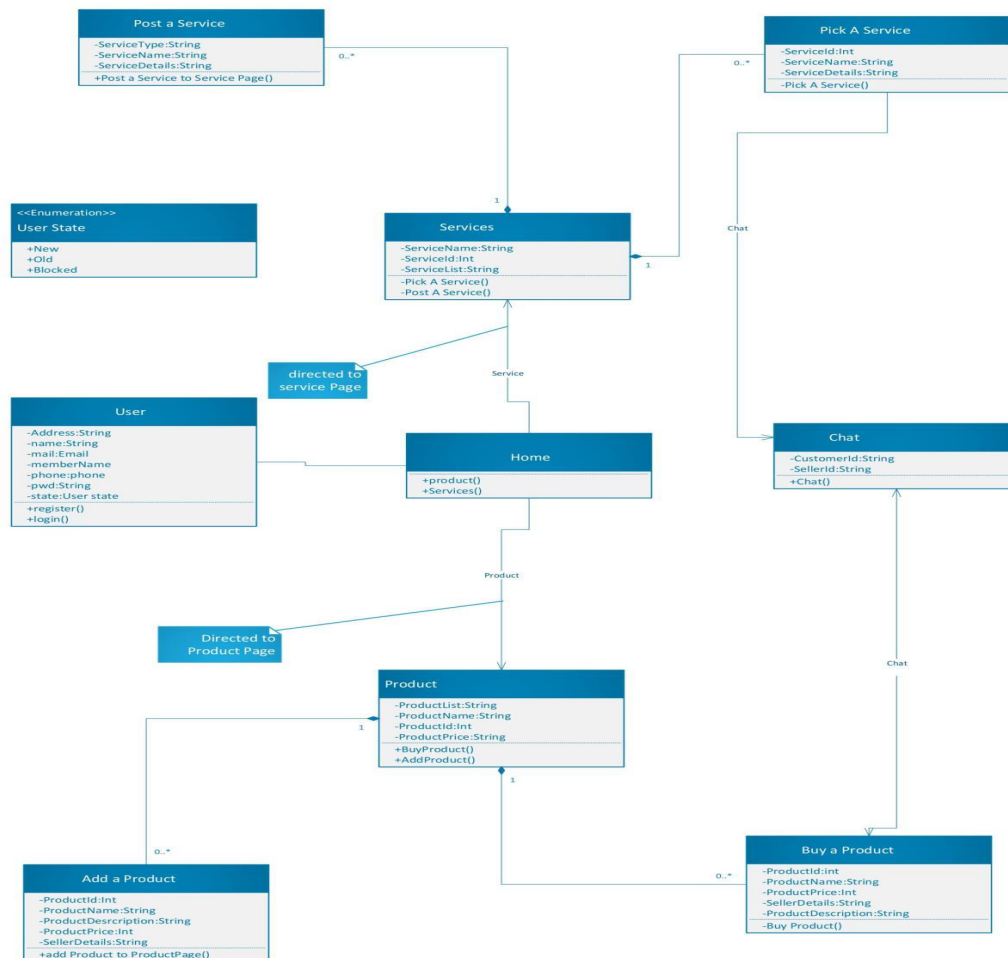
The class graph underneath portrays the stream of the framework and process.

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 Authcation work and diverts the client to Home Page.

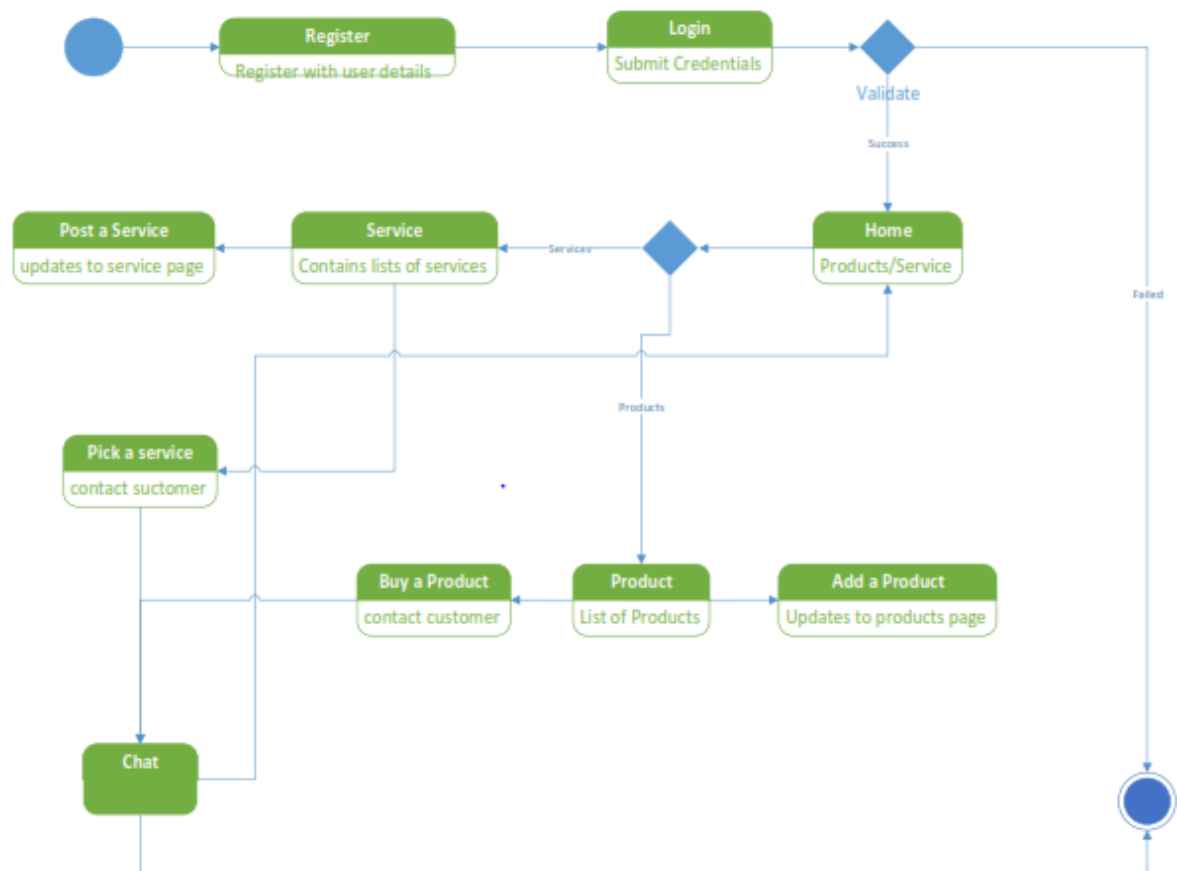
On the Home Page, two functionalities are Provided which are Products and

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.

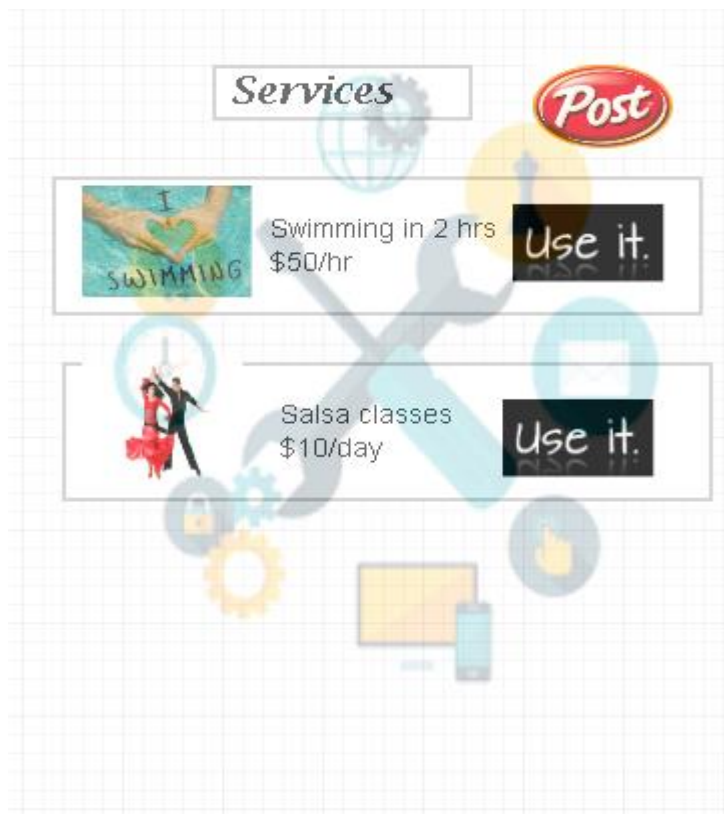


## 9.0 State Diagram



## 10.0 Mock Ups

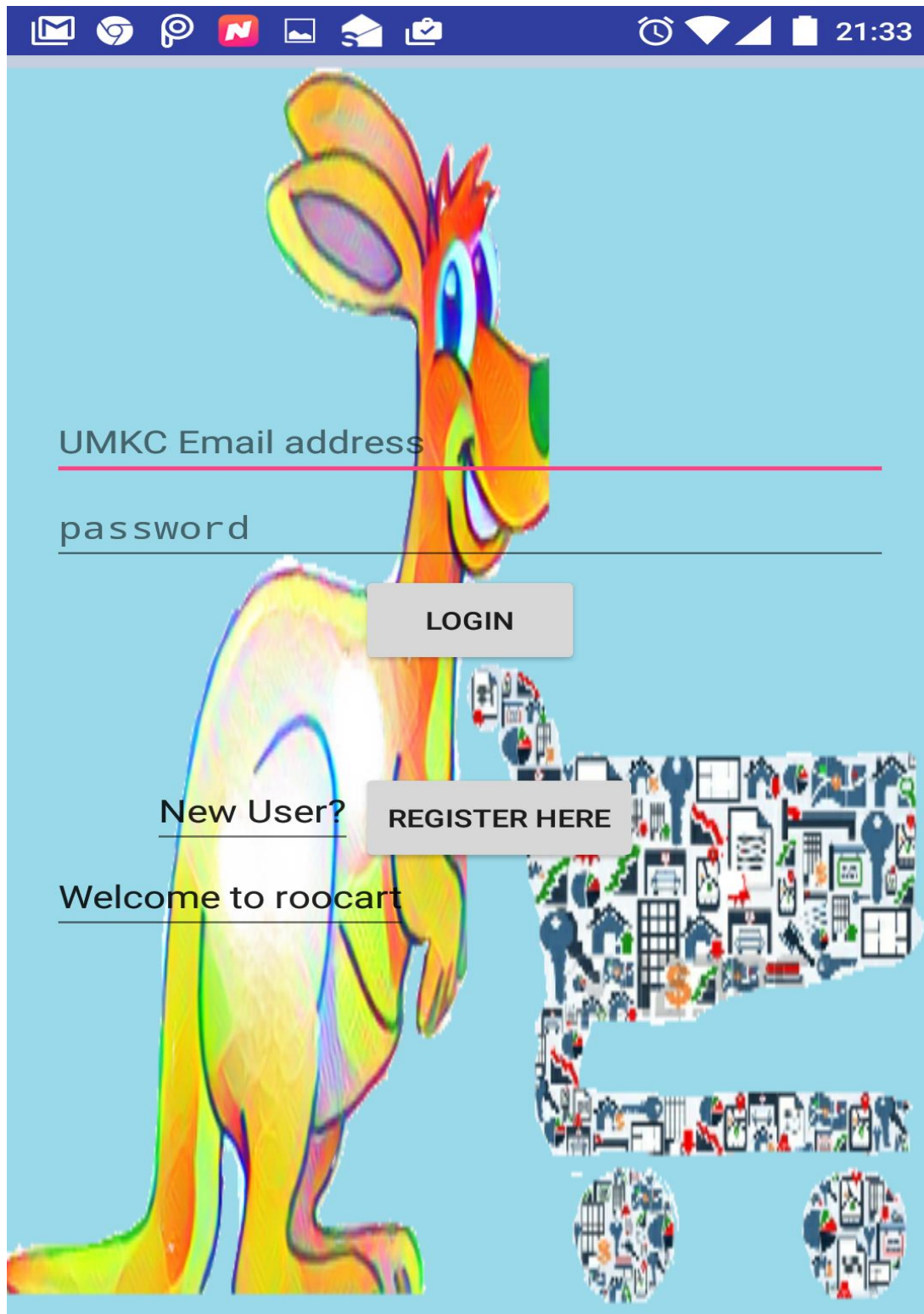




Initially Designed Mock ups.

## 11. 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☺

,

.







thjj

...

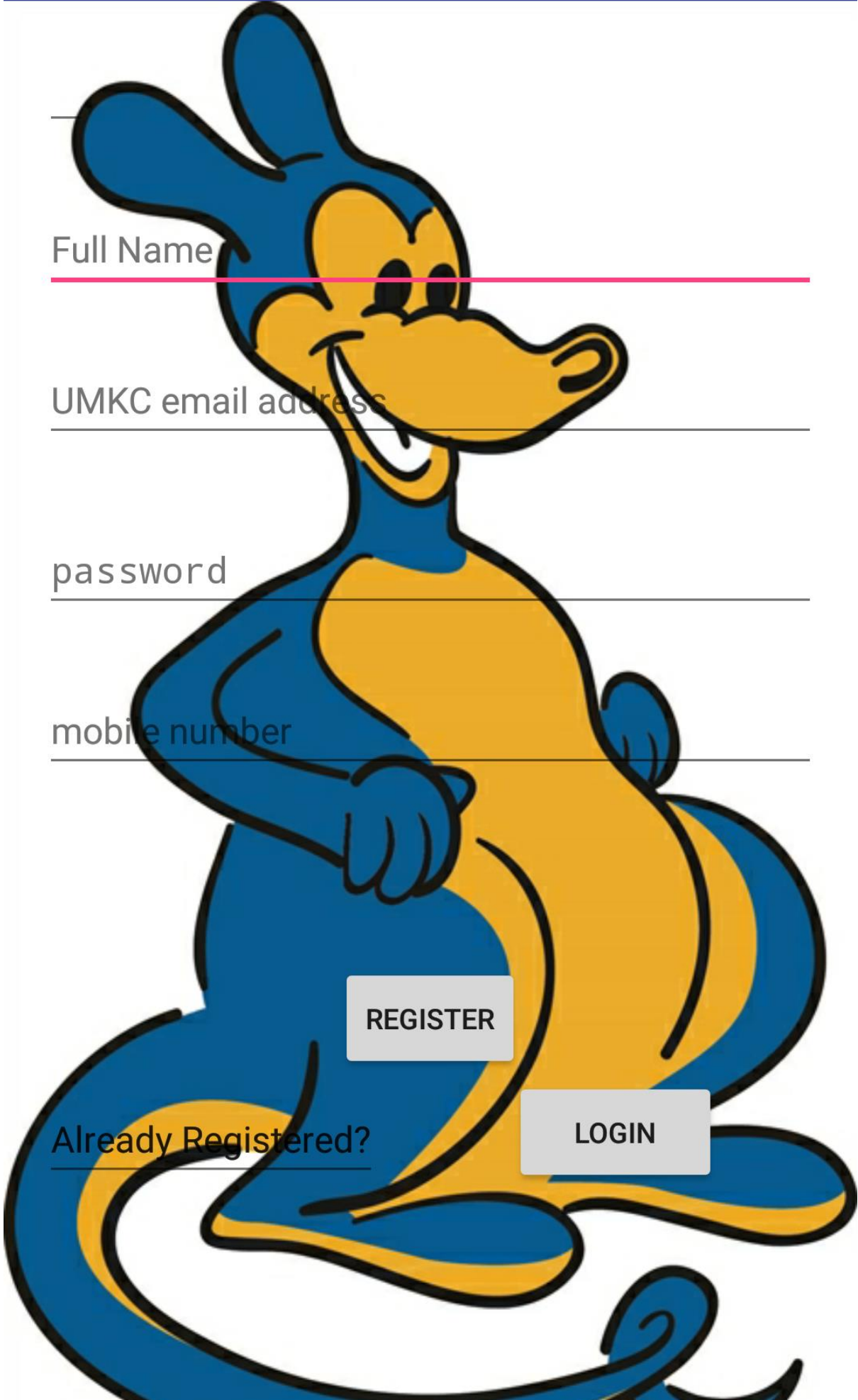
LOGIN

New User?

REGISTER HERE

Welcome to roocart

Please Enter Correct Credentials



Full Name

UMKC email address

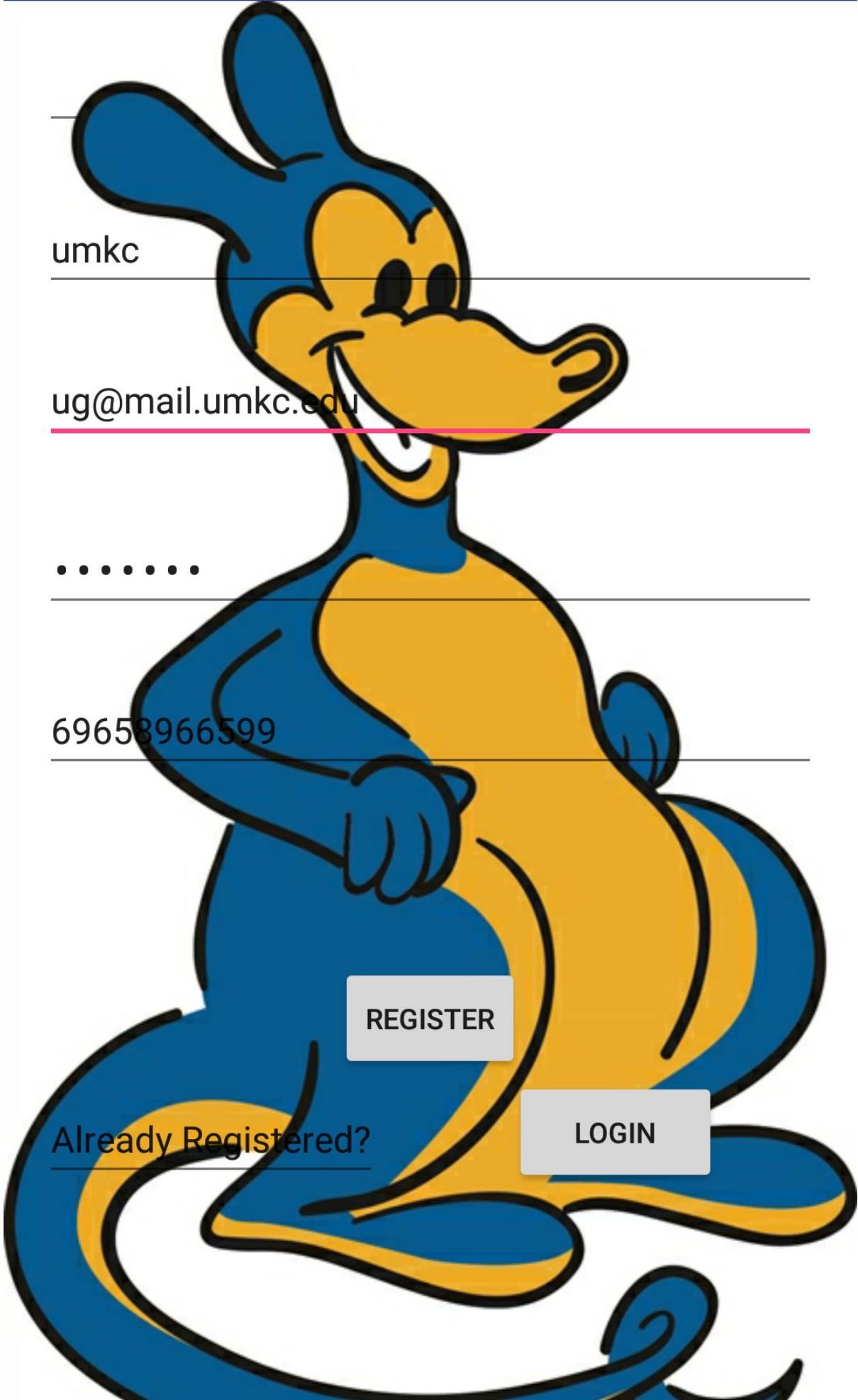
password

mobile number

REGISTER

Already Registered?

LOGIN



umkc

ug@mail.umkc.edu

.....

69658966599

REGISTER

LOGIN

Already Registered?





18:25



# ROO KART

## Products & Services



Home

Products

Services



18:25

# RooKart



LISTVIEW

GOOGLE VIEW



Pineapple  
Rs. 200

BUY



18:25

# RooKart



LISTVIEW

GOOGLE VIEW



# MapApplication



TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

PRODUCT  
DESCRIPTION:

LOCATION:

Auto-fill after 10 secs

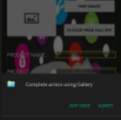
PHONE  
NUMBER:

PRICE \$:

POST ADD



# Images



Screenshot\_20161014-174148.png



17:41

268 KB

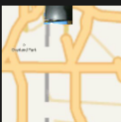


Screenshot\_20161014-174139.png



17:41

569 KB

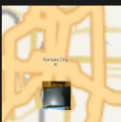


Screenshot\_20161014-174124.png



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



TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

PRODUCT



Complete action using Gallery

JUST ONCE

ALWAYS

Use a different app

Getting Coordinates



Photos



Amazon Drive



17:41

## MapApplication



TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

PRODUCT



Complete action using Gallery

JUST ONCE

ALWAYS

Use a different app

Getting Coordinates



Photos



Amazon Drive



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

# MapApplication



TAKE IMAGE

CHOOSE FROM GALLERY

PRODUCT NAME:

PRODUCT  
DESCRIPTION:

LOCATION:

Auto-fill after 10 secs

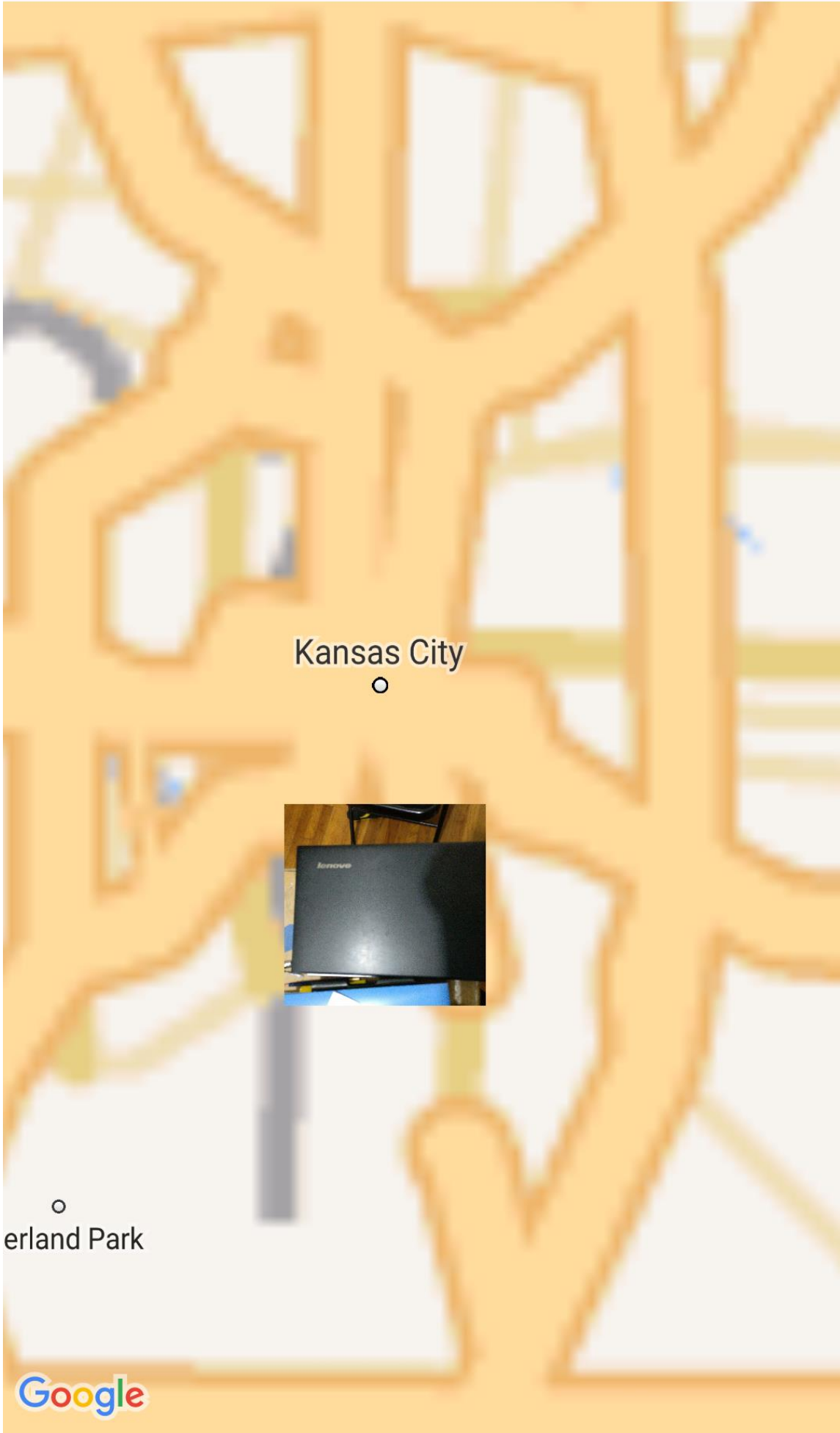
PHONE  
NUMBER:

PRICE \$:

POST ADD



17:41





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



18:25

# RooKart



LISTVIEW

GOOGLE VIEW



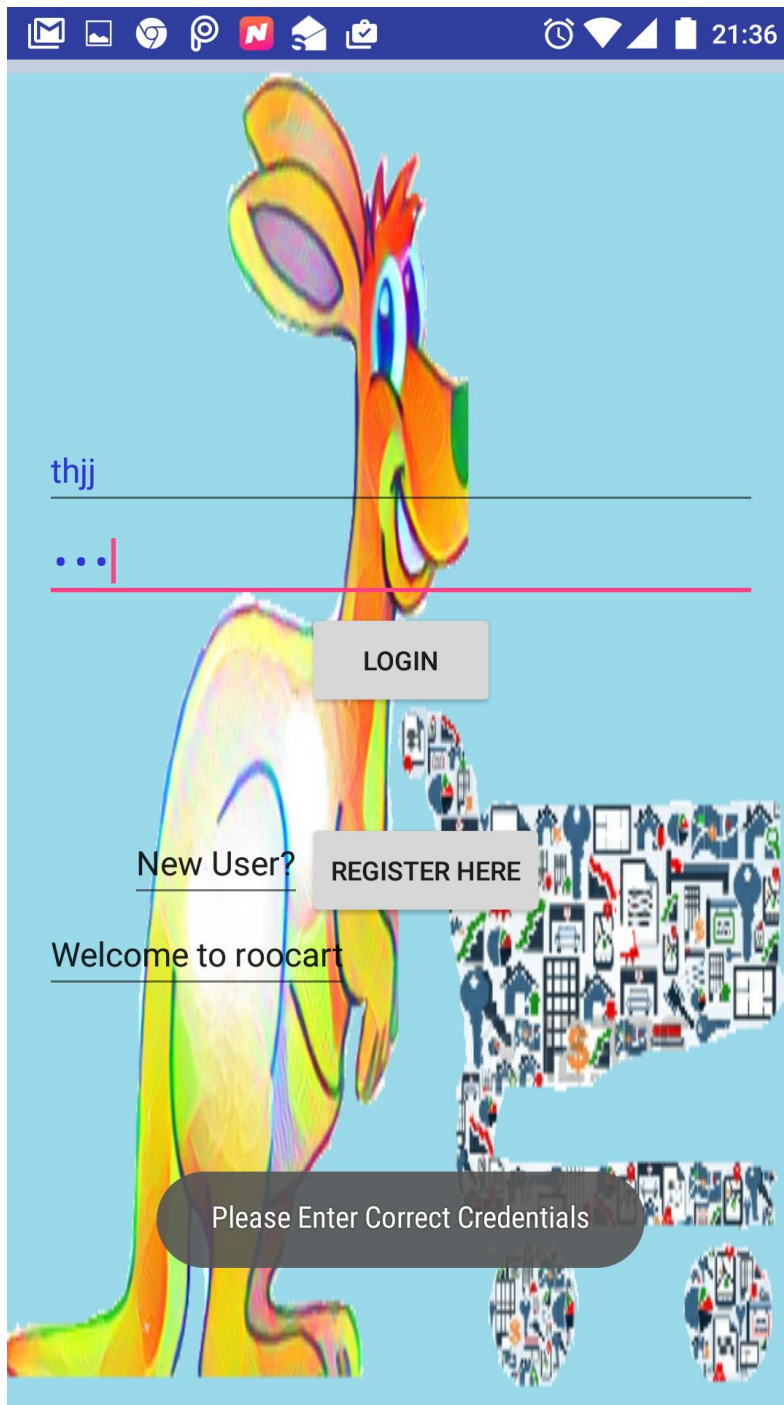
Pineapple  
Rs. 200

BUY

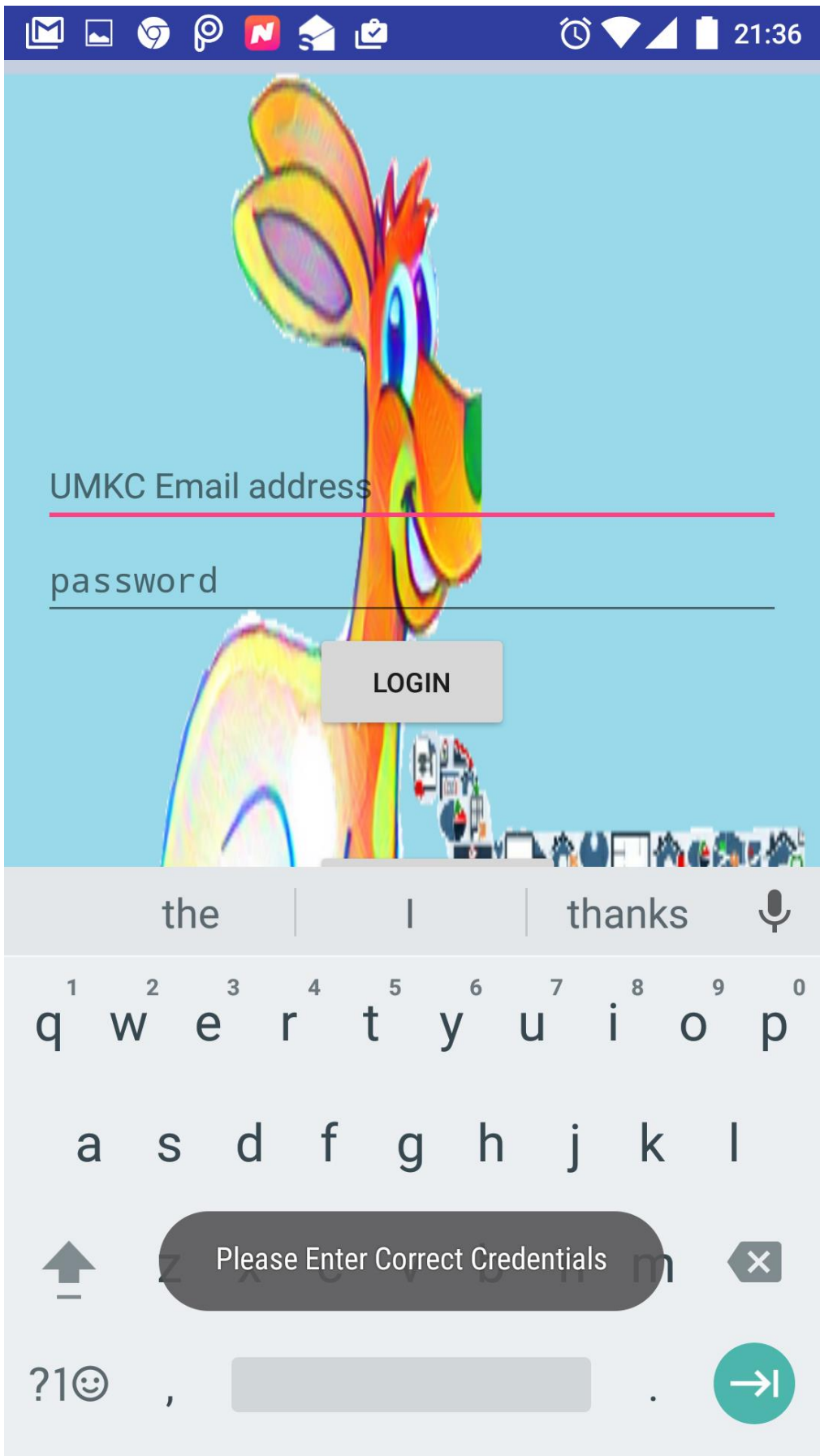


## 11. Unit Testing:

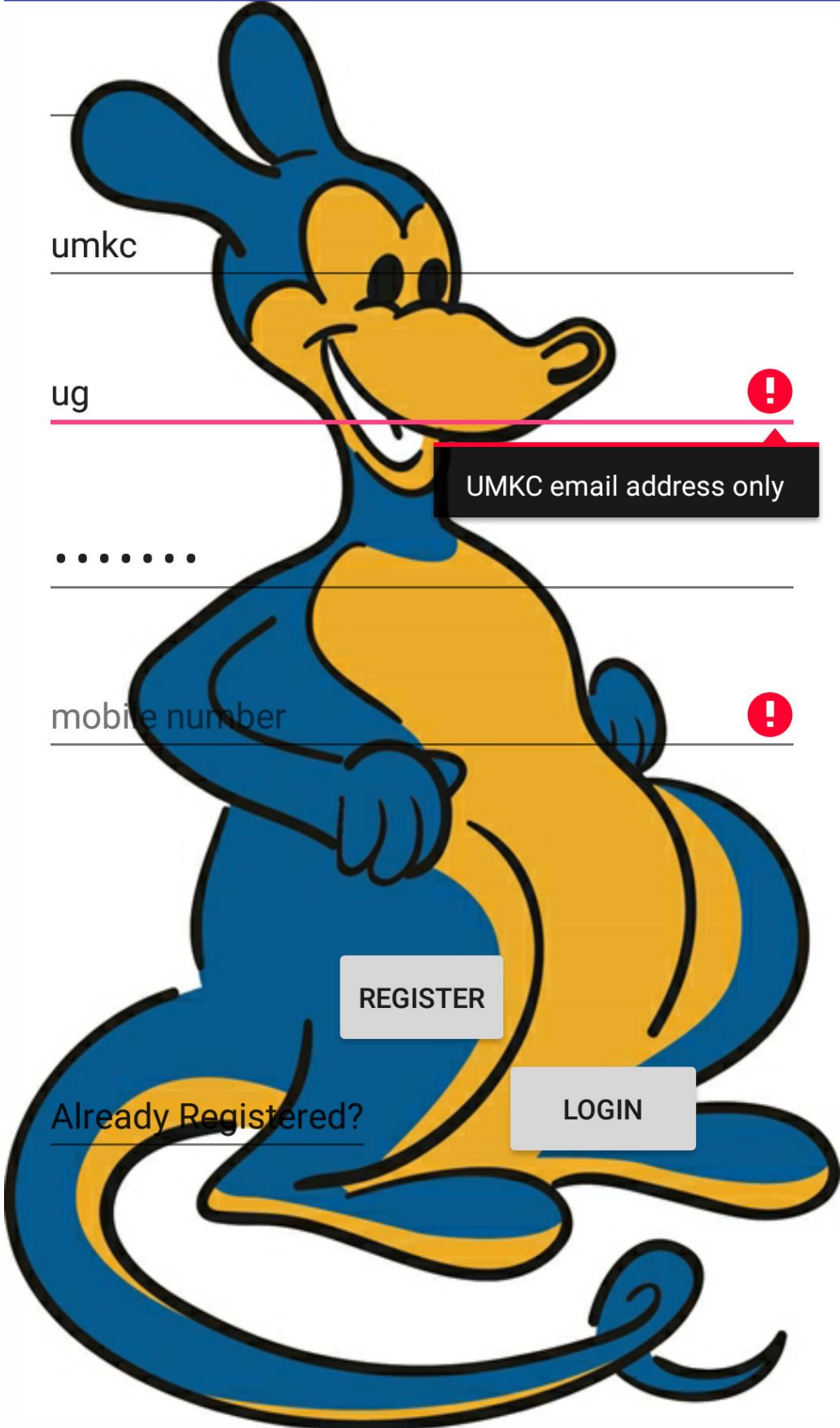
Please find the Screen shots of the validations



occurred.







umkc

ug



UMKC email address only

.....

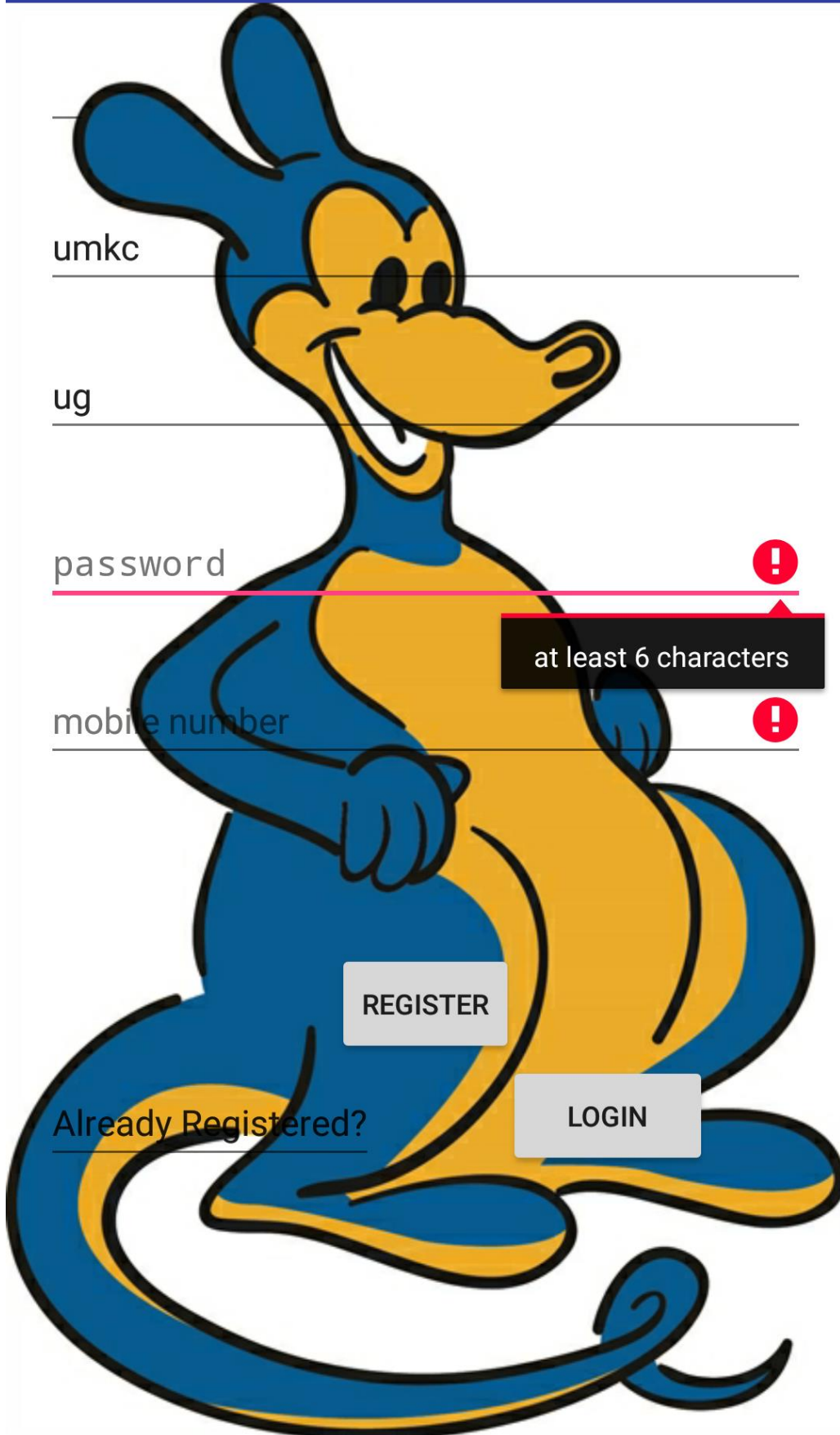
mobile number



REGISTER

LOGIN

[Already Registered?](#)



umkc

ug

password



at least 6 characters

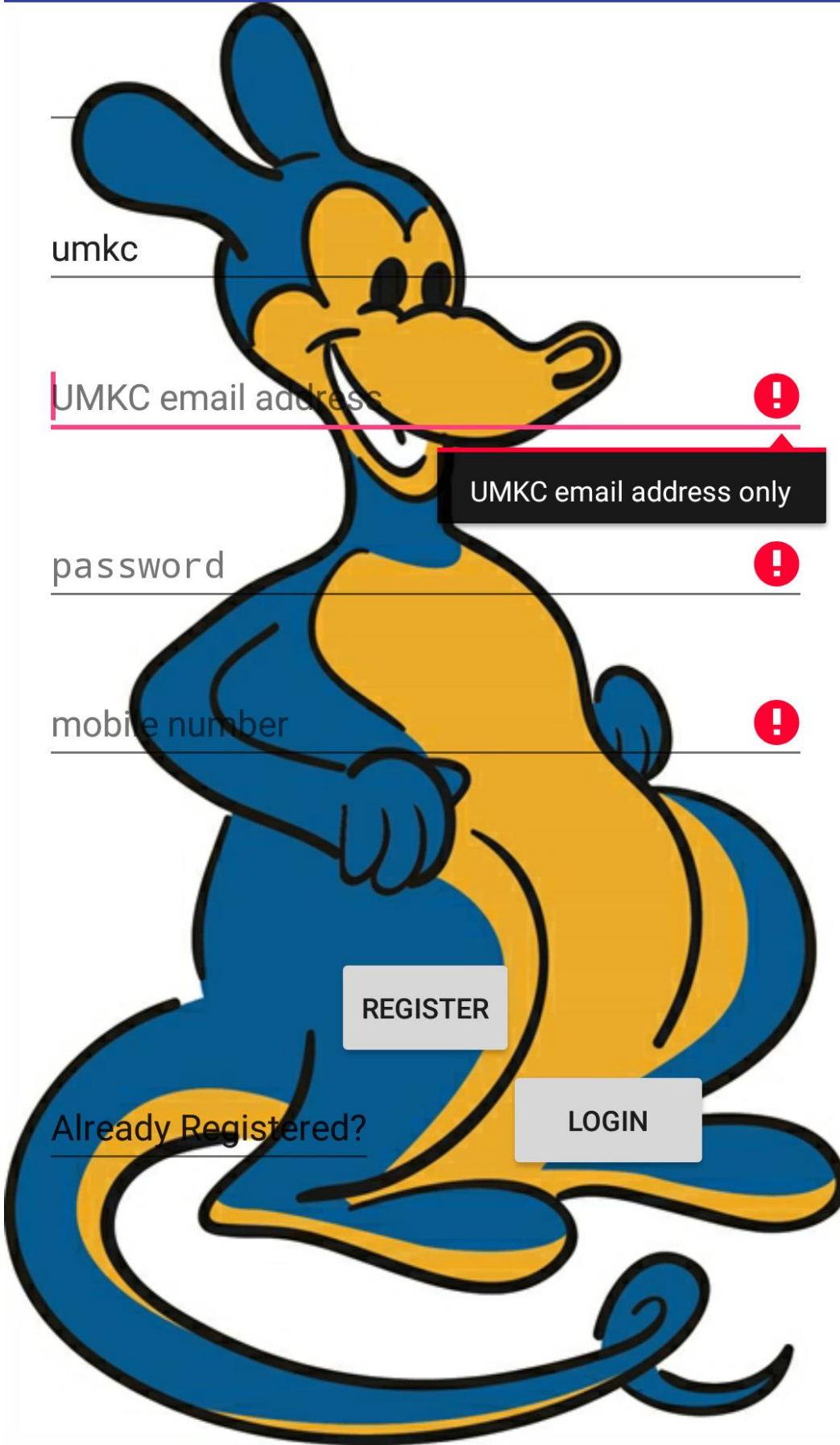
mobile number



REGISTER

LOGIN

[Already Registered?](#)



umkc

UMKC email address



UMKC email address only

password



mobile number



REGISTER

Already Registered?

LOGIN

## 13. Project Management

### RooKart Project Implementation:

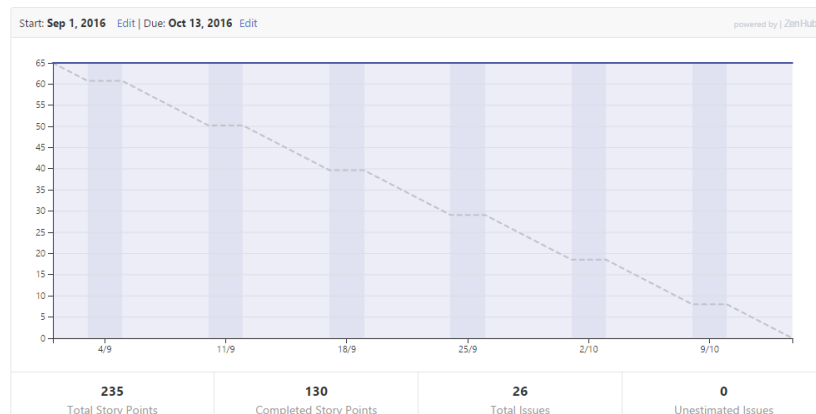
#### Increment 2:

- 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:

The screenshot shows the GitHub interface for the repository ASE-Team16/RooKart. The 'Issues' tab is selected, and a search filter is applied: 'is:open is:issue milestone:"Increment 2"'. The results show 25 open issues, all of which are user stories for Increment 2. Each issue entry includes a title, a unique ID, the time since it was opened (all 6 hours ago), the author (Lavakumar90), the assigned milestone (Increment 2), and the current status (In Progress). The issues are listed in descending order of ID.

Issue ID	Title	Author	Milestone	Status
#43	Story 2.6 - Increment 2 - Create increment report.	Lavakumar90	Increment 2	In Progress
#42	Story 2.5 - Increment 2 - Create a Wiki page.	Lavakumar90	Increment 2	In Progress
#41	Story 2.3.1 - RooKart Products - Implement the navigations from Home screen to Products screen.	Lavakumar90	Increment 2	In Progress
#40	Story 2.3.2 - RooKart Products - Implement the Products home screen layout.	Lavakumar90	Increment 2	In Progress
#39	Story 2.3.3 - RooKart Products - Implement the Products View/Browse functionality - Product details View.	Lavakumar90	Increment 2	In Progress
#38	Story 2.3.4 - RooKart Products - Implement the Products View/Browse functionality - Product google maps View.	Lavakumar90	Increment 2	In Progress
#37	Story 2.3.5 - RooKart Products - Implement the Products Sell home screen to add the product to RooKart.	Lavakumar90	Increment 2	In Progress
#36	Story 2.3.6 - RooKart Products - Implement the navigations from Products Browse/Sell Views.	Lavakumar90	Increment 2	In Progress
#35	Story 2.3.7 - RooKart Products - Handle the navigations from Products Details/Google Maps Views.	Lavakumar90	Increment 2	In Progress
#34	Story 2.3.8 - RooKart Products - Design the background layout for all the Product screens.	Lavakumar90	Increment 2	In Progress
#32	Story 2.3.10 - RooKart Products - Validate the Products Buy/Sell functionalities.	Lavakumar90	Increment 2	In Progress





📌 Increment 2		
Repository	Issues	Story Points
RooKart	🟡 #21 Epic 2.4 - Rookart - Services functionality	40
RooKart	🟡 #16 Epic 2.3: RooKart - Buy/Sell functionality	40
RooKart	🟡 #14 Epic 2.1: Validate & authenticate the users during registration.	15
RooKart	🟡 #15 Epic 2.2: Setup local databases for the application.	10
RooKart	🔴 #40 Story 2.3.2 - RooKart Products - Implement the Products home screen layout.	8
RooKart	🔴 #39 Story 2.3.3 - RooKart Products - Implement the Products View/Browse functionality - Product details View.	8
RooKart	🔴 #38 Story 2.3.4 - RooKart Products - Implement the Products View/Browse functionality - Product google maps View.	8
RooKart	🔴 #32 Story 2.3.10 - RooKart Products - Validate the Products Buy/Sell functionalities.	8
RooKart	🔴 #29 Story 2.4.3 - RooKart Services - Implement the Services View/Browse functionality - Services details View.	8
RooKart	🔴 #28 Story 2.4.4 - RooKart Services - Implement the Services View/Browse functionality - Services google maps View.	8
RooKart	🔴 #23 Story 2.4.9 - RooKart Services - Integrate the Services Buy/Sell functionalities.	8
RooKart	🔴 #22 Story 2.4.10 - RooKart Services - Validate the Services Buy/Sell functionalities.	8
RooKart	🔴 #43 Story 2.6 - Increment 2 - Create increment report.	5
RooKart	🔴 #42 Story 2.5 - Increment 2 - Create a Wiki page.	5
RooKart	🔴 #37 Story 2.3.5 - RooKart Products - Implement the Products Sell home screen to add the product to RooKart.	5
RooKart	🔴 #36 Story 2.3.6 - RooKart Products - Implement the navigations from Products Browse/Sell Views.	5
RooKart	🔴 #35 Story 2.3.7 - RooKart Products - Handle the navigations from Products Details/Google Maps Views.	5
RooKart	🔴 #34 Story 2.3.8 - RooKart Products - Design the background layout for all the Product screens.	5
RooKart	🔴 #33 Story 2.3.9 - RooKart Products - Integrate the Products Buy/Sell functionalities.	5
RooKart	🔴 #30 Story 2.4.2 - RooKart Services - Implement the Services home screen layout.	5
RooKart	🔴 #27 Story 2.4.5 - RooKart Services - Implement the Services Sell home screen to add a Service to RooKart.	5
RooKart	🔴 #26 Story 2.4.6 - RooKart Services - Implement the navigations from Services Browse/Sell Views.	5
RooKart	🔴 #25 Story 2.4.7 - RooKart Services - Handle the navigations from Services Details/Google Maps Views.	5
RooKart	🔴 #24 Story 2.4.8 - RooKart Services - Design the background layout for all the Services screens.	5
RooKart	🔴 #41 Story 2.3.1 - RooKart Products - Implement the navigations from Home screen to Products screen.	3
RooKart	🔴 #31 Story 2.4.1 - RooKart Services - Implement the navigations from Home screen to Services screen.	3

#### 14. Bibliography & References:

1. Github.com
2. Android Studio
3. Google Maps API.
5. Stackoverflow.com
6. Ebay.com
7. Quikr.com
8. Phase 1 Report Document.
9. Umkc.edu