



Resource Checklist

By

Team Name – Decoders

Team No# 20

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Resource Checklist

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.

Resource Checklist

- 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.

Second Increment Report:

Existing Services/REST API:

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

Detail Design of Features:

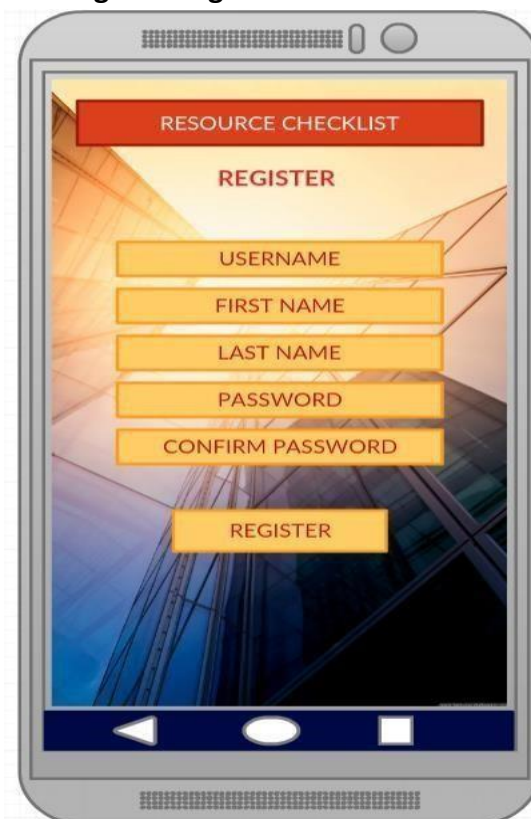
Wireframes:

Login Page:

Resource Checklist

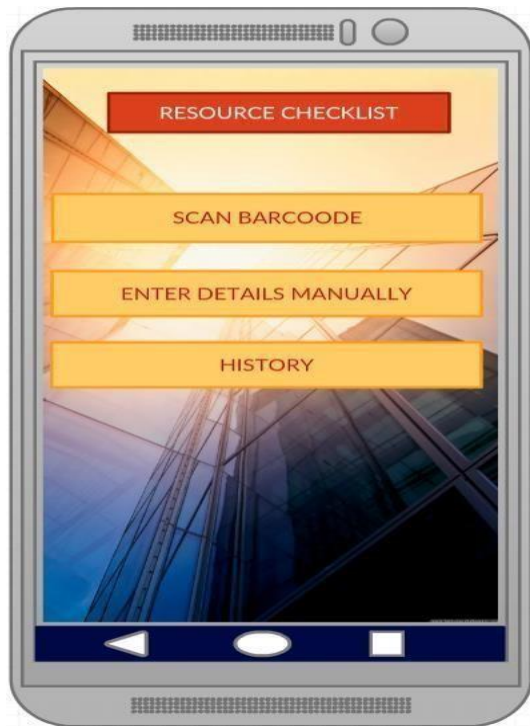


Register Page:



Home Page:

Resource Checklist



Manual Entry:

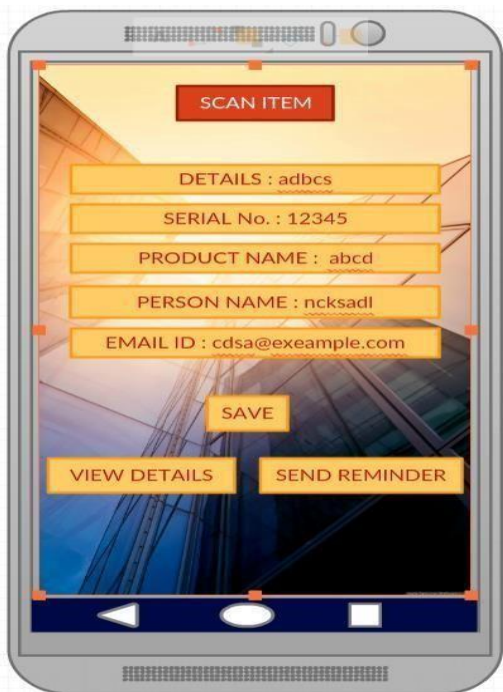


Resource Checklist

Product Search:



Scan Item:



History:

Resource Checklist

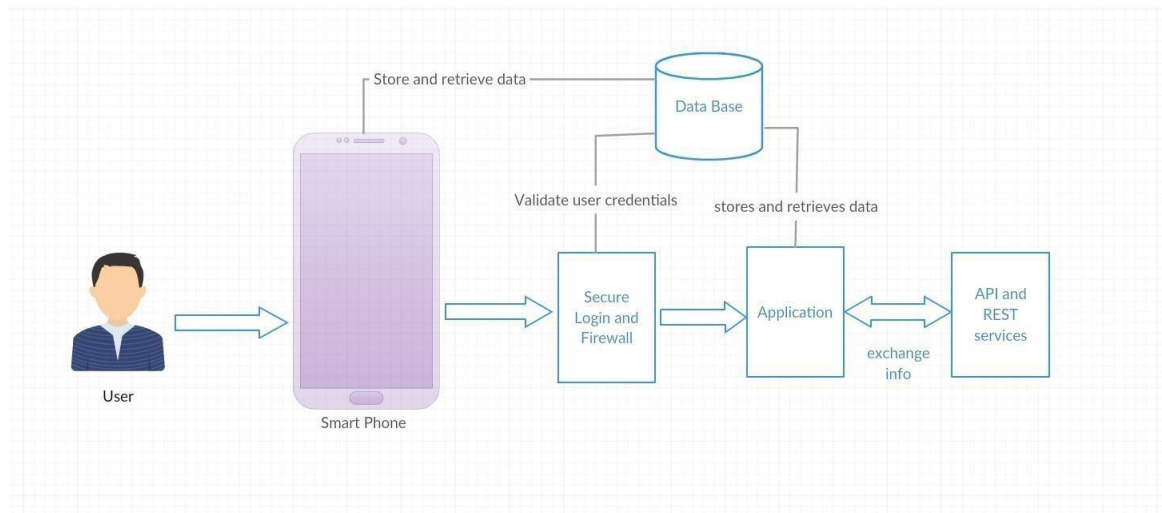


Selecting an item from history:

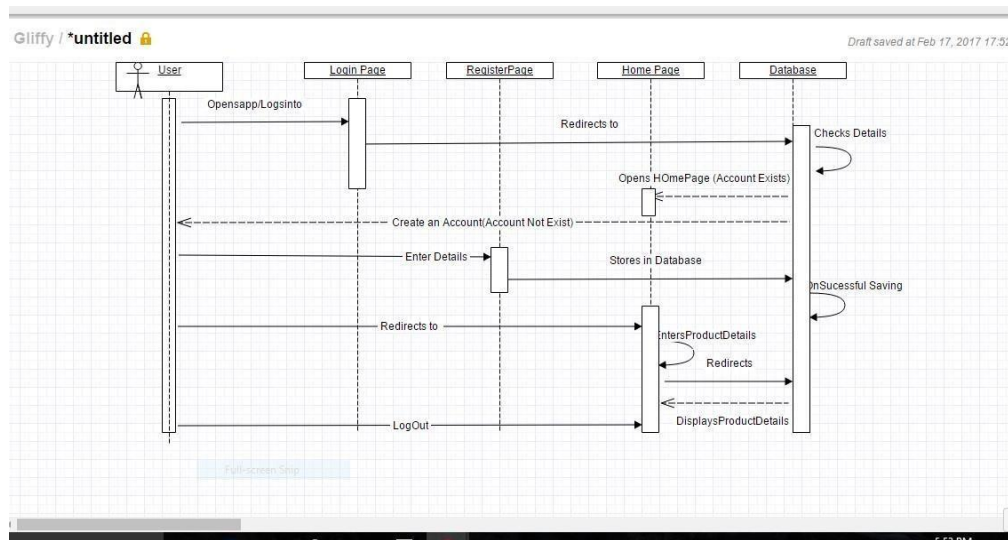


Architecture Diagram:

Resource Checklist

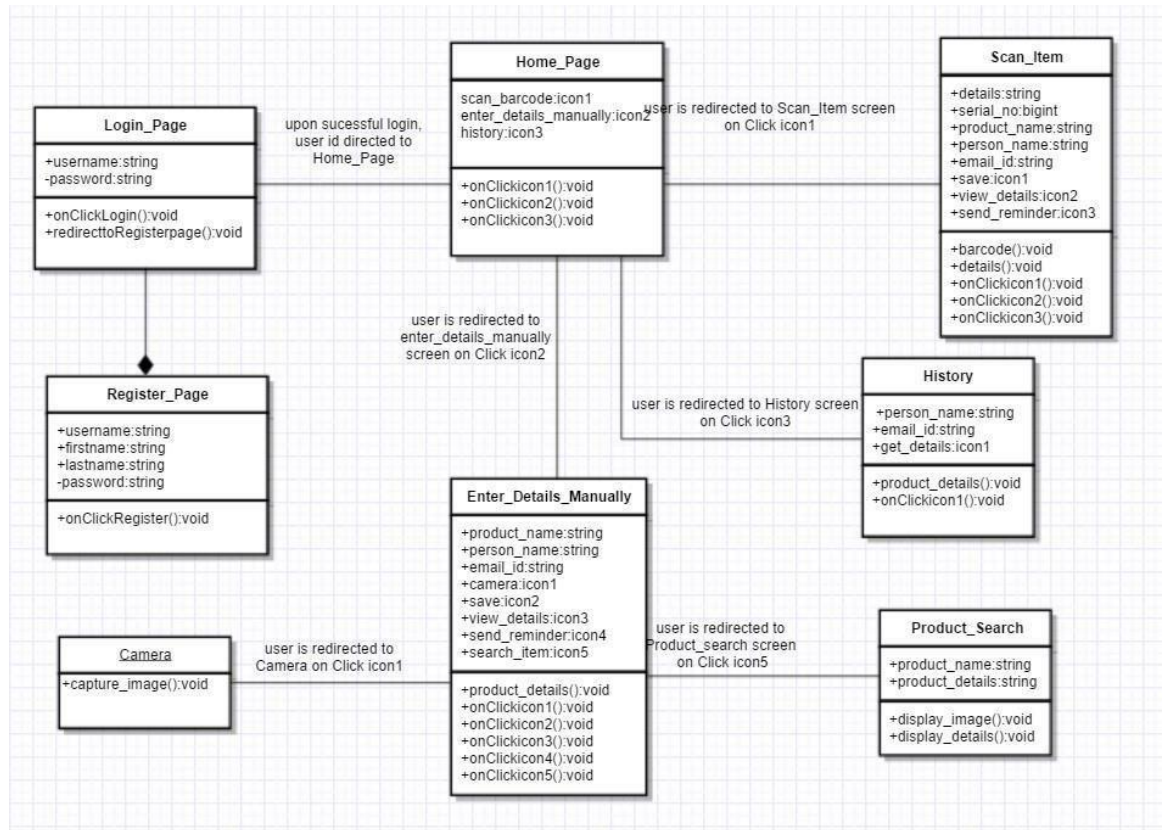


Sequence Diagram:



Resource Checklist

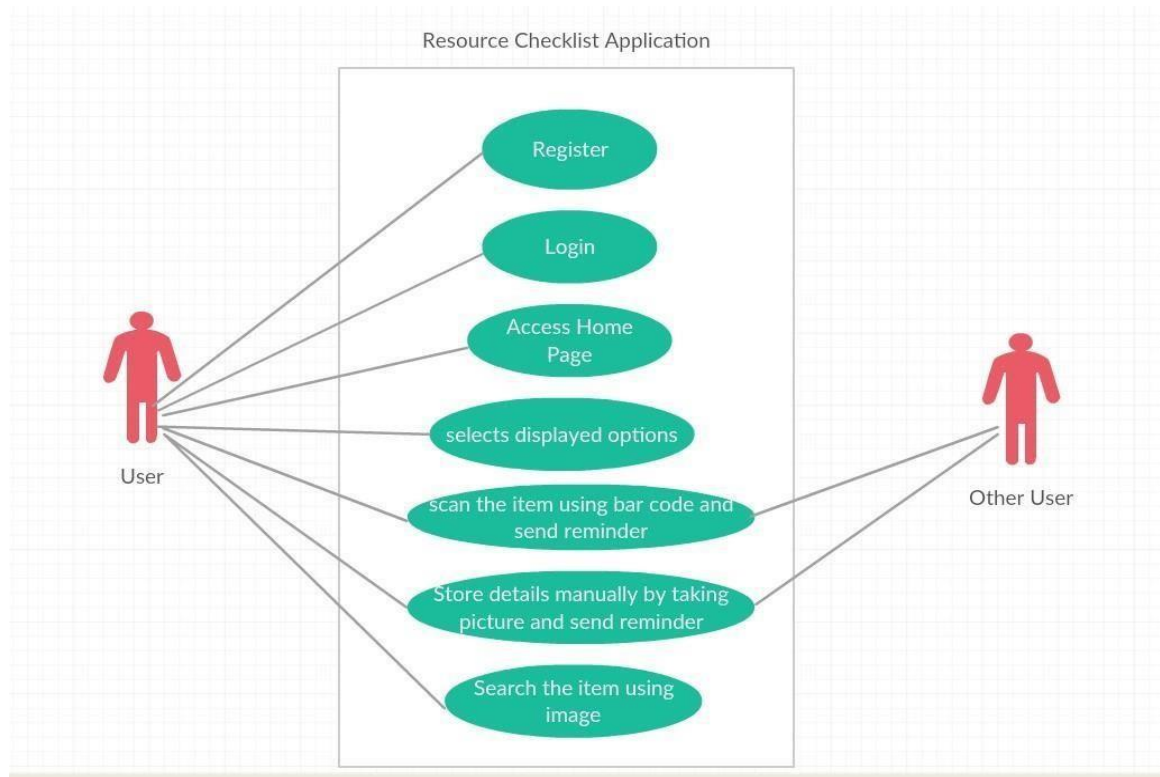
Class Diagram:



Page

Use Case:

Resource Checklist

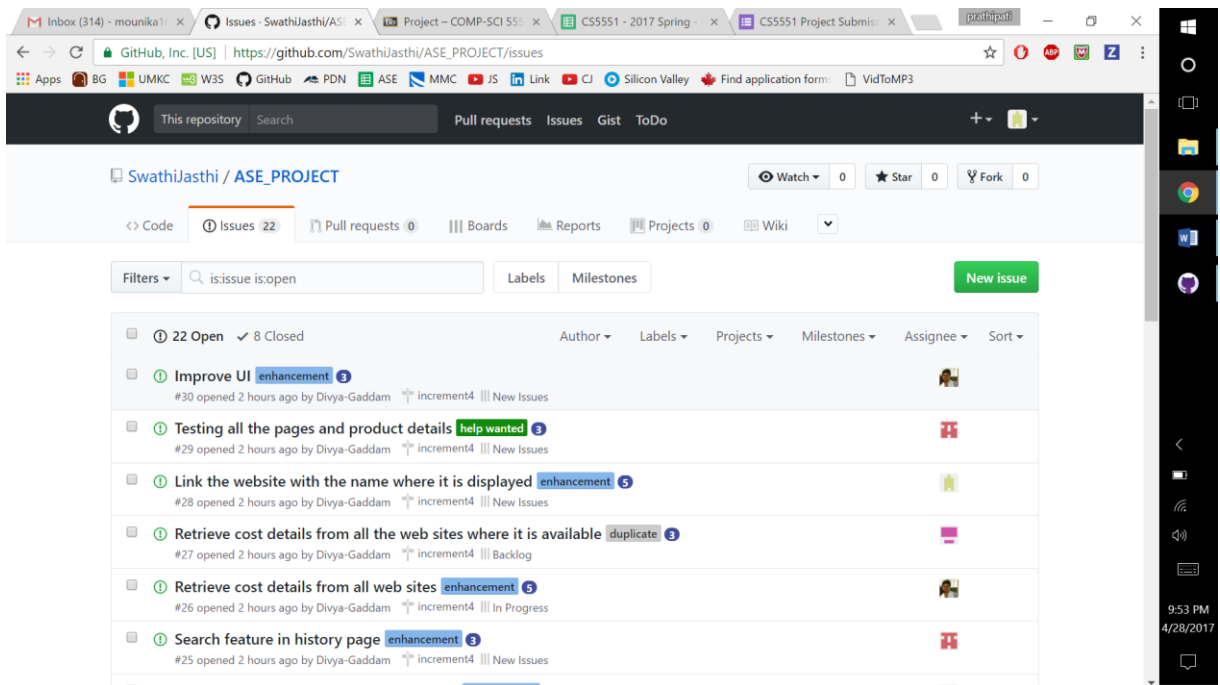


User Stories:

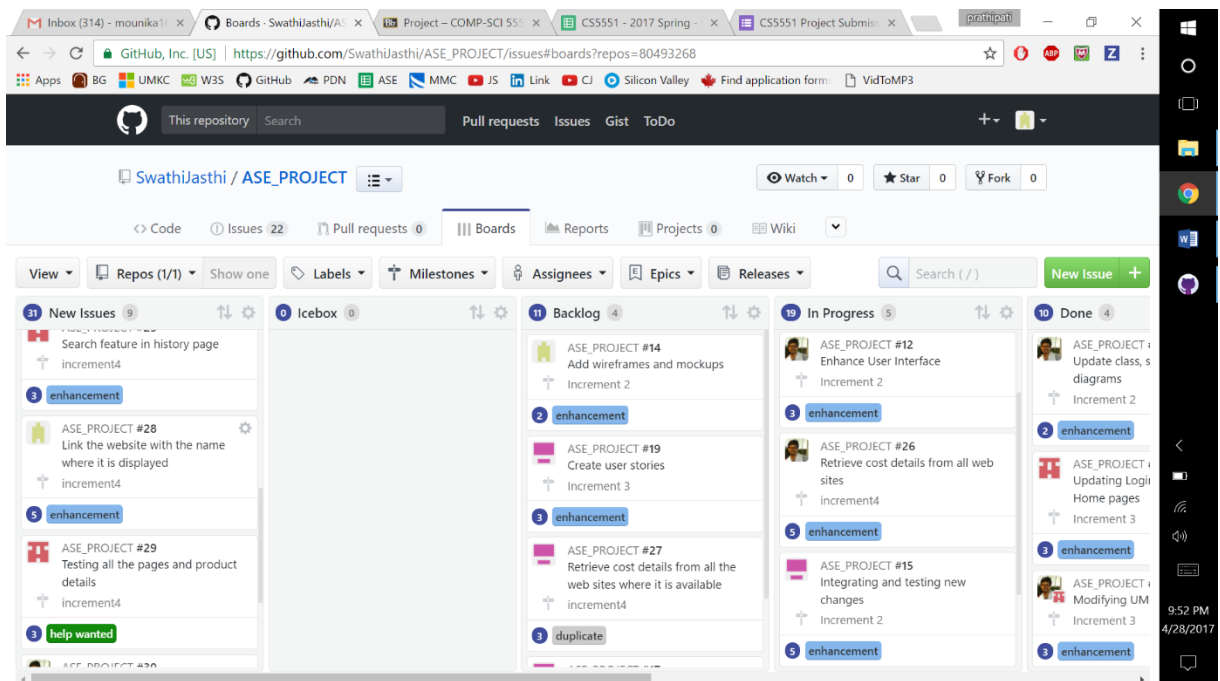
1. Plan the increments to create resource management application.
2. Finalize the project plan and document the revised project plan.
3. As a user, I should be able to login into the resource checklist application.
4. As a user, I should to have options to register to the application to use it.
5. The 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.
7. Being a user I can scan the item through Barcode Scanner and able to add it to my database using SQLite to history.
8. Sending text message or Email to the corresponding borrower to remind him saying his due date is approaching.
9. Sending remainder to the person repeatedly from history by selecting the corresponding item.
10. I could be flexible in erasing item details from history if I do not want anymore.

ISSUES:

Resource Checklist

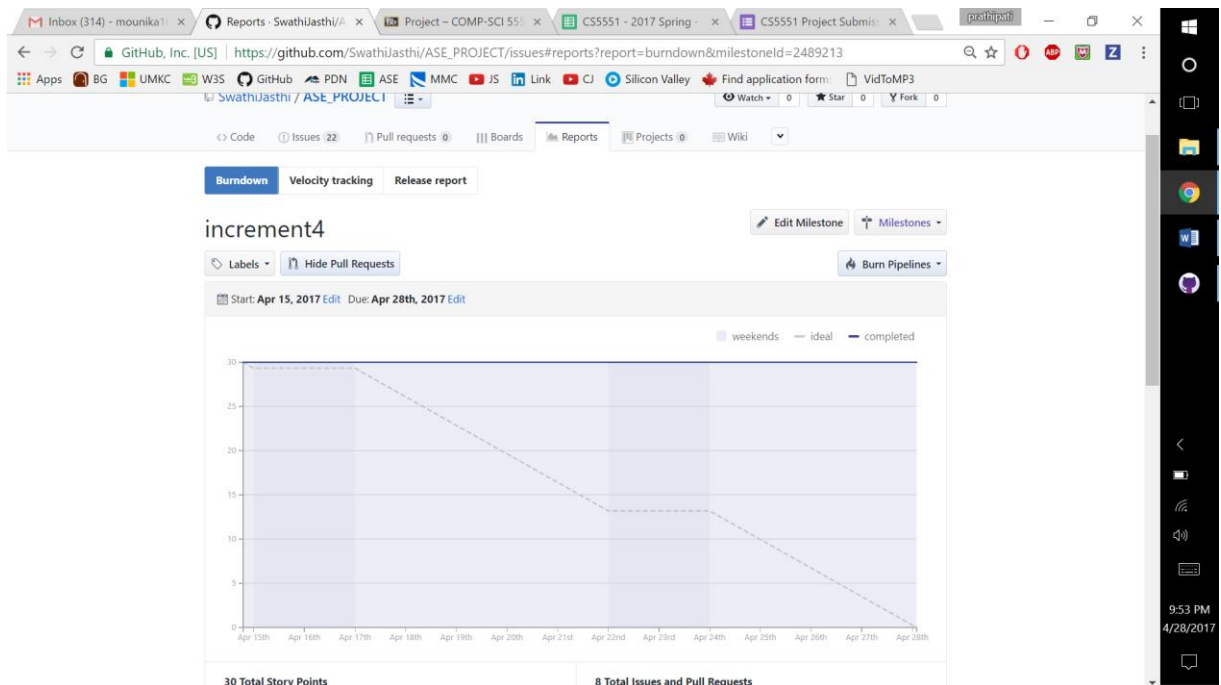


BOARD:



BURNDOWN CHART:

Resource Checklist



Testing:

Unit Testing:

Resource Checklist

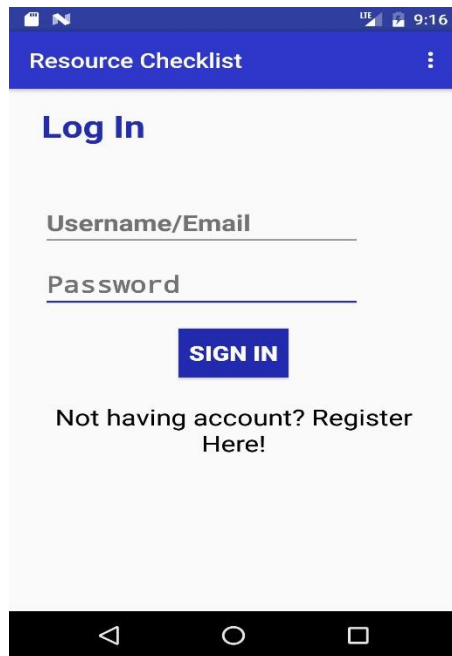
User Story Number	Test Case Description	Expected Result	Test Result
3	Enter invalid mail ID and valid password	Error message should come as "invalid credentials"	PASS
3	Enter valid mail ID and invalid password	Error message should be displayed as "invalid credentials"	PASS
3	Enter invalid mail ID and 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
7	Scanning the item through Barcode Scanner	Scanning the Barcode	PASS
7	Details are to be saved	Displaying the saved results	PASS
8	Sending the reminder to the corresponding person	Reminder sent	PASS
9	After Sending the reminder the details are to be saved	Details are saved and can view in history	PASS
10	Flexibility in clearing the unwanted data	Cleared the data	PASS

Resource Checklist

Implementation:

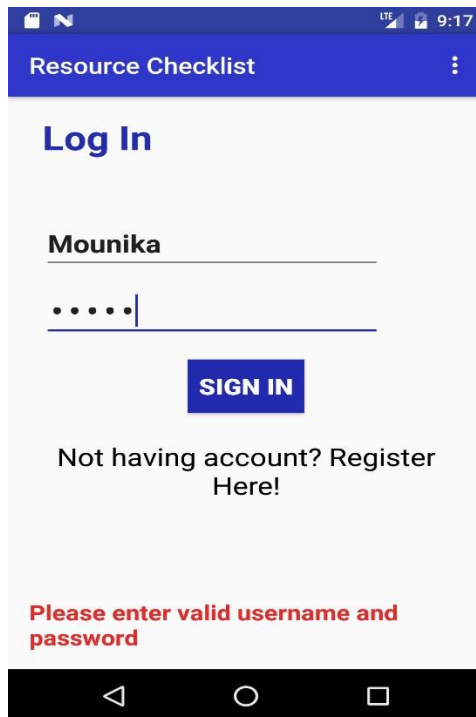
The “Resource Checklist” application has implemented in Android Studio onto an Android mobile. Below screenshots describes the flow

Login Page:



A screenshot of an Android application titled "Resource Checklist". The app has a blue header bar with the title and a menu icon. Below the header, the text "Log In" is displayed in blue. There are two input fields: "Username/Email" and "Password". Below these fields is a blue button labeled "SIGN IN". At the bottom of the form, there is a link that says "Not having account? Register Here!". The Android navigation bar is visible at the bottom.

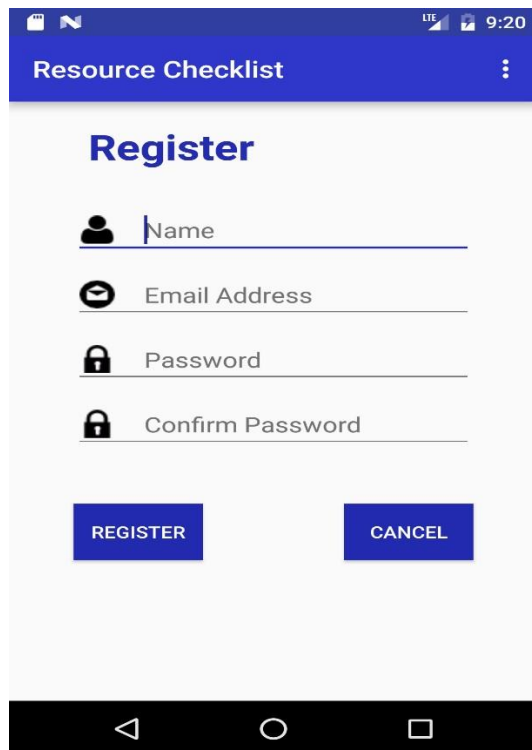
Invalid Credentials:



A screenshot of the same "Resource Checklist" app, but now showing an error message. The "Username/Email" field is filled with "Mounika" and the "Password" field is filled with five dots. The "SIGN IN" button is still present. Below the button, the link "Not having account? Register Here!" is visible. At the bottom of the screen, a red error message reads: "Please enter valid username and password". The Android navigation bar is visible at the bottom.

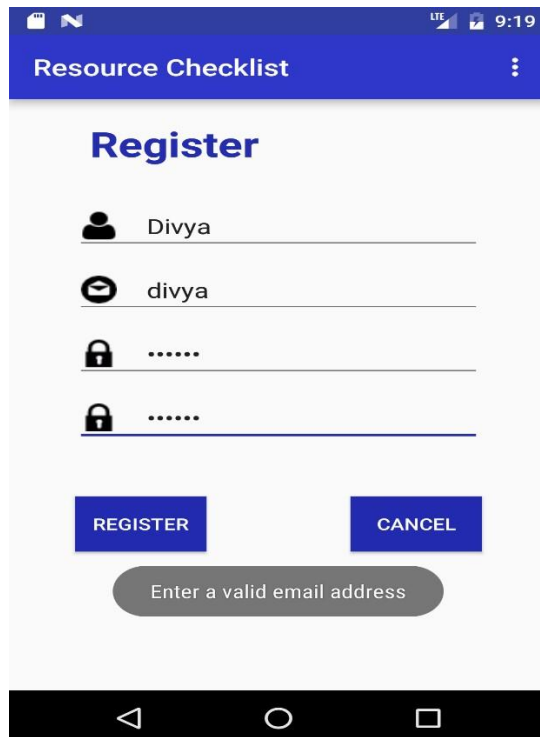
Resource Checklist

Registration Page:



A screenshot of a mobile application interface titled "Resource Checklist". The screen displays a "Register" form with four input fields: "Name", "Email Address", "Password", and "Confirm Password". Each field is preceded by an icon (person, envelope, and two padlocks respectively). Below the fields are two blue buttons labeled "REGISTER" and "CANCEL". The status bar at the top shows "LTE" and the time "9:20". The bottom navigation bar is visible.

Invalid email-id:



A screenshot of the same "Resource Checklist" app showing the "Register" form. The "Name" field is filled with "Divya", and the "Email Address" field is filled with "divya". The "Password" and "Confirm Password" fields are filled with dots. Below the "REGISTER" and "CANCEL" buttons, a grey rounded rectangle contains the text "Enter a valid email address". The status bar at the top shows "LTE" and the time "9:19". The bottom navigation bar is visible.

Resource Checklist

Password mismatch:

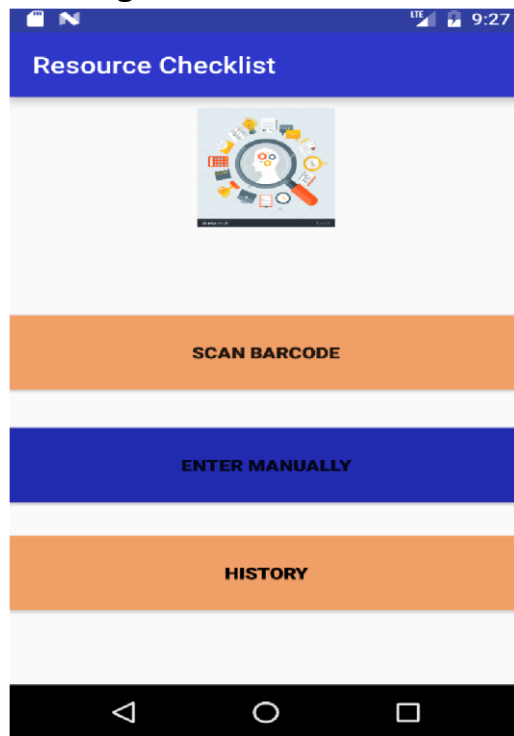
A screenshot of a mobile application titled "Resource Checklist" with a "Register" screen. The form contains the following fields: a name field with "Divya", an email field with "divyagaddam@gmail.com", a password field with ".....", and a confirm password field with "....". Below the fields are "REGISTER" and "CANCEL" buttons. A grey error message box at the bottom states "Passwords do not match". The status bar at the top shows the time as 9:20.

Invalid password:

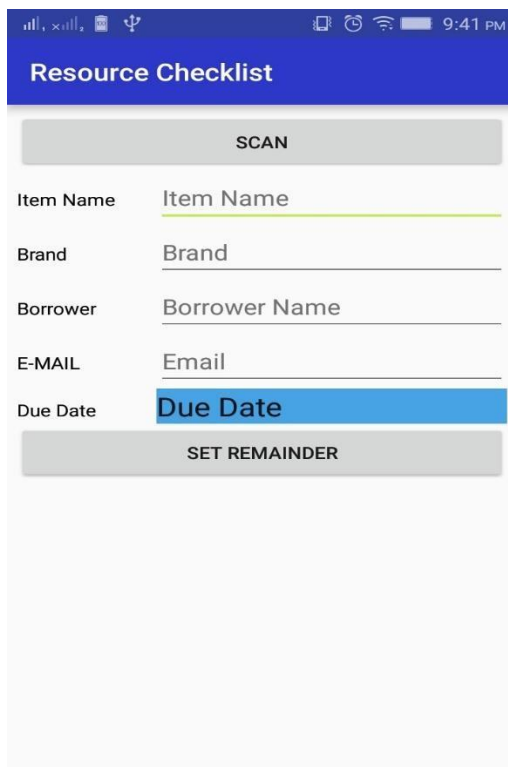
A screenshot of the same mobile application titled "Resource Checklist" with a "Register" screen. The form contains the following fields: a name field with "Divya", an email field with "divyagaddam@gmail.com", a password field with "...", and a confirm password field with "...". Below the fields are "REGISTER" and "CANCEL" buttons. A grey error message box at the bottom states "Password should be atleast 4-6 alphanumeric". The status bar at the top shows the time as 9:18.

Resource Checklist

Home Page:

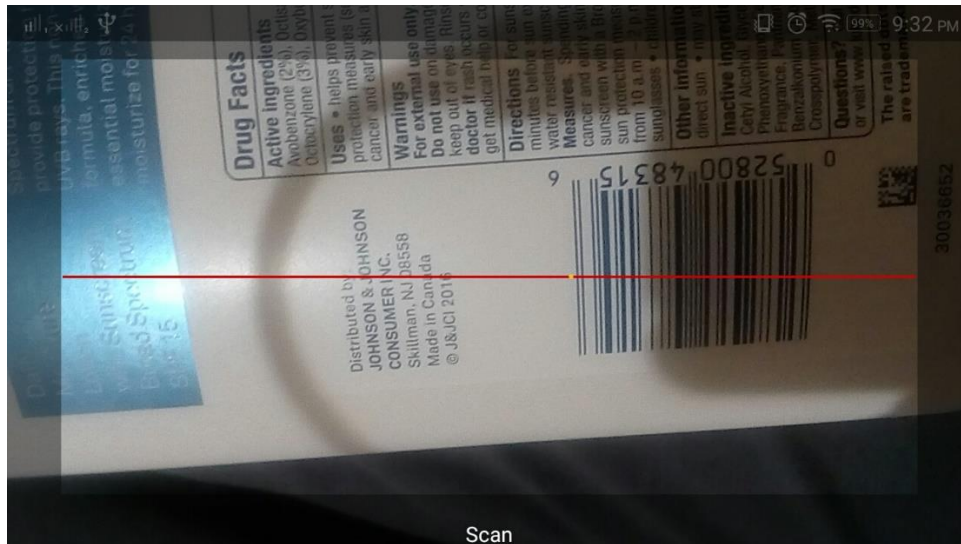


SCAN ITEM:

A screenshot of the "SCAN ITEM" screen in the application. It features a blue header with "Resource Checklist". Below the header is a gray button labeled "SCAN". Underneath is a form with five input fields, each with a label on the left and a text input on the right: "Item Name" with "Item Name" entered, "Brand" with "Brand" entered, "Borrower" with "Borrower Name" entered, "E-MAIL" with "Email" entered, and "Due Date" with "Due Date" entered. The "Due Date" field is highlighted with a blue background. At the bottom of the form is a gray button labeled "SET REMAINDER".

Resource Checklist

Scanning Item:



Details are populated after scan:

Resource Checklist

SCAN

Item Name Lubriderm Daily Moisture Lotion

Brand Johnson & Johnson

Borrower div

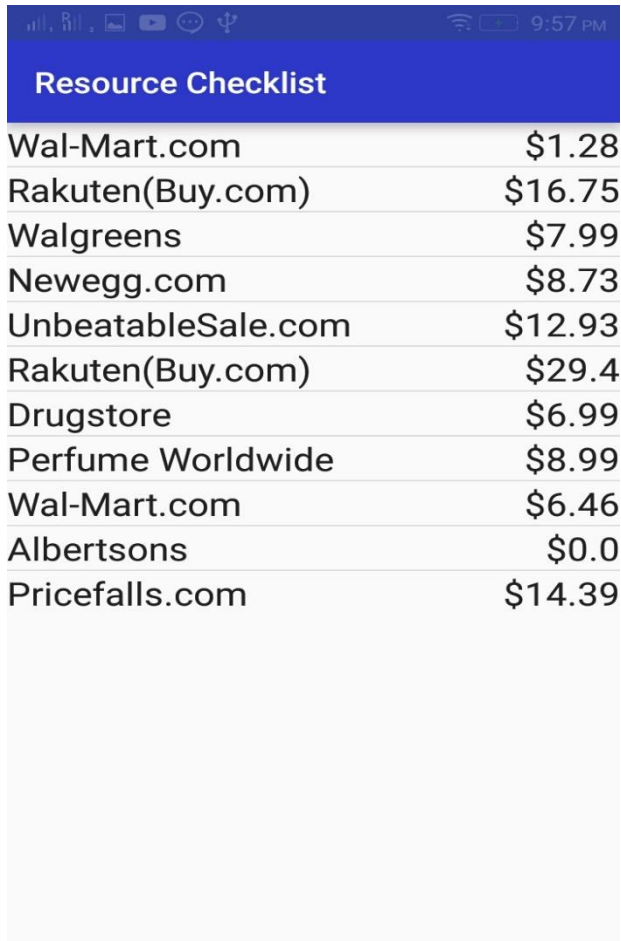
E-MAIL div@gmail.com

Due Date 10-4-2017

SET REMAINDER

Resource Checklist

Price Comparison:

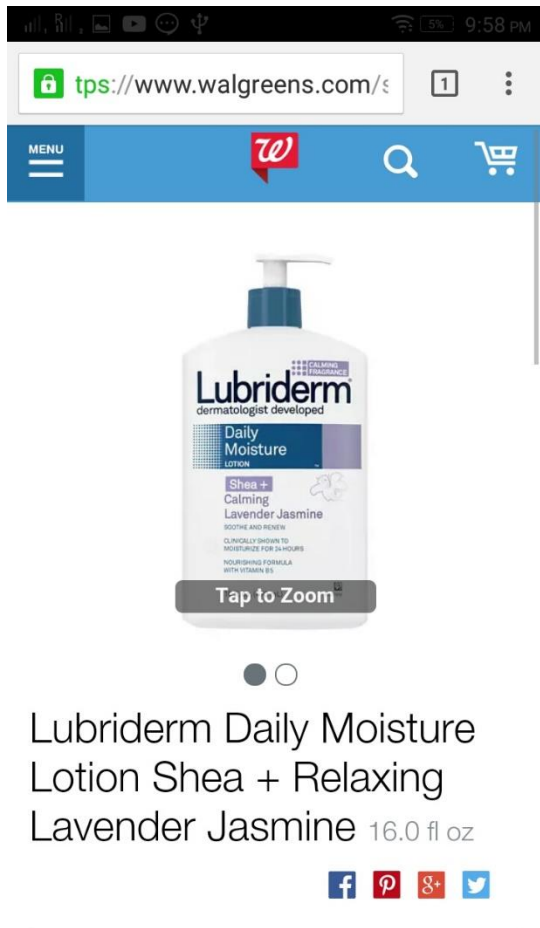


The screenshot shows a mobile application interface. At the top, there is a status bar with various icons and the time 9:57 PM. Below this is a blue header with the text 'Resource Checklist'. The main content is a table with two columns: the item name and the price. The items listed are Wal-Mart.com, Rakuten(Buy.com), Walgreens, Newegg.com, UnbeatableSale.com, Rakuten(Buy.com), Drugstore, Perfume Worldwide, Wal-Mart.com, Albertsons, and Pricefalls.com. The prices range from \$0.0 to \$29.4.

Resource Checklist	
Wal-Mart.com	\$1.28
Rakuten(Buy.com)	\$16.75
Walgreens	\$7.99
Newegg.com	\$8.73
UnbeatableSale.com	\$12.93
Rakuten(Buy.com)	\$29.4
Drugstore	\$6.99
Perfume Worldwide	\$8.99
Wal-Mart.com	\$6.46
Albertsons	\$0.0
Pricefalls.com	\$14.39

Redirecting to website:

Resource Checklist



Scan Item 2:

Resource Checklist

Resource Checklist

SCAN

Item Name Doritos Jacked Ranch Dip X

Brand Frito-Lay, Inc. X

Borrower mouni X

E-MAIL swathijasthi@gmail.com X

Due Date **Due Date**

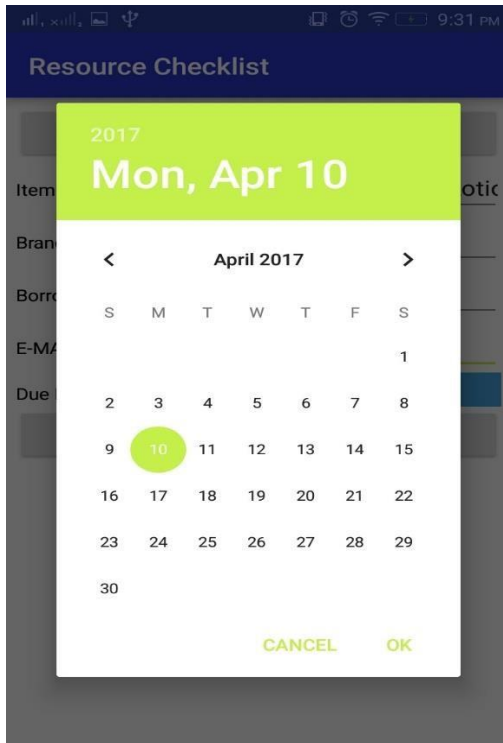
SET REMAINDER PRICE COMPARE

Resource Checklist

Wal-Mart.com \$1.28

Resource Checklist

Calendar option for due date:



HISTORY:

Resource Checklist

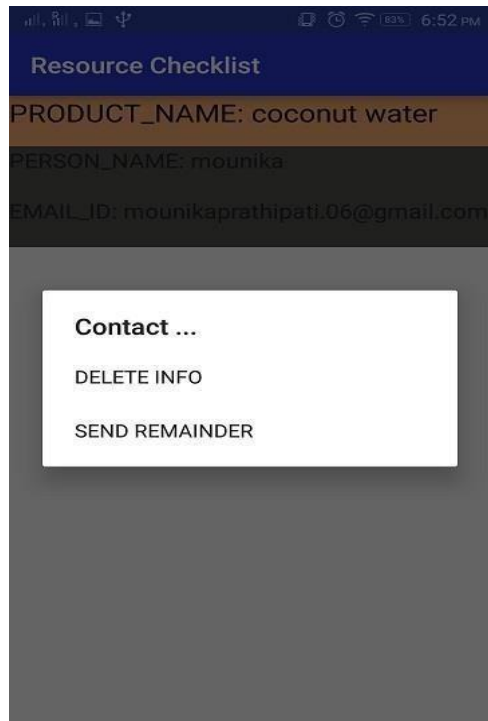


The screenshot shows a mobile application interface with a blue header bar containing the title 'Resource Checklist' and a search icon. Below the header is a list of four items, each in a light gray row. Each row contains a checkbox, a status label 'Pending' in red, a description of the item, the name 'mouni', and a date '04/29/2017'. The description for the first three items is 'Doritos Jacked Ranch Dipped Hot Wings Flavored Tortilla Chips, 3.125 oz' and 'Frito-Lay, Inc.'. The fourth item's description is partially visible as 'Doritos Jacked Ranch'.

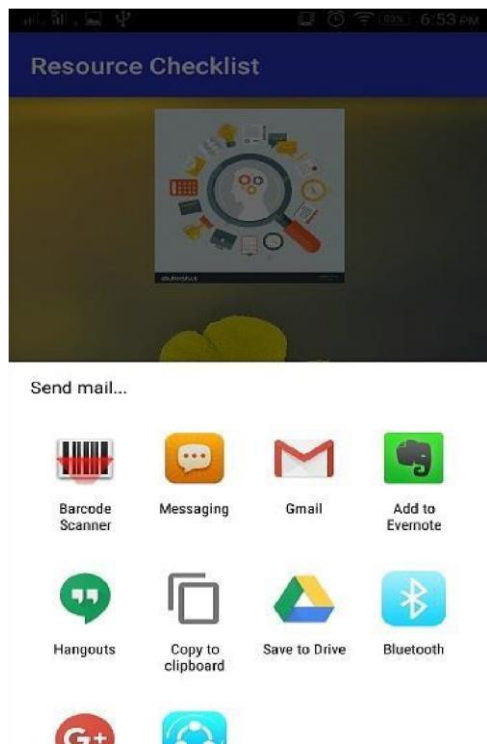
<input type="checkbox"/>	Pending	Doritos Jacked Ranch Dipped Hot Wings Flavored Tortilla Chips, 3.125 oz Frito-Lay, Inc.	mouni	04/29/2017
<input type="checkbox"/>	Pending	Doritos Jacked Ranch Dipped Hot Wings Flavored Tortilla Chips, 3.125 oz Frito-Lay, Inc.	mouni	04/29/2017
<input type="checkbox"/>	Pending	Doritos Jacked Ranch Dipped Hot Wings Flavored Tortilla Chips, 3.125 oz Frito-Lay, Inc.	mouni	04/29/2017
<input type="checkbox"/>	Pending	Doritos Jacked Ranch		

Select an entry to send reminder:

Resource Checklist

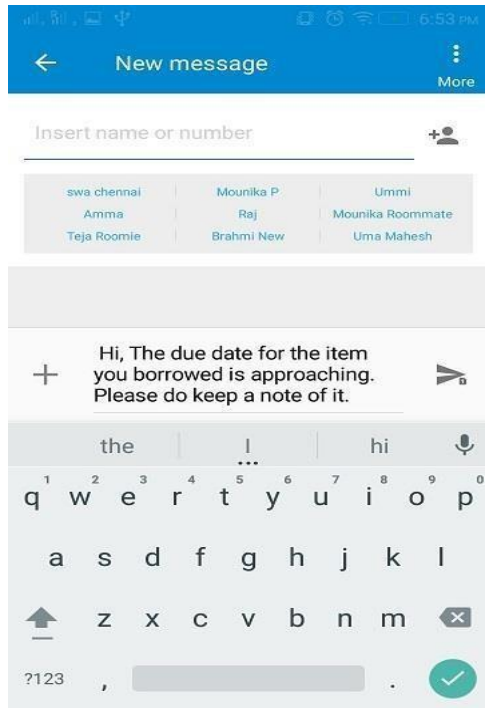


Sending Reminder:

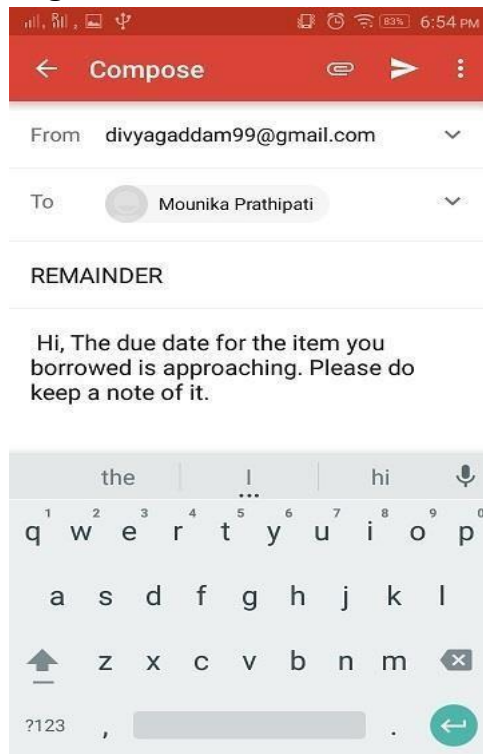


Sending message:

Resource Checklist



Sending email:



Deployment:

Resource Checklist

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:

API search and price comparison logic code contribution – Entire Team

- Manual entry of details
Contributor – Swathi Jasthi
Time taken – 20 hours
Contribution – 25%
- Population of details automatically after Barcode scan
Contributor – Mounika Prathipati
Time taken – 20 hours
Contribution – 25%
- Automatic reminder
Contributor – Divya Gaddam
Time taken – 20 hours
Contribution – 25%
- UI enhancement
Contributor – Uma Maheswara Reddy Mandapati
Time taken – 20 hours
Contribution – 25%

Work to be completed:

- UI enhancement
Contributor – Entire Team
Estimated hours – 80 hours

Bibliography:

<https://developers.google.com/maps/documentation/javascript/get-api-key>
https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJ0zG4r4k_zLKrnxi

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<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://creatly.com/>
<https://github.com/KeepSafe/android-resource-remover>