



Resource Checklist

By _____

Team Name – Decoders

Team No# 20

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Project Goal and Objectives:

Motivation:

In today's busy life, resource monitoring has become a big issue because of the growing work pressure and social pressure we may forget the things we had lent. I had a real-time experience with this kind of situation. I had lent a book to my friend which I found to be very motivational and interesting but I forgot to take it back. After few months, I thought of reading the book again and searched for it but I cannot find it. I was not able to recollect where I had kept the book or whom I had given to. After two years, when my friend was shifting home, he found the book in their store room and returned it to me asking apologies for the mistake. Most of my friends tell me that they faced a situation like this in their life. So, we thought that there is need to develop a resource management system for people. The application can be used for keeping record of the items being borrowed by individuals. As smart phones are becoming part of our lives, it is the best choice to deploy our resource management system.

Objective:

The application mainly aims at keeping track of various items such as books, tablets or any other devices either by a barcode scan or by taking a picture manually even by entering the current location of borrower. The scope of this application is that it can be used by anyone who wants to keep track of their belongings.

Significance/Uniqueness:

Although there are other applications which can remind you of the things which you have lent, our application differs from them because of the following features:

- The applications which are present currently can remind you just with the text which you had written for that reminder, but in our application, we had incorporated two new features as the user can associate a picture with it or he can have a bar code scan for the item which he is lending. The reminder in our application will show you that information also.
- In our application, a message (either a text message or an email) will be sent to both the lender and the borrower saying that the due date is approaching for the item. This will ensure better security.

System Features:

The resource monitoring app can be used to keep track of items.

The system features include:

- Users can scan the item that they are lending, and then enter the details of the person whom they are lending it to.
- They can also store the information of the items that do not have a barcode, this can be done by taking the picture of the item manually and storing the details of the borrower.
- Send Email or text message to the borrower as a reminder
- Uses SQLite database for the implementation of storing the details
- All the details are stored in a List View format and can be viewed from history
- Delete the details when we get back the item.

First Increment Report:

Existing Services/REST API:

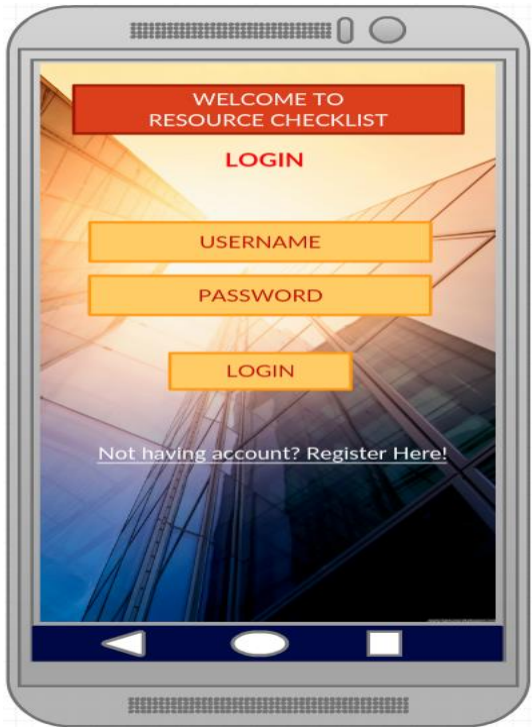
API's Used: Facebook Login API and Google API.

Detail Design of Features:

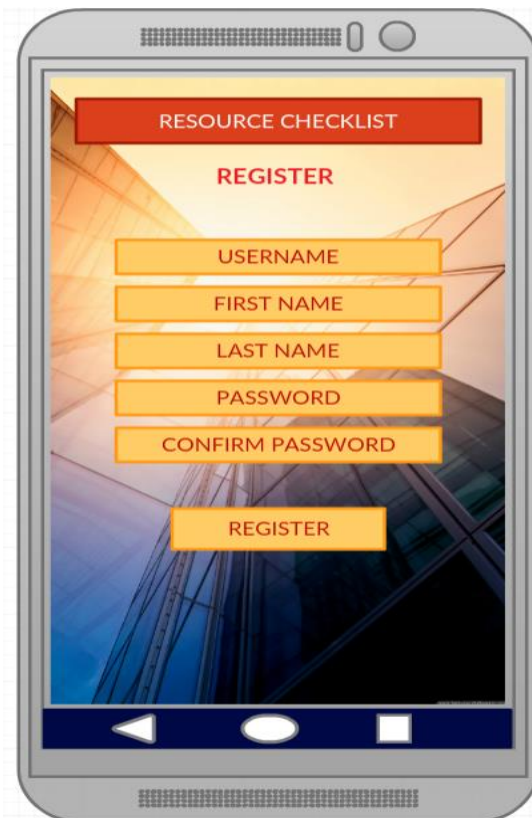
Wireframes:

Login Page:

Resource Checklist

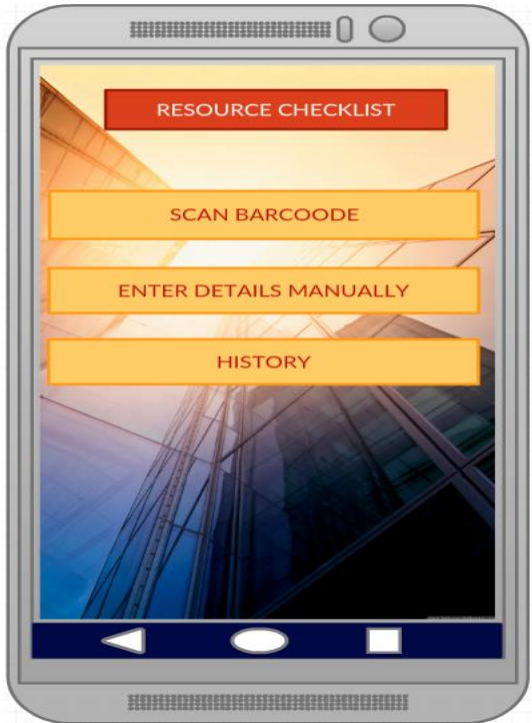


Register Page:



Home Page:

Resource Checklist



Manual Entry:



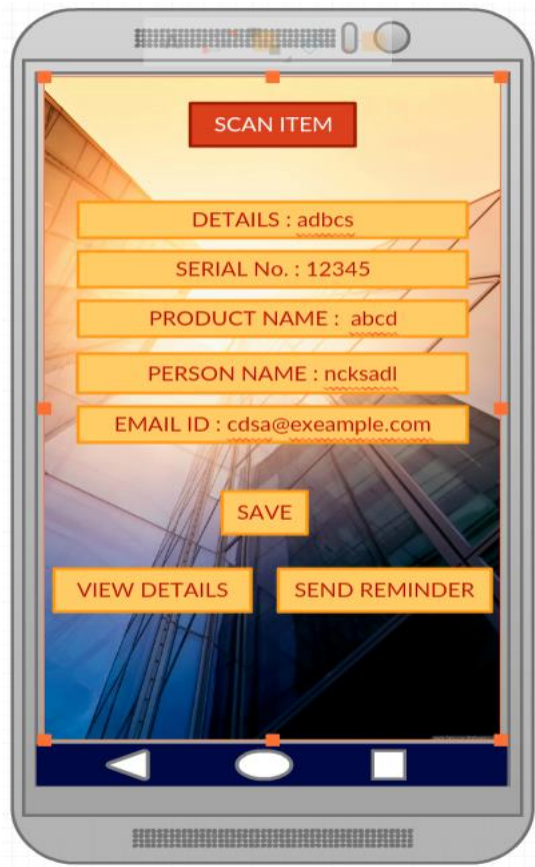
Product Search:

Resource Checklist

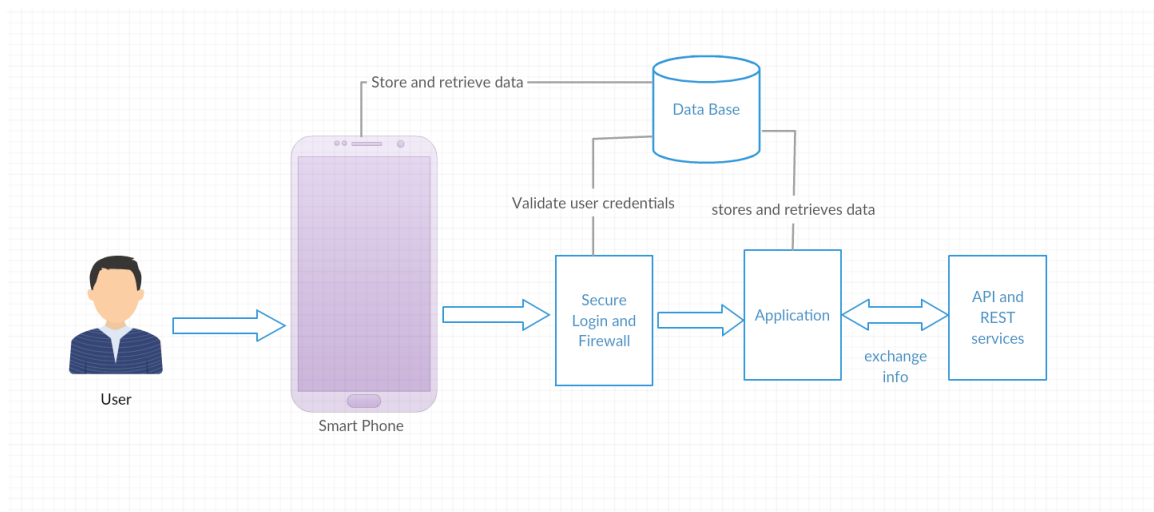


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Scan Item:

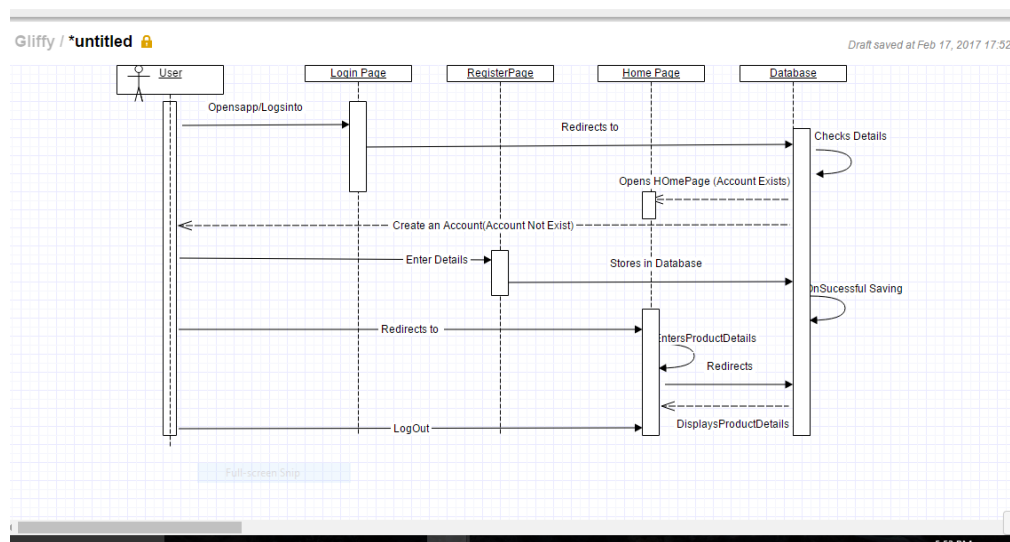


Architecture Diagram:

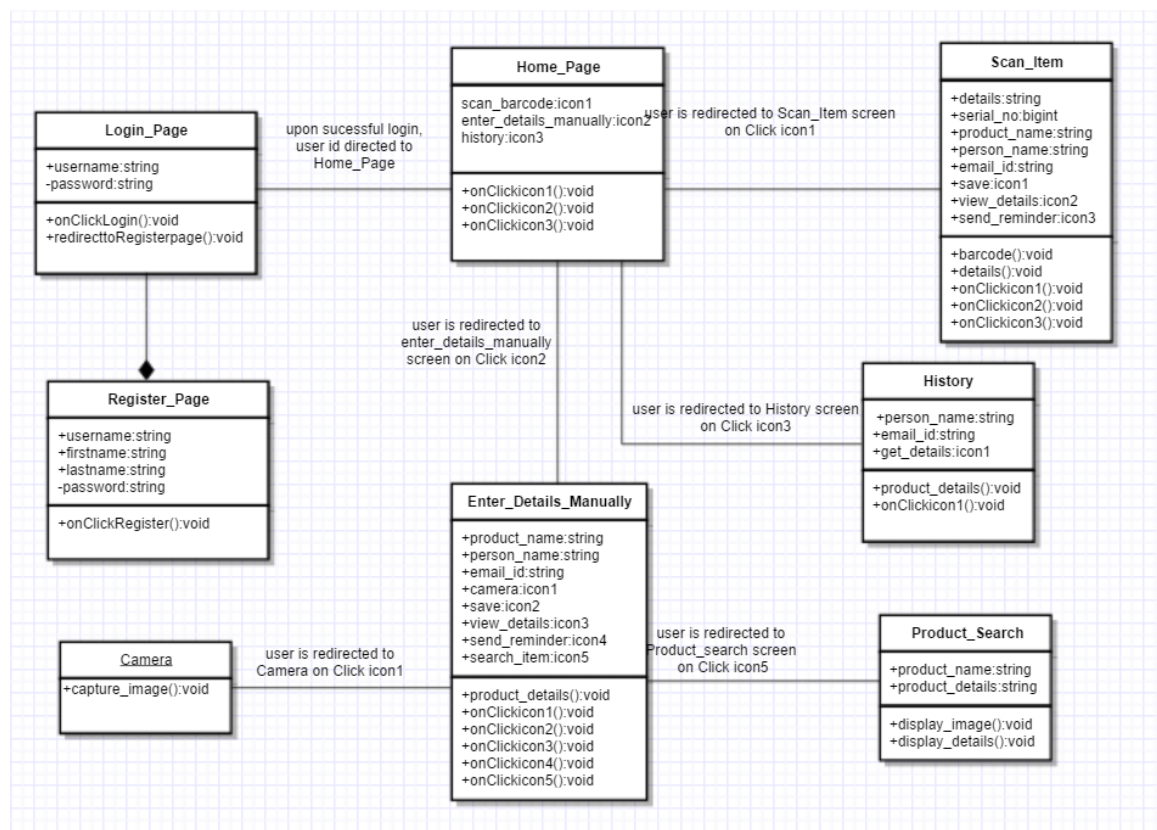


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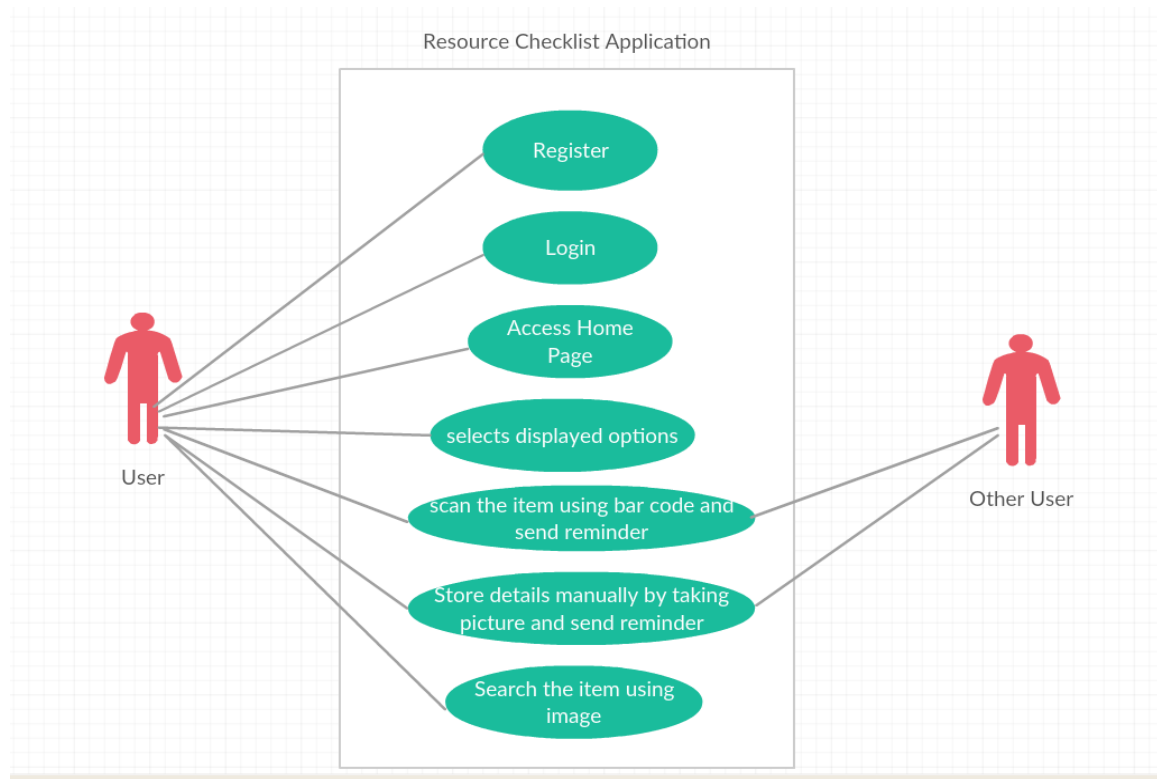
Sequence Diagram:



Class Diagram:



Use Case:



User Stories:

1. Plan the increments to create resource management application.
2. Finalize the project plan and document the revised project plan.
3. As a user, I should be able to login into the resource checklist application.
4. As a user, I should to have options to register to the application to use it.
5. The user should be redirected to the Home Page after a successful login.
6. The user should have two options to enter a product details. One is through Barcode scanning and the other is to enter the details manually.

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Testing:

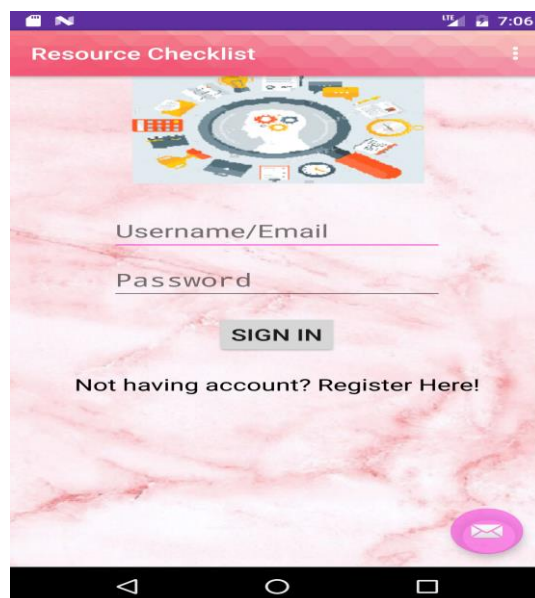
Unit Testing:

User Story Number	Test Case Description	Expected Result	Test Result
3	Enter invalid mail ID and valid password	Error message should come as "invalid credentials"	PASS
3	Enter valid mail ID and invalid password	Error message should be displayed as "invalid credentials"	PASS
3	Enter invalid mail ID and invalid password	Error message should come as "invalid credentials"	PASS
5	Enter valid mail ID and valid password	User is redirected to Homepage successfully	PASS
4	Enter a word without @gmail.com at the end of the string in email ID field	Error message should be displayed as "enter valid mail ID"	PASS
4	Enter a password with length less than 4 characters	Gives error message "password should have minimum of 5 characters"	PASS
4	Enter two different passwords in password field and confirm password field.	Gives error message "passwords do not match"	PASS
4	Enter all the fields in register page correctly	User is redirected to home page successfully	PASS

Implementation:

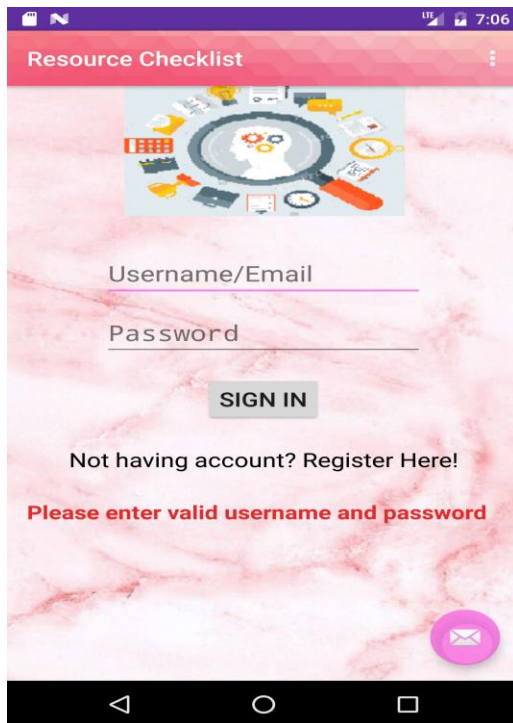
The "Resource Checklist" application has implemented in Android Studio onto an emulator. Below screenshots describes the flow

Login Page:

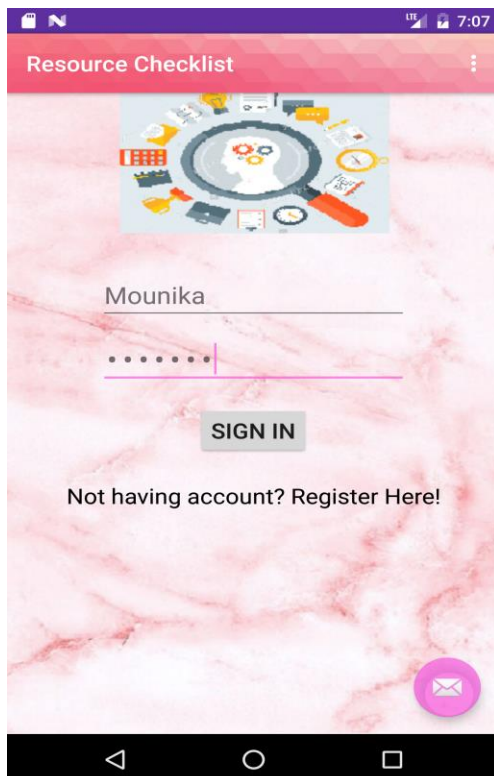


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Invalid Credentials:

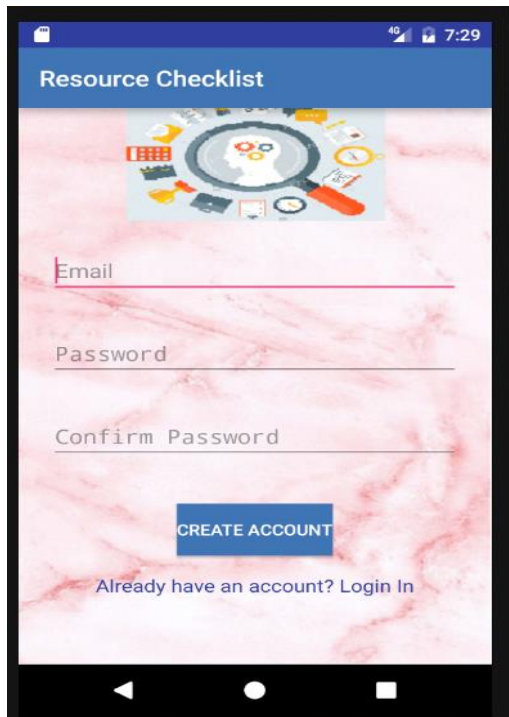


Successful Login:



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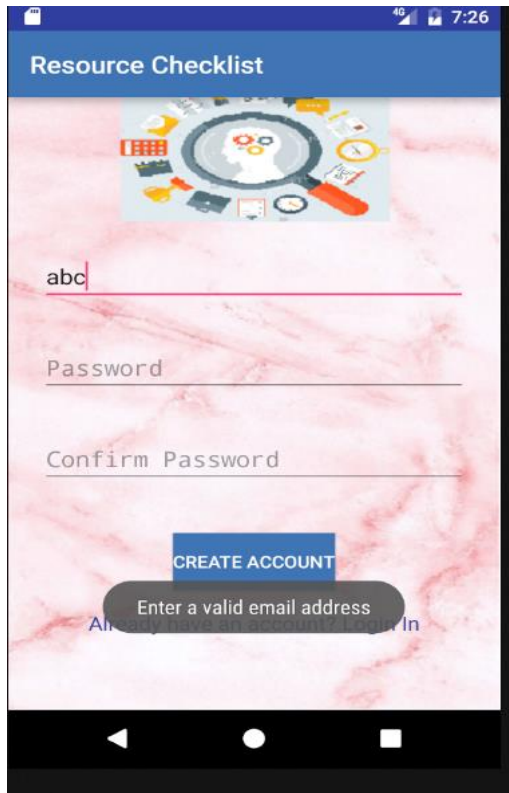
Registration Page:



The screenshot shows a mobile application interface for a 'Resource Checklist'. At the top, there is a blue header with the title 'Resource Checklist'. Below the header is a circular graphic containing various icons representing different resources. The main form area has a pink marble background and contains three input fields: 'Email', 'Password', and 'Confirm Password'. Below these fields is a blue button labeled 'CREATE ACCOUNT'. At the bottom of the form, there is a link that says 'Already have an account? Login In'. The mobile status bar at the top shows the time as 7:29 and the signal strength as 4G.

Invalid Credentials:

Resource Checklist



Resource Checklist

abc

Password

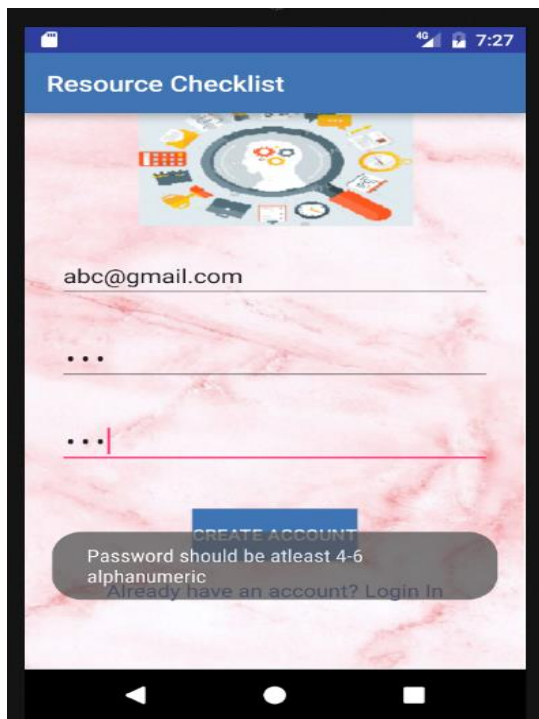
Confirm Password

CREATE ACCOUNT

Enter a valid email address

Already have an account? Login In

Password Verification:



Resource Checklist

abc@gmail.com

...

...

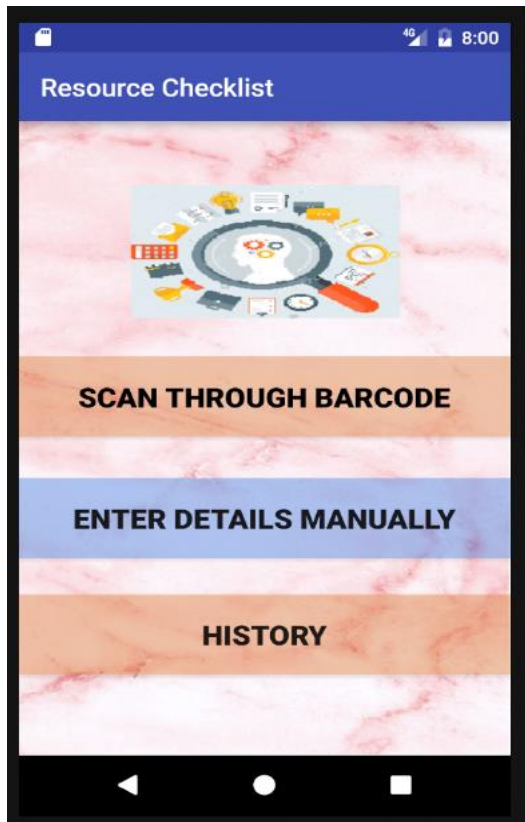
CREATE ACCOUNT

Password should be atleast 4-6 alphanumeric

Already have an account? Login In

Home Page:

Resource Checklist



Deployment:

The “Resource Checklist” application has implemented in Android Studio onto an emulator of which screenshots are provided above.

Project Management:

Implementation status Report:

Work Completed:

- Wire Frames and Mockups
Contributor – Uma Maheshwara Reddy Mandapati
Time taken – 5 hours
Contributions – 25%
- Architecture diagram, Class diagram
• Use Case diagram, Sequence diagram
Contributor – Mounika Prathipati
Time taken – 20 hours
Contributions – 25%
- Set up required tools such as android studio, zenhub and github, visio

Resource Checklist

- Finalizing the required API useful for the application.
Contributor – Swathi Jasthi
Time taken – 20 hours
Contributions – 25%
- Login, Registration and Home page
Contributor – Divya Gaddam, Uma maheshwara Reddy
Time taken – 20 hours
Contributions – 25%

Work to be completed:

- Design the barcode scanning page
Responsibility – Swathi Jasthi
Estimated hours – 80 hours
- Enter the details manually page
Responsibility – Mounika Prathipati
Estimated hours – 80 hours
- Implement the object detection feature
Responsibility – Divya Gaddam
Estimated hours – 80 hours
- Improve the user interface of the application
Responsibility – Uma Maheshwara Reddy Mandapati
Estimated hours – 80 hours

Bibliography:

<https://developers.google.com/maps/documentation/javascript/get-api-key>
https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJ0zG4r4k_zLKrnxl
<https://developer.android.com/training/basics/firstapp/creating-project.html>
<https://www.udacity.com/course/android-development-for-beginners--ud837>
<https://www.gliffy.com/>
<https://createy.com/>
<https://github.com/KeepSafe/android-resource-remover>

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