

CS5551 ADVANCED SOFTWARE ENGINEERING

PROJECT REPORT, PHASE – 3

Project Title: ROOKART

Project Owners:

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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 - 3/Phase - 3.

1.1 Phase -3 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.

VII. MongoDB

VIII. AMAZON AWS

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.

Sign In

Email

ABCDE@mail.umkc.edu

Password

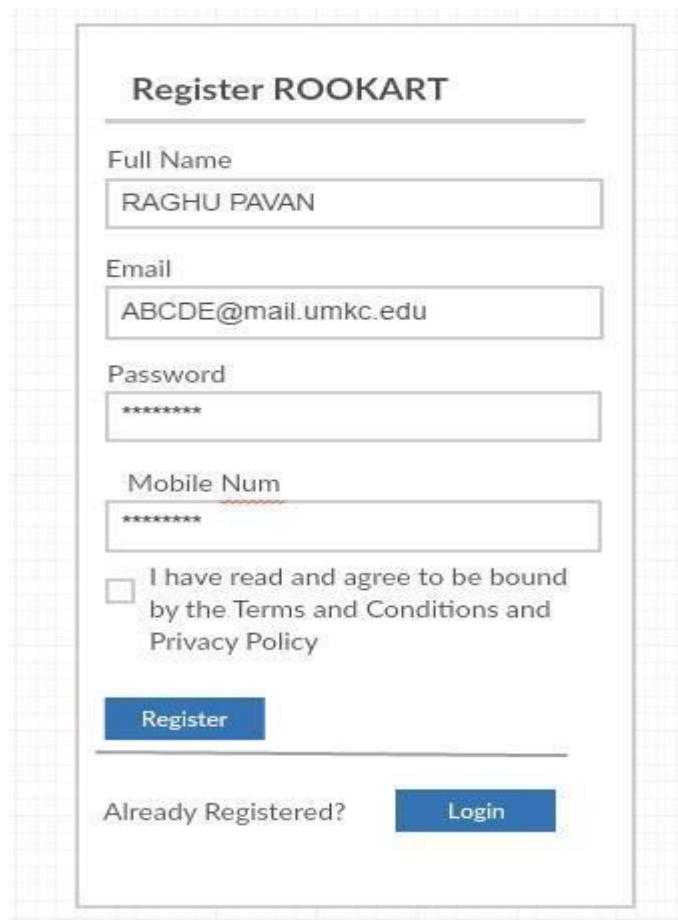
Remember Me

[Forgot your password?](#)

Don't have an account yet?

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.

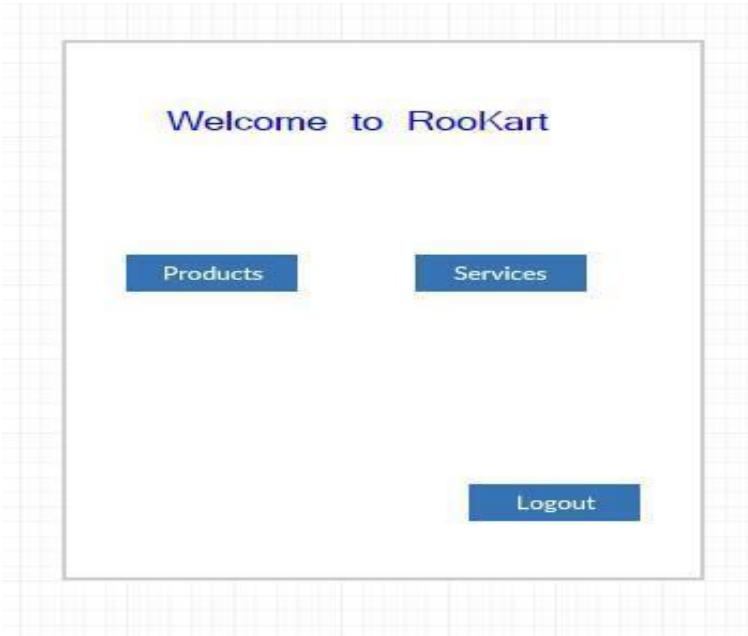


The image shows a registration form titled "Register ROOKART". The form fields include:

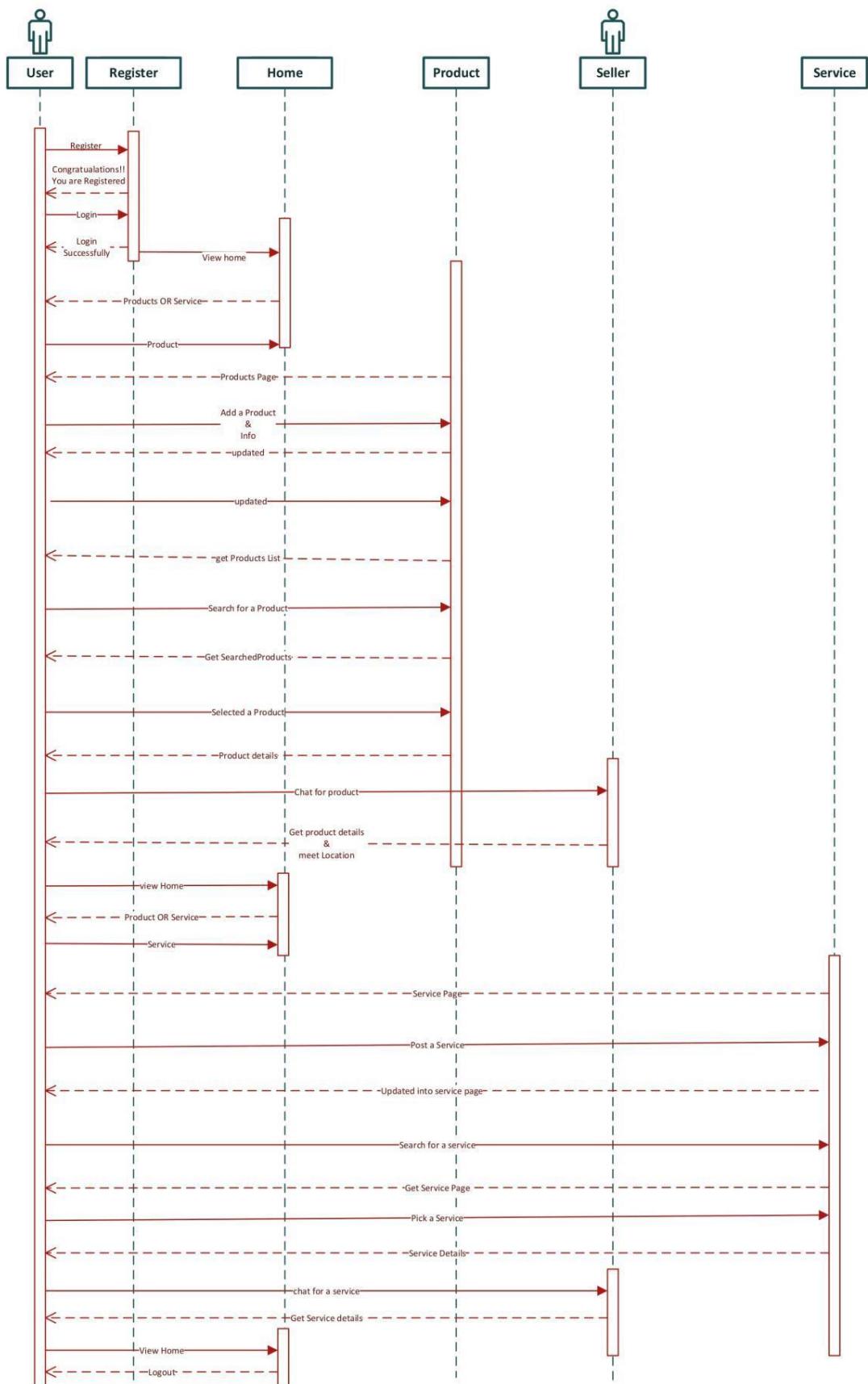
- Full Name: RAGHU PAVAN
- Email: ABCDE@mail.umkc.edu
- Password: *****
- Mobile Num: *****
- A checkbox labeled "I have read and agree to be bound by the Terms and Conditions and Privacy Policy".
- A blue "Register" button.
- Links for "Already Registered?" and "Login" at the bottom.

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:

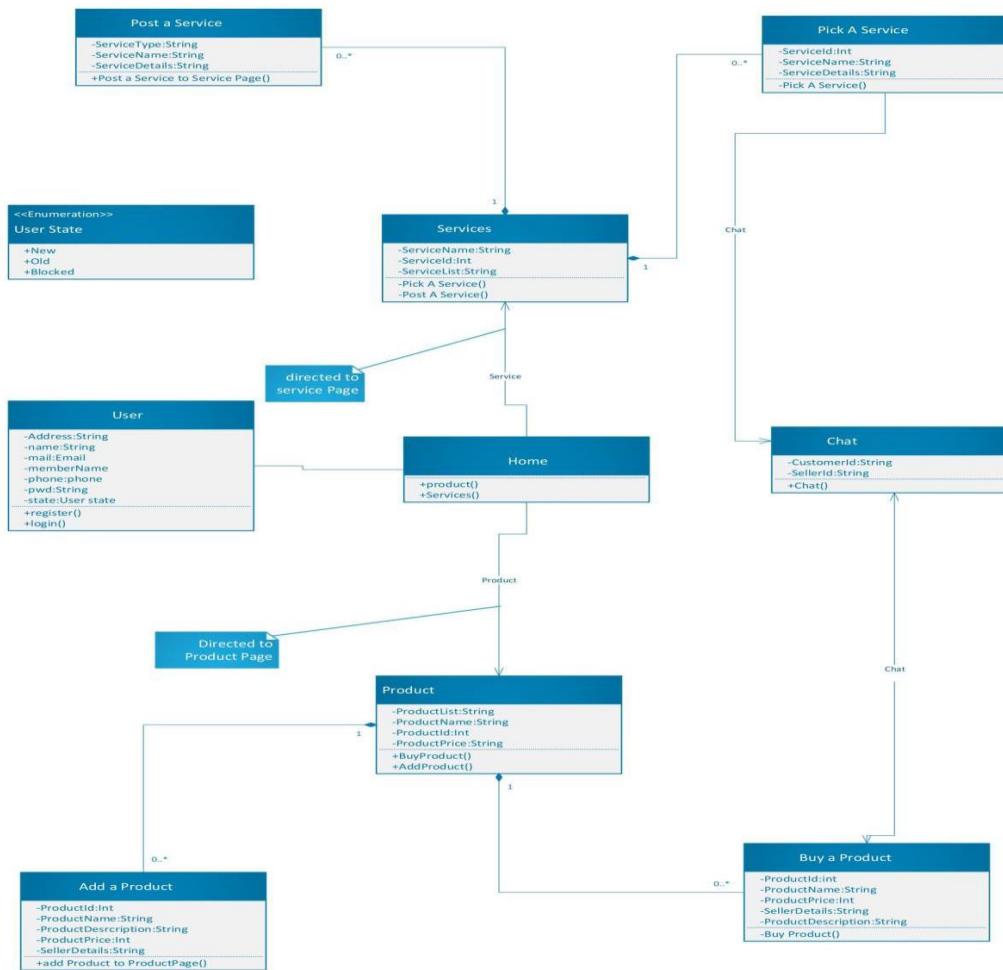
The class graph underneath portrays the stream of the framework and process.

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 Authecation work and diverts the client to Home Page.

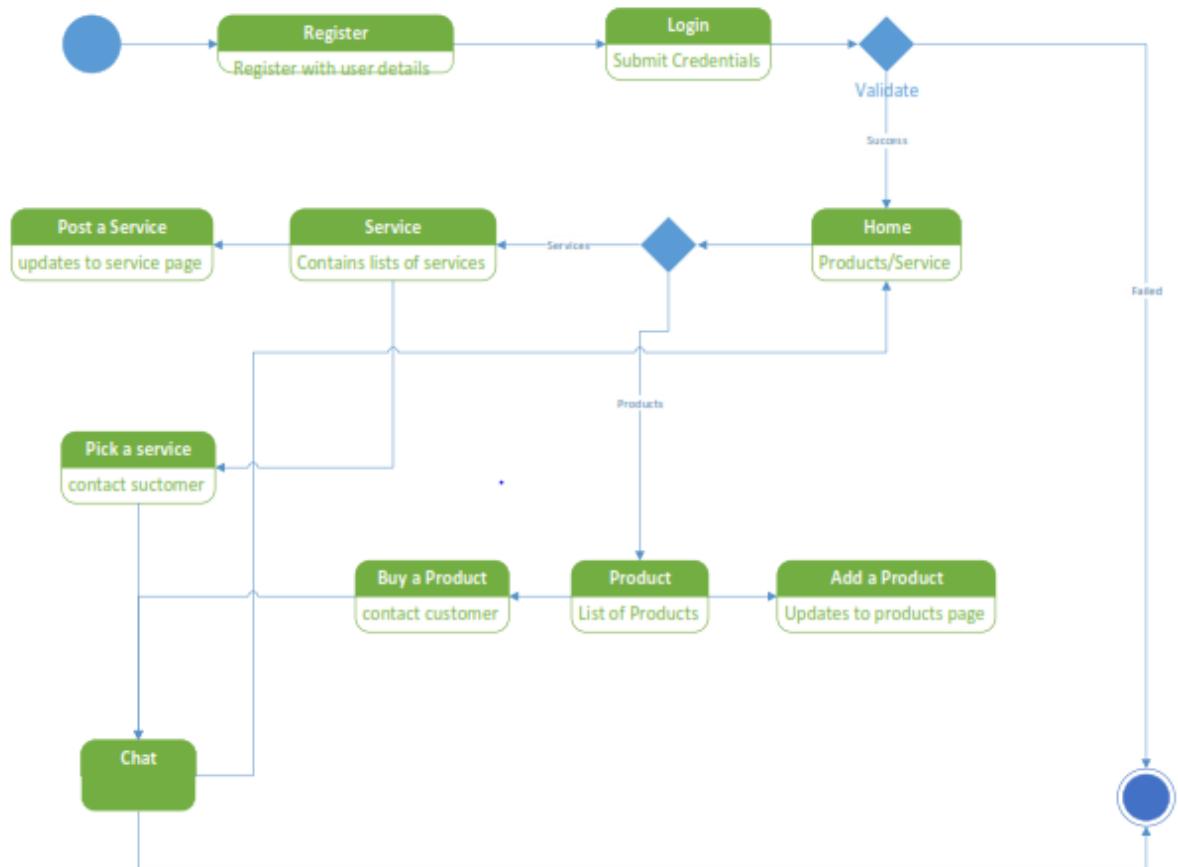
On the Home Page, two functionalities are Provided which are Products and

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.

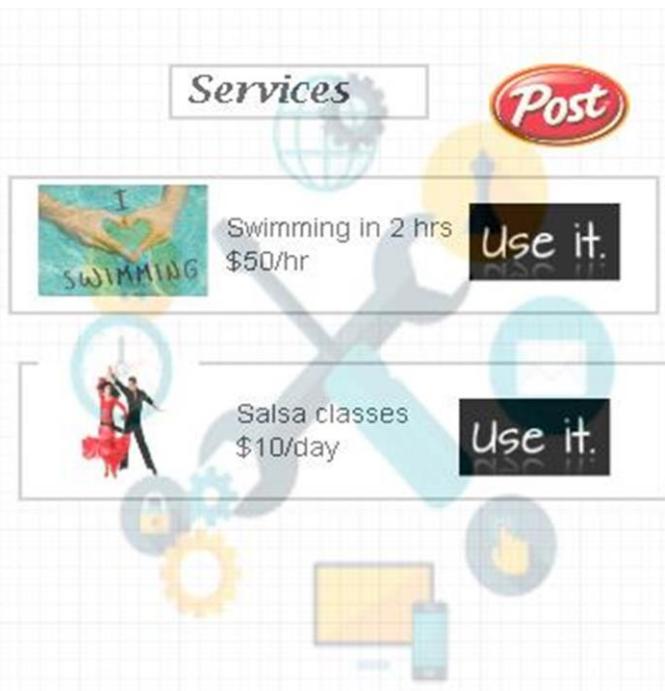


9.0 State Diagram



10.0 Mock Ups





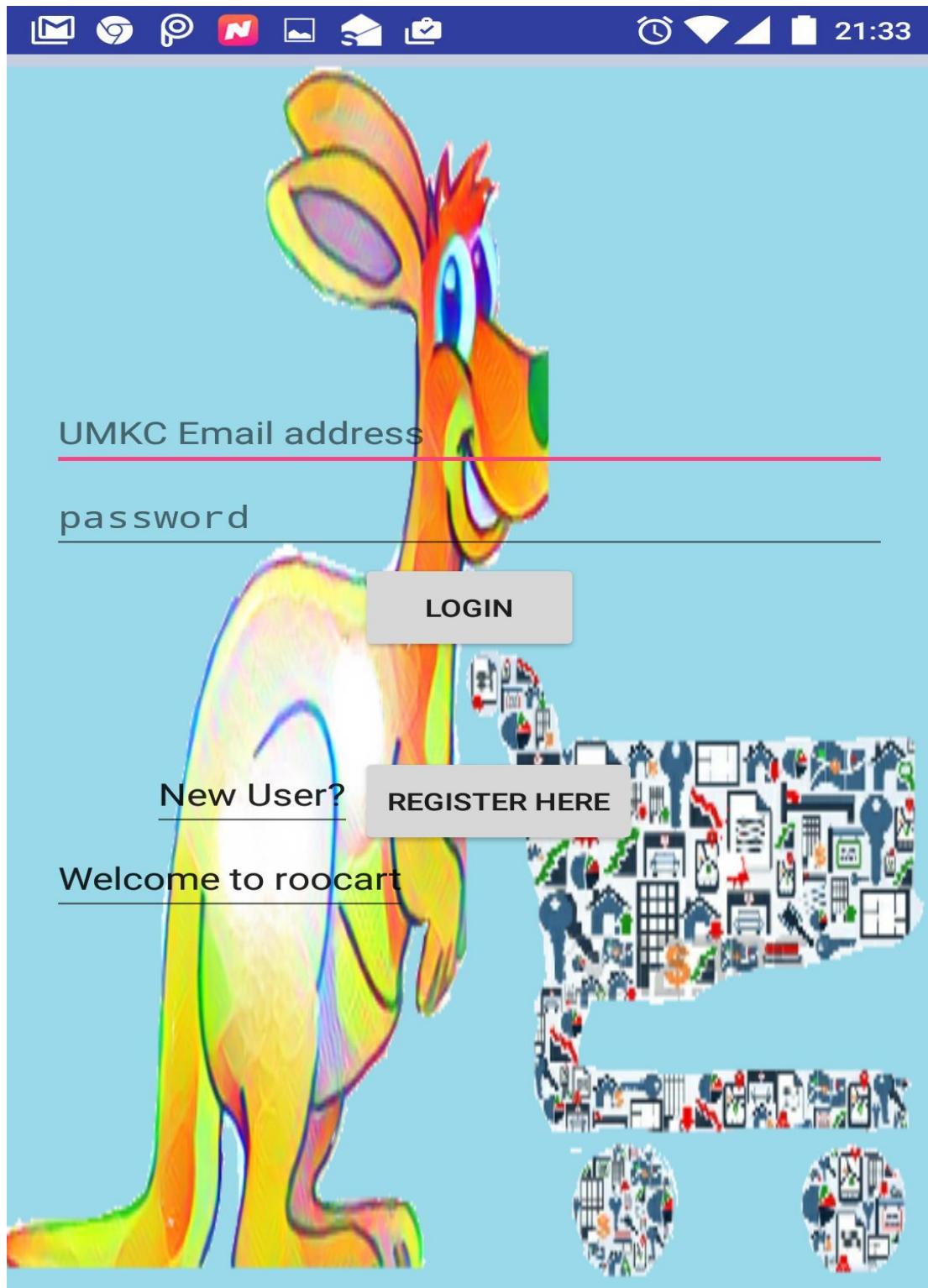
Sell Your Item !!!!



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☺ ,

.





21:36

thjj

...

LOGIN

New User?

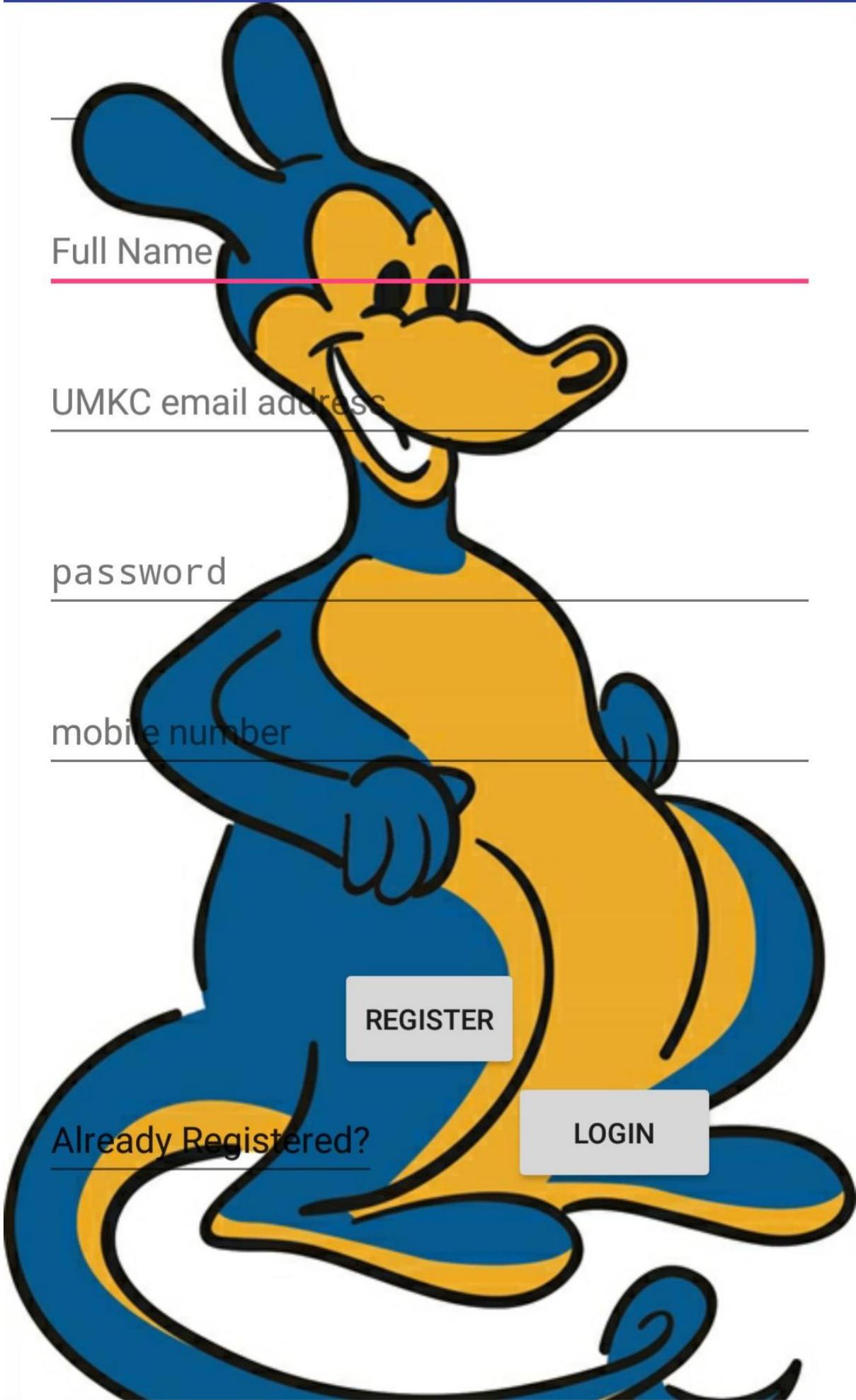
REGISTER HERE

Welcome to roocart

Please Enter Correct Credentials



21:33

A large, stylized cartoon character of a blue and yellow dog-like animal with a wide smile and a long tongue. It is positioned behind the registration form fields.

Full Name

UMKC email address

password

mobile number

REGISTER

Already Registered?

LOGIN



21:35

umkc

ug@mail.umkc.edu

69658966599

REGISTER

Already Registered?

LOGIN



⌚ ⌂ ⌂ ⌂ 18:25



ROO KART

Products & Services



Home

Products

Services



18:25

RooKart



LISTVIEW

GOOGLE VIEW



Pineapple

Rs. 200

BUY



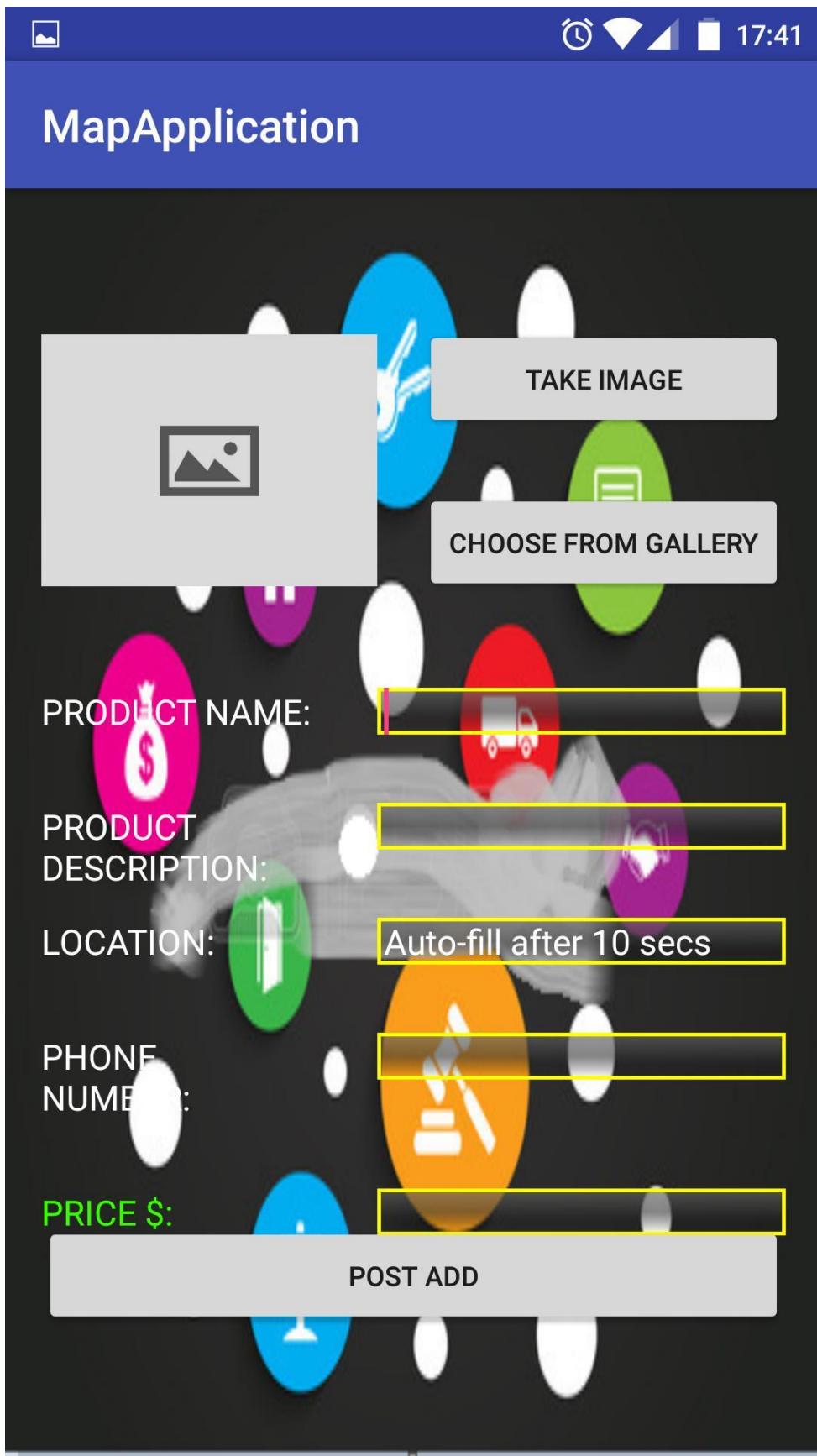
⌚ ⚡ 18:25

RooKart



LISTVIEW

GOOGLE VIEW





17:41



Images



Screenshot_20161014-174148.png



17:41

268 KB

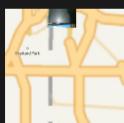


Screenshot_20161014-174139.png



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

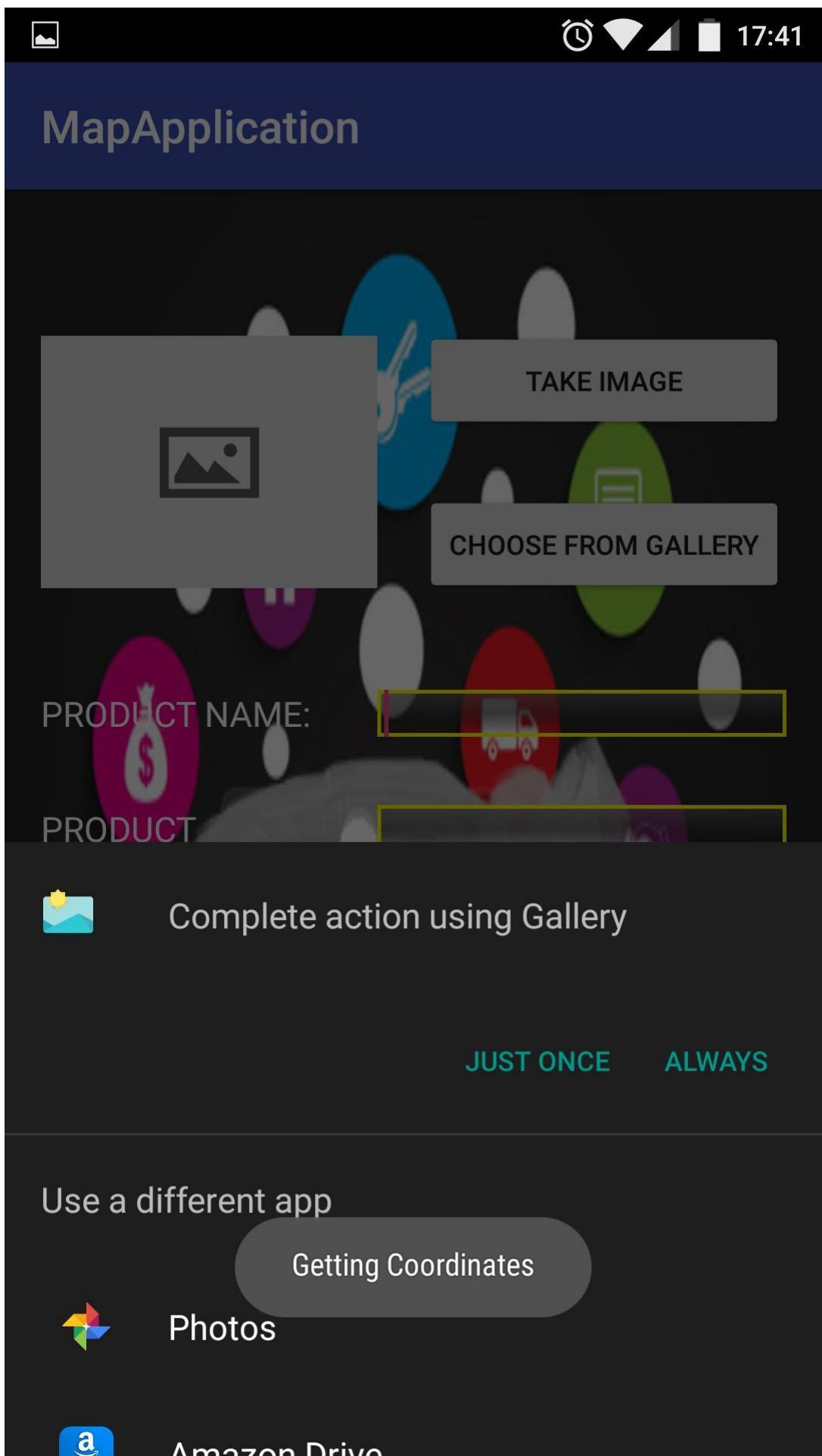


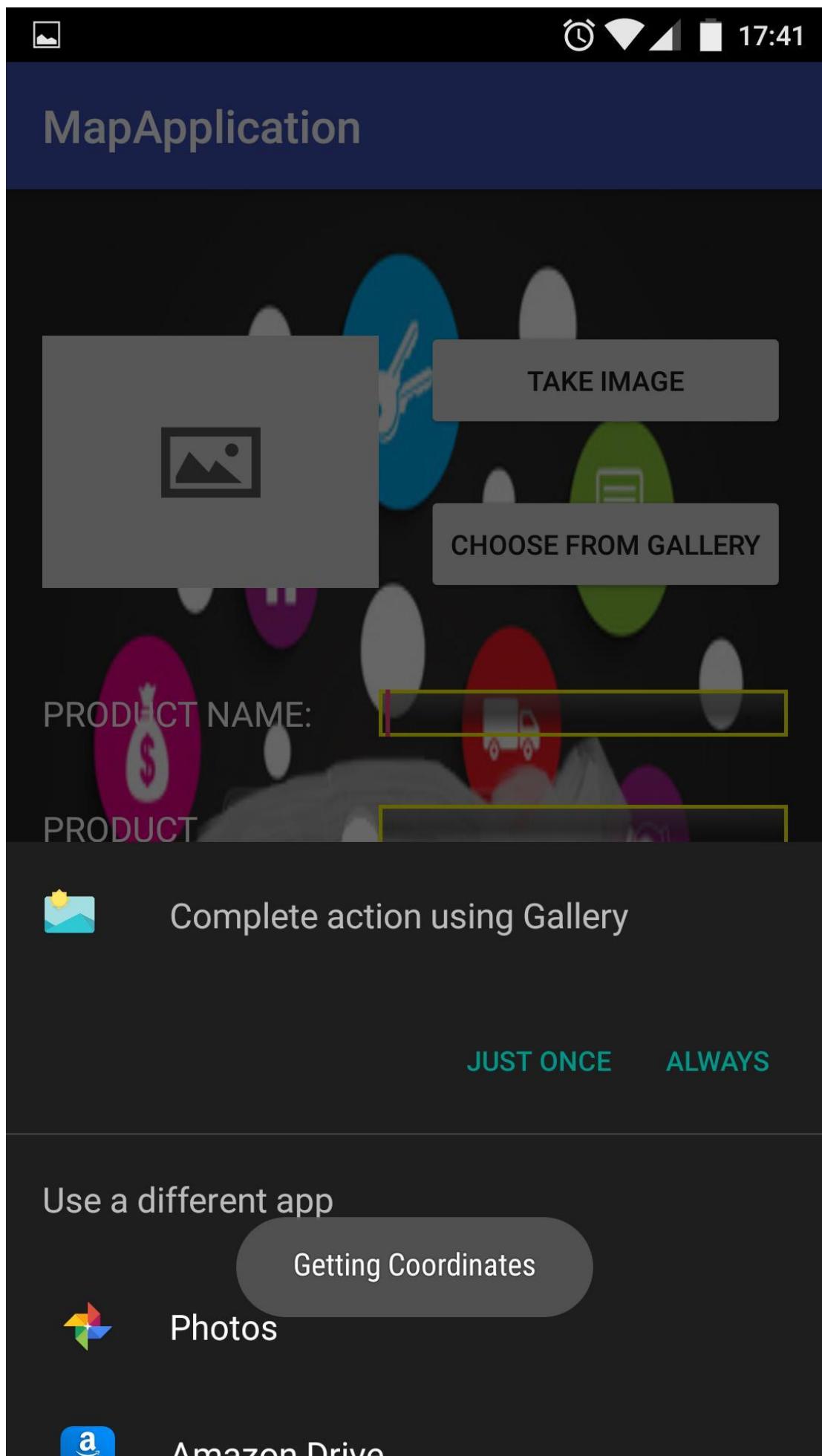
Screenshot_20161014-173744.png



17:37

255 KB

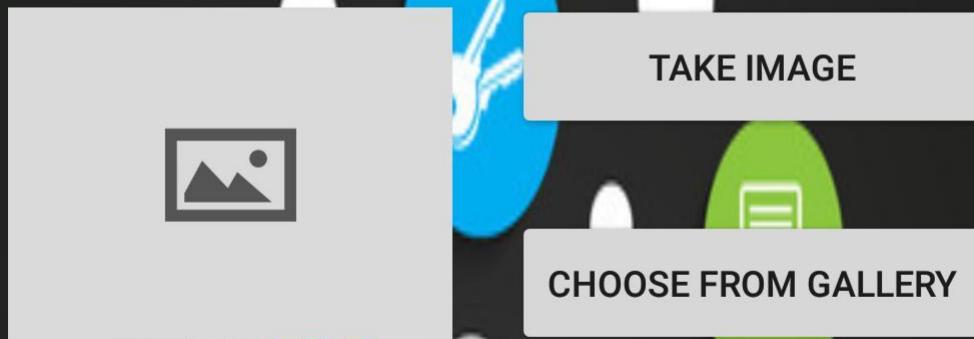






17:41

MapApplication



PRODUCT NAME:

PRODUCT
DESCRIPTION:

LOCATION:

Auto-fill after 10 secs

PHONE
NUMBER :

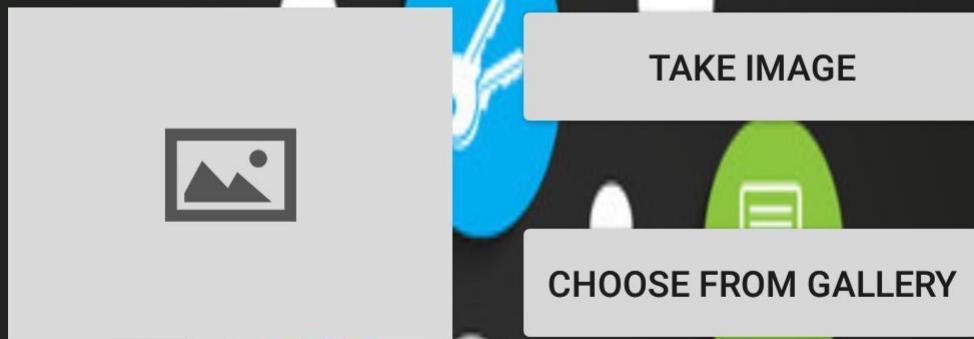
PRICE \$:

POST ADD



17:41

MapApplication



PRODUCT NAME:

PRODUCT
DESCRIPTION:

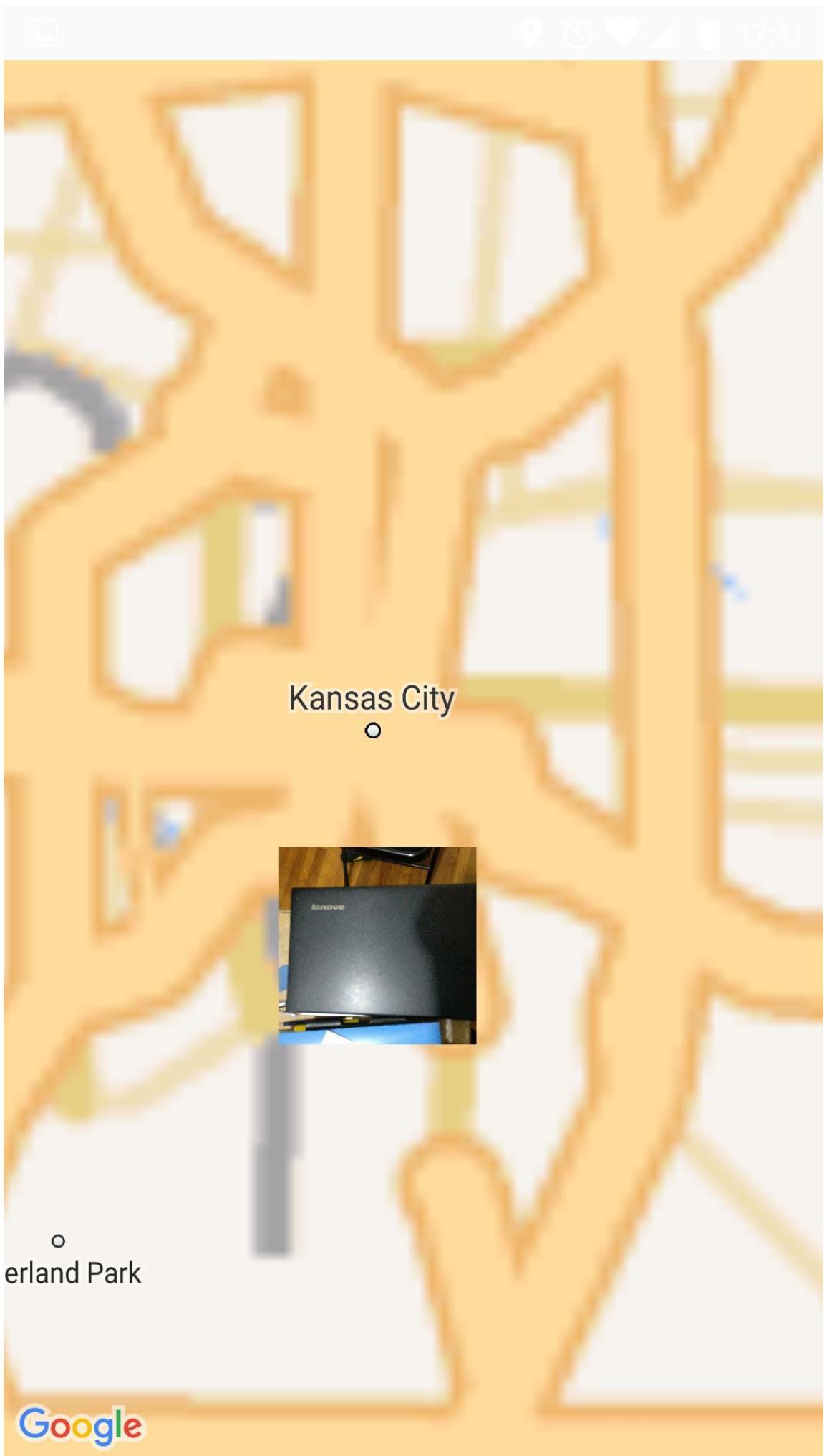
LOCATION:

Auto-fill after 10 secs

PHONE
NUMBER :

PRICE \$:

POST ADD



Kansas City



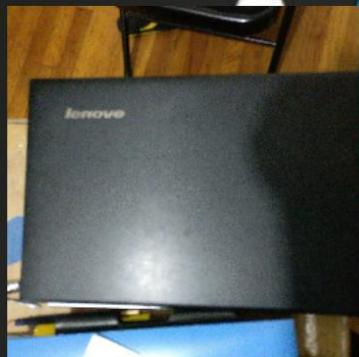
o
erland Park

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

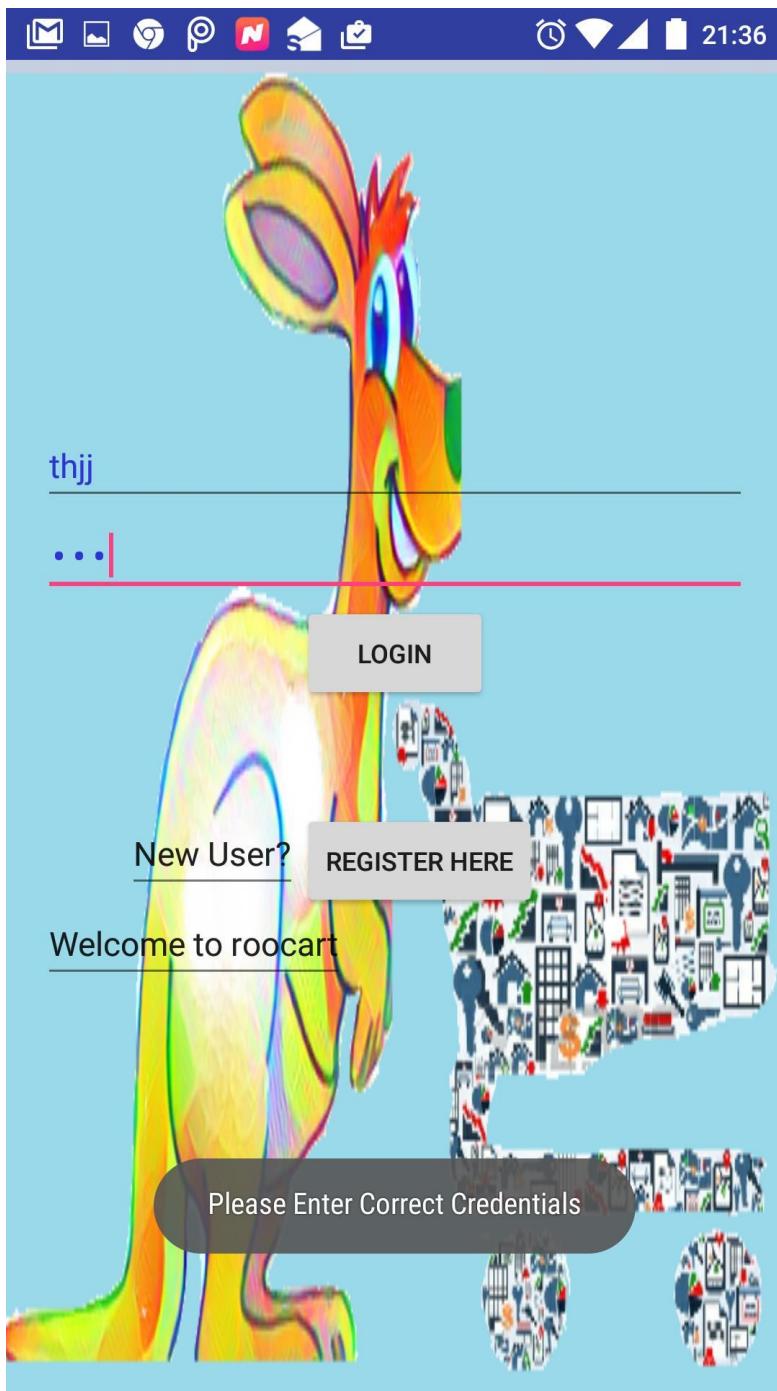
PRICE \$:

...

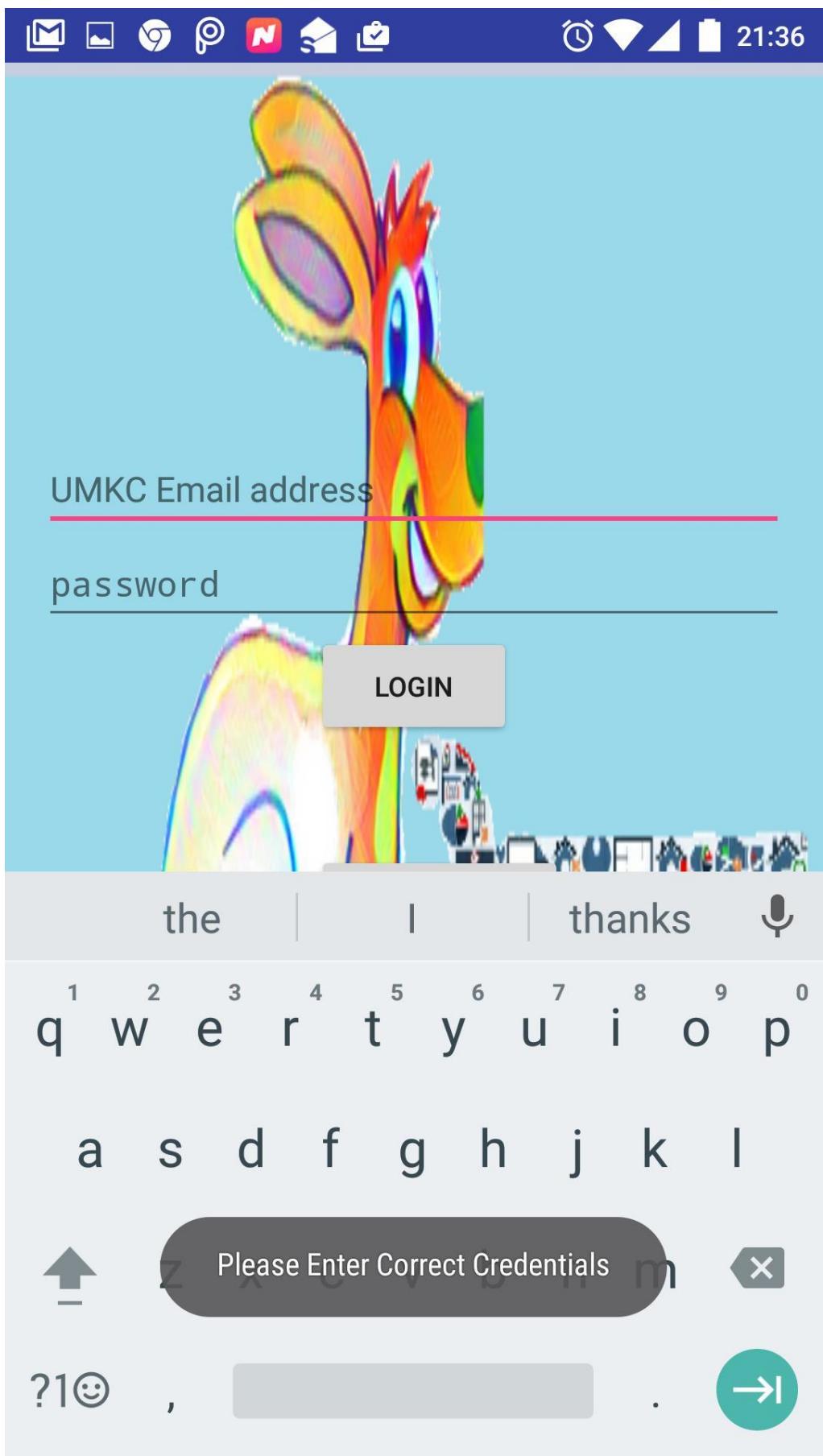
POST ADD

11. Unit Testing:

Please find the Screen shots of the validations

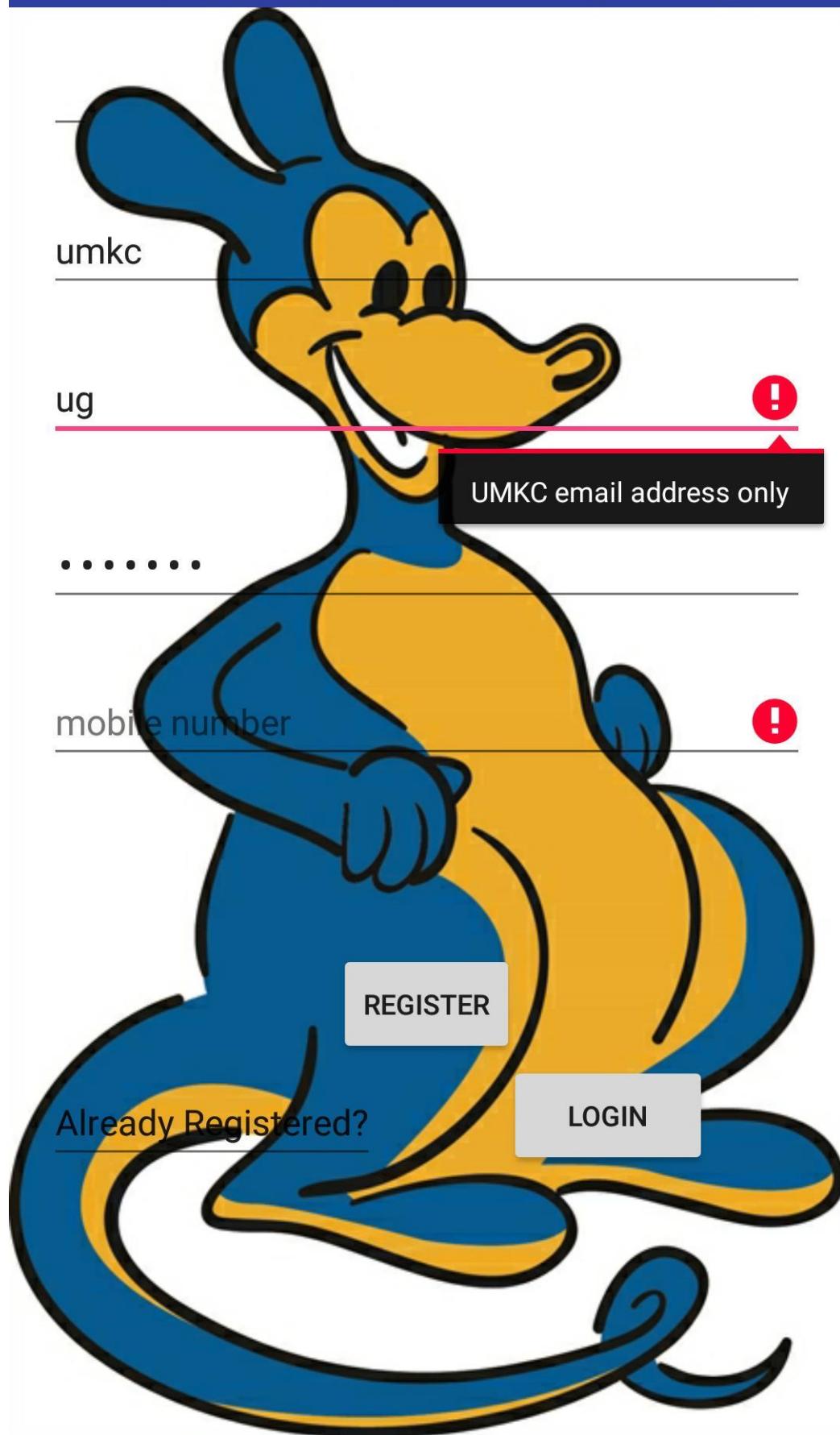


occurred.





21:35





21:35

umkc

ug

password

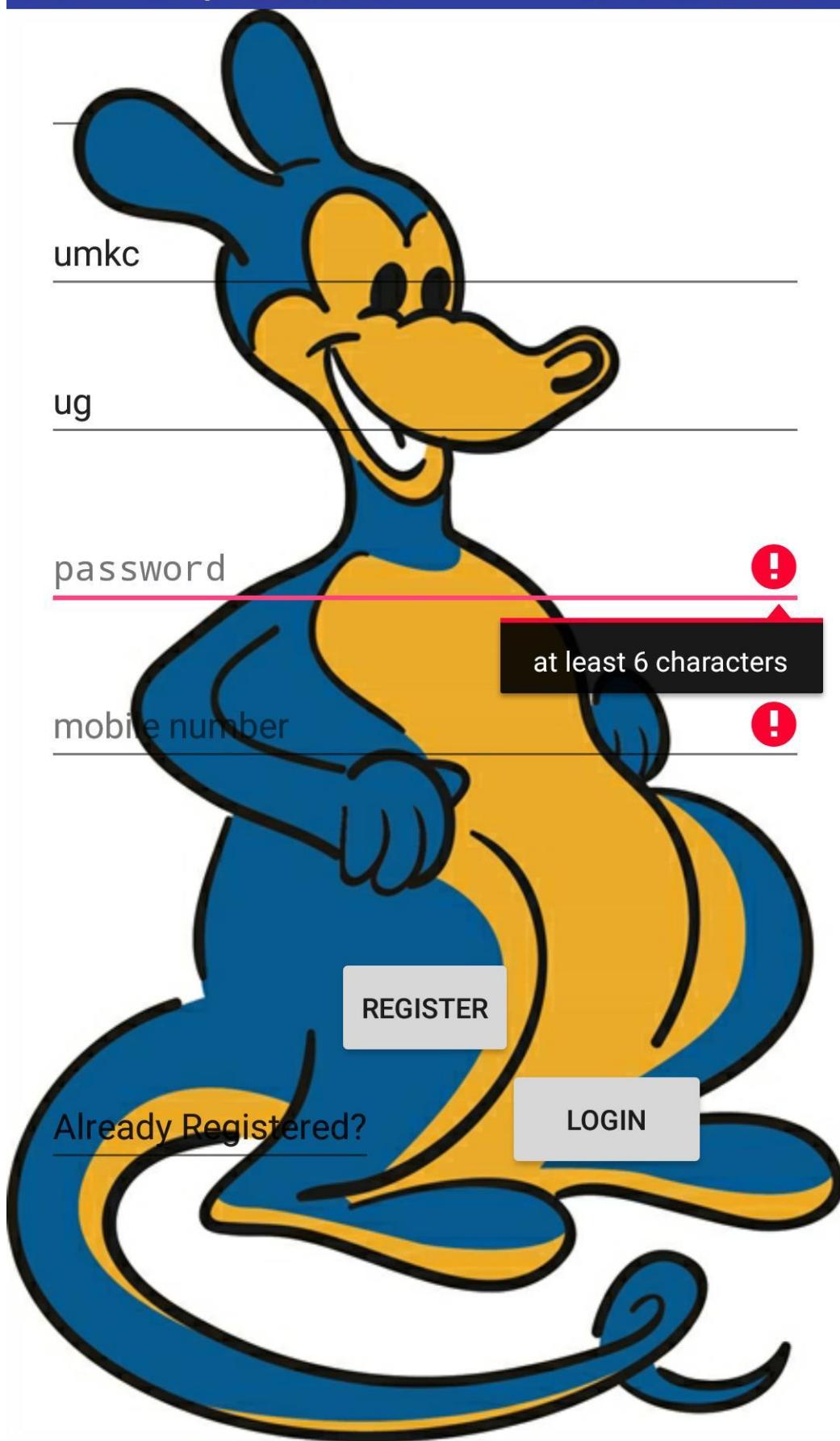
at least 6 characters

mobile number

REGISTER

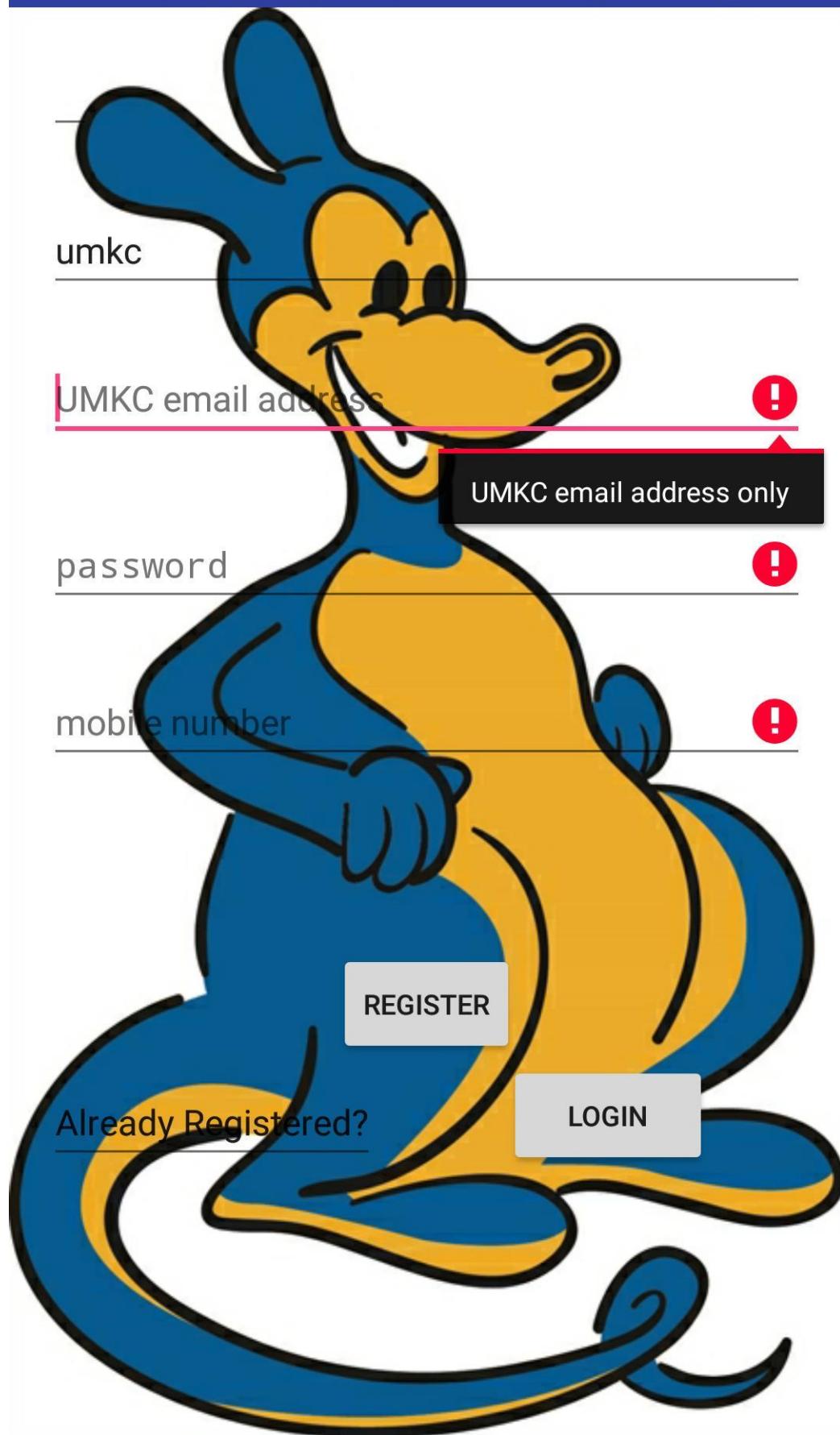
Already Registered?

LOGIN





21:34



Recent Developments:

Connection to Database.

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

The screenshot shows a web browser window with multiple tabs open. The active tab is 'ObjectLabs Corporation [US] | https://mlab.com/databases/rookart/collections/rookart'. The page displays a list of documents in the 'rookart' collection. Each document is represented by a card with fields: '_id', '\$oid', 'username', 'password', 'email', and 'phone'. There are three documents listed, each with a delete and edit icon. Below the list is a pagination control 'records / page 10' and a status '[1 - 10 of 10]'. The browser's address bar shows the URL 'https://mlab.com/databases/rookart/collections/rookart'. The top of the screen features the mLab logo and social media links (Twitter, Facebook, Google+). The navigation bar includes links for COMPANY, PRODUCT, SUPPORT, and CLOUDS. The bottom of the screen shows the Windows taskbar with various pinned icons.

Recent Developments:

Connection to Database.

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

mLab

COMPANY PRODUCT SUPPORT CLOUDS

Ask me anything

WELCOME PLANS + PRICING PLAN COMPARISON DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "rajesh.kolipara93@gmail.com", account: "rajesh kolipara" }

Home : { db : "rookart" } Collection: rookart

Documents Indexes Stats Tools

Documents

— Start new search —

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 10 of 10]

\$_id : 5823ab3/c2e1632e53e98ad
\$oid : 5823b2d8bd966f34b5f3e4ce
username : "hi"
password : ""
email : "
phone : "
_id : 5823b2d8bd966f34b5f3e2ub
\$oid : 5823b2d8bd966f34b5f3e2ub
username : "rajeshkolipara"
password : "Rajesh123"
email : "rajesh@gmail.com"
phone : "1234567890"
_id : 5823b2d8bd966f34b5f3e4ce
\$oid : 5823b2d8bd966f34b5f3e4ce
username : "sriharsha"
password : "Harsha123"
email : "srihariharsha@mail.com"

Documents (aka Objects)

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

Ask me anything



username:

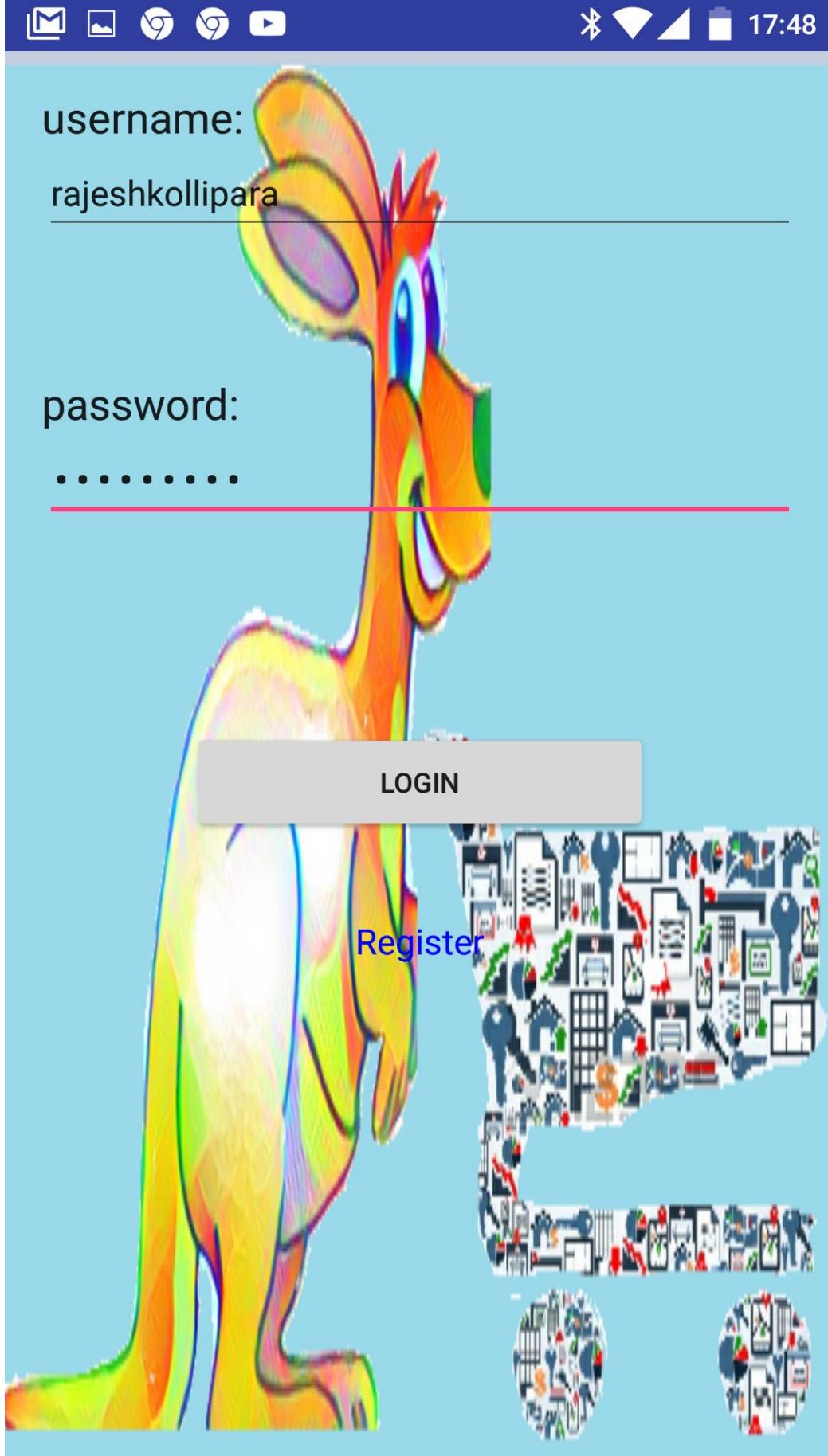
rajeshkollipara

password:

.....

LOGIN

Register





17:39

username:

Rajeshguptakollipara

password:

.....

confirm password:

.....

Email

rajesh123@gmail.com

phone number:

1234567890

REGISTER



18:01

username:

rajeshguptakollipara

password:

.....

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😊 ,

.





8:39

iphone 7



rajesh@gmail

8162663258

unlocked and half price

POST





8:50

iphone 7

rajesh@gmail

8162663258



unlocked and half price

USEIT





8:50



IPAD

GOOD AND NEW



IPHONE 7

UNLOCKED AND HALF
PRICE

POST YOUR ITEM



13. Project Management

RooKart Project Implementation:

Increment 3 – User Stories:

The screenshot shows the GitHub interface for the 'ASE-Team16 / RooKart' repository. The top navigation bar includes links for GitHub, Inc. [US], Apps, Gmail, Facebook, YouTube, Google, UMKC Mail, UMKC Pathway, Bank of America, UMKC Lookup, KCITY, UMKC Web, SBH, SBI, Vehicle Search, My HPGas, and Login. The main header shows the repository name and a search bar. Below the header, there are tabs for Code, Issues (23), Pull requests (0), Boards, Reports, Projects (1), and Wiki. The 'Issues' tab is selected. On the right side, there are buttons for Watch (0), Star (0), Fork (0), Edit milestone, and New issue.

Increment 3

Due by November 10, 2016 4% complete

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 se...

Show more ▾

See this milestone on the board

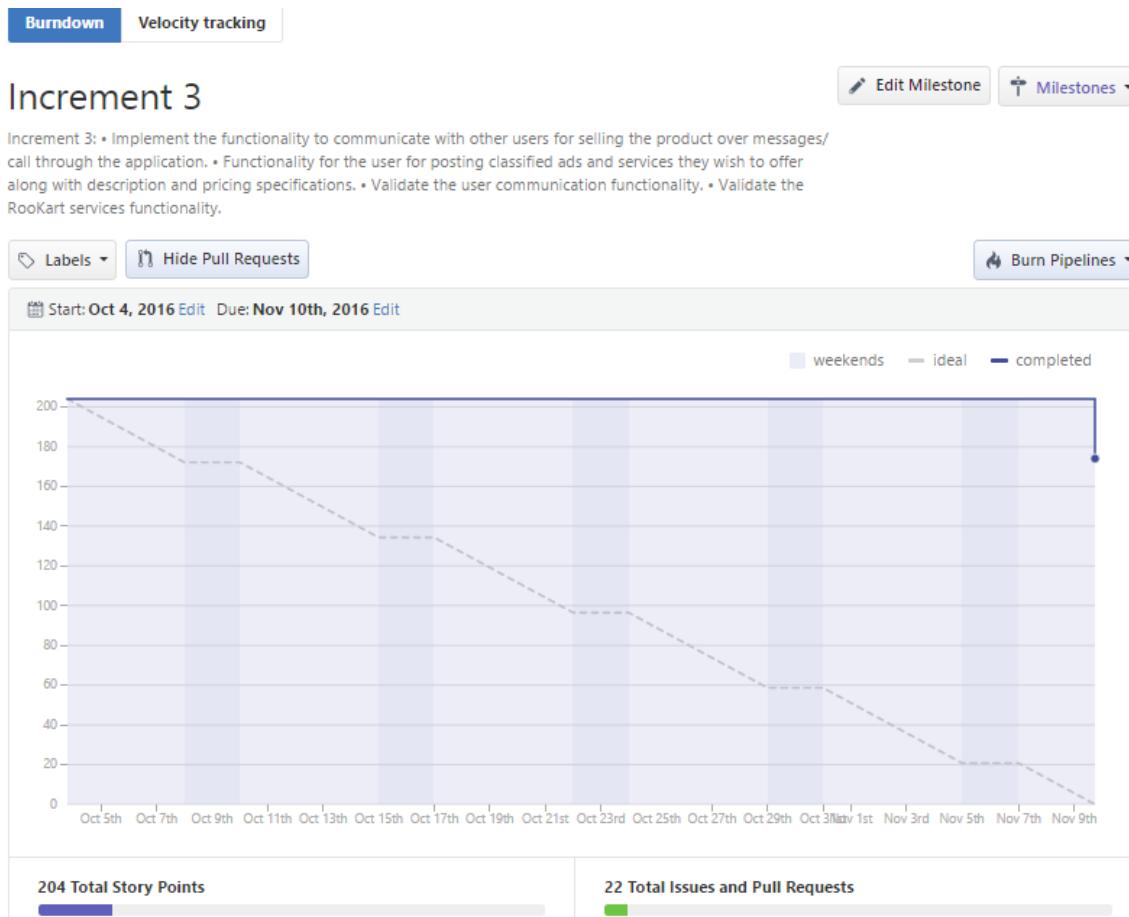
Open	Closed
21	1

Story Details

- Story 3.3 Validate the user while logging into RooKart application. #46 opened 32 minutes ago by Lavakumar90 In Progress
- Story 3.2 Update the database with the user details. #45 opened 32 minutes ago by Lavakumar90 In Progress
- Story 3.1 Modify the log in functionality. #44 opened 32 minutes ago by Lavakumar90 In Progress
- Story 3.6 Connect the Services functionality to RooKart database. #49 opened 31 minutes ago by Lavakumar90 In Progress
- Story 3.5 Connect the Products functionality to RooKart database. #48 opened 31 minutes ago by Lavakumar90 In Progress
- Story 3.4 Create the Mongo DB for RooKart application. #47 opened 31 minutes ago by Lavakumar90 In Progress
- Epic 3.2: Create database & Connect to RooKart application. #64 opened 25 minutes ago by Lavakumar90 In Progress
- Story 3.10 Implement the database connections for Product functionality. #54 opened 29 minutes ago by Lavakumar90 In Progress
- Story 3.9 Modify the List & Google views for Product functionality. #53 opened 29 minutes ago by Lavakumar90 In Progress
- Story 3.8 Re-design few fields in product screen. #55 opened 28 minutes ago by Lavakumar90 In Progress

<input type="checkbox"/>	① Story 3.9 Modify the List & Google views for Product functionality. 5	#53 opened 29 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.8 Re-design few fields in product screen. 5	#55 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.7 Modify the UI for RooKart Product screen. 5	#51 opened 29 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Epic 3.3: Build & enhance the Products functionality. 20	#50 opened 30 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.11 Modify the UI for RooKart Services screen. 5	#56 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.12 Re-design few fields in services screen. 5	#57 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.13 Modify the List & Google views for Services functionality. 5	#58 opened 28 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.14 Implement the database connections for Services functionality. 5	#59 opened 27 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Epic 3.4: Build & enhance the Services functionality. 20	#63 opened 26 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.15 Plan the increment & create the stories. 8	#60 opened 27 minutes ago by Lavakumar90	In Progress	
<input type="checkbox"/>	① Story 3.16 Create the project increment report. 8	#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	8
① Story 3.2 Update the database with the user details. RooKart #45 In Progress	5
① Story 3.3 Validate the user while logging into RooKart application. RooKart #46 In Progress	5
① Story 3.4 Create the Mongo DB for RooKart application. RooKart #47 In Progress	5
① Story 3.5 Connect the Products functionality to RooKart database. RooKart #48 In Progress	5
① Story 3.6 Connect the Services functionality to RooKart database. RooKart #49 In Progress	5
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	5
① Story 3.9 Modify the List & Google views for Product functionality. RooKart #53 In Progress	5
① Story 3.10 Implement the database connections for Product functionality. RooKart #54 In Progress	5
① Story 3.8 Re-design few fields in product screen. RooKart #55 In Progress	5
① Story 3.11 Modify the UI for RooKart Services screen. RooKart #56 In Progress	5

① Story 3.11 Modify the UI for RooKart Services screen. RooKart #56 In Progress	5
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

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, Phase 2 Report Document.

9. Umkc.edu

10. Mongo DB

11. Amazon Aws