



Resource Checklist

By

Team Name – Decoders

Team No# 20

Swathi Jasthi

Divya Gaddam

Mounika Prathipati

Uma Maheswara Reddy Mandapati

COMP-SCI 5551 Adv Software Engineering
University of Missouri Kansas City
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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.

Resource Checklist

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:

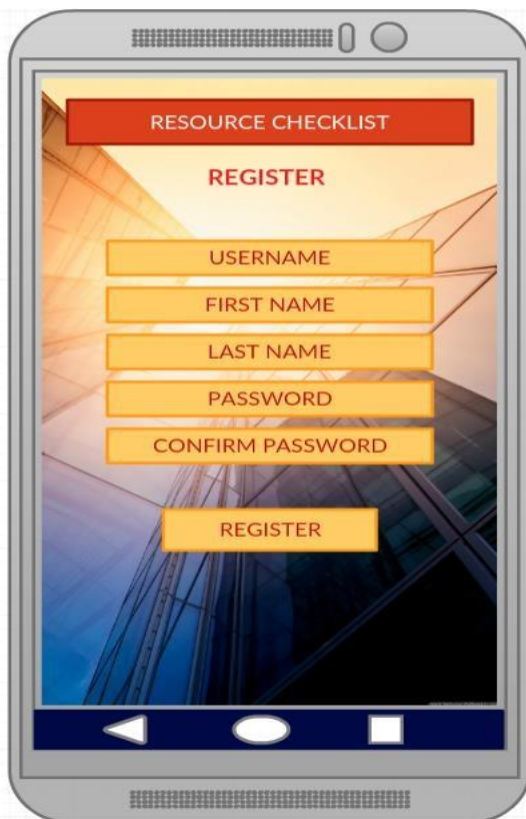
Wireframes:

Login Page:

Resource Checklist

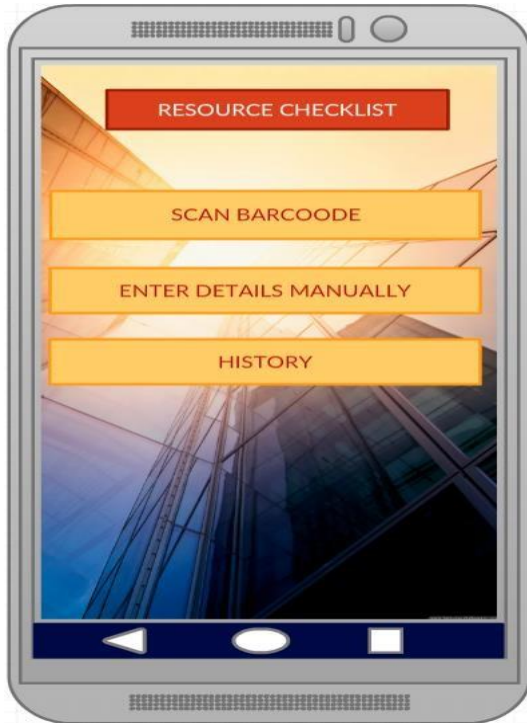


Register Page:



Resource Checklist

Home Page:



Manual Entry:

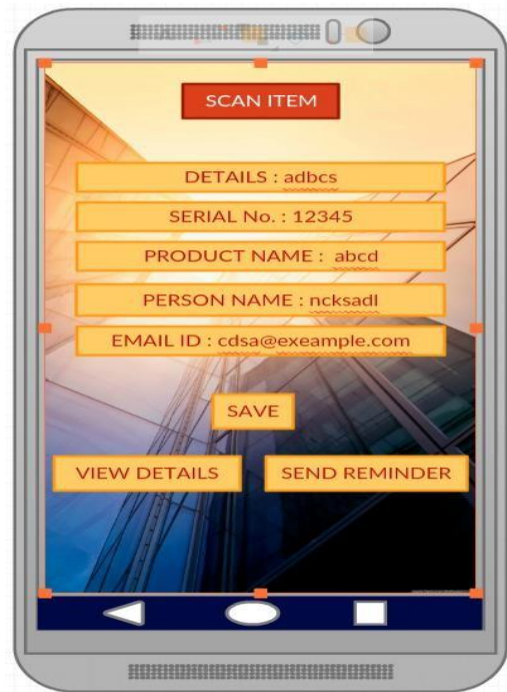


Resource Checklist

Product Search:



Scan Item:



Resource Checklist

History:

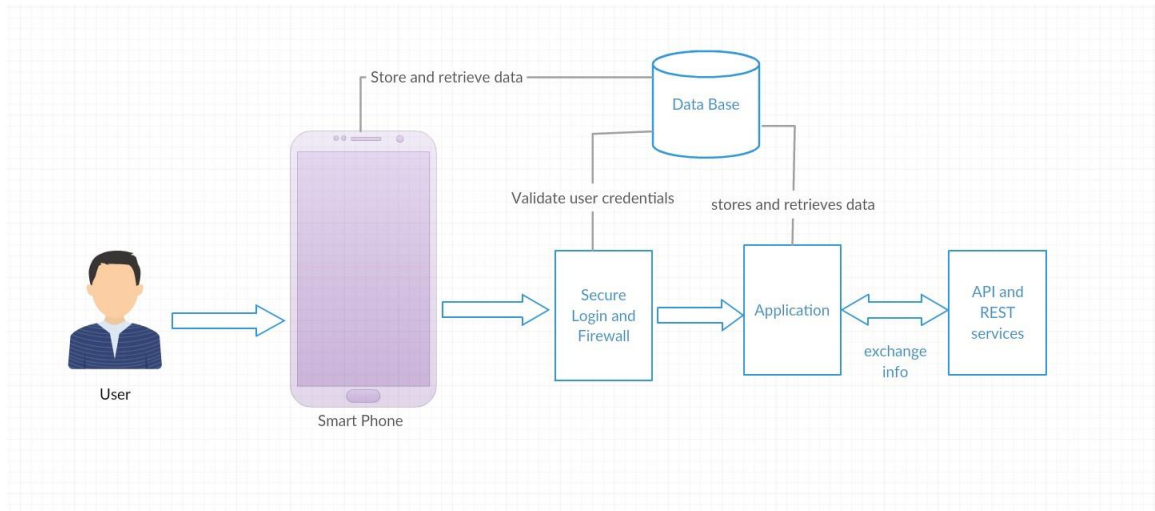


Selecting an item from history:

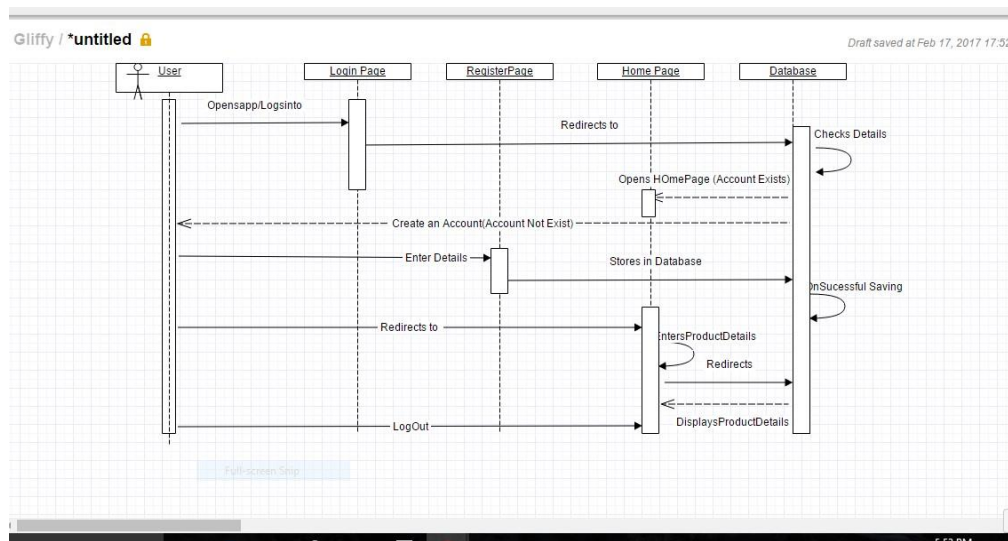


Resource Checklist

Architecture Diagram:

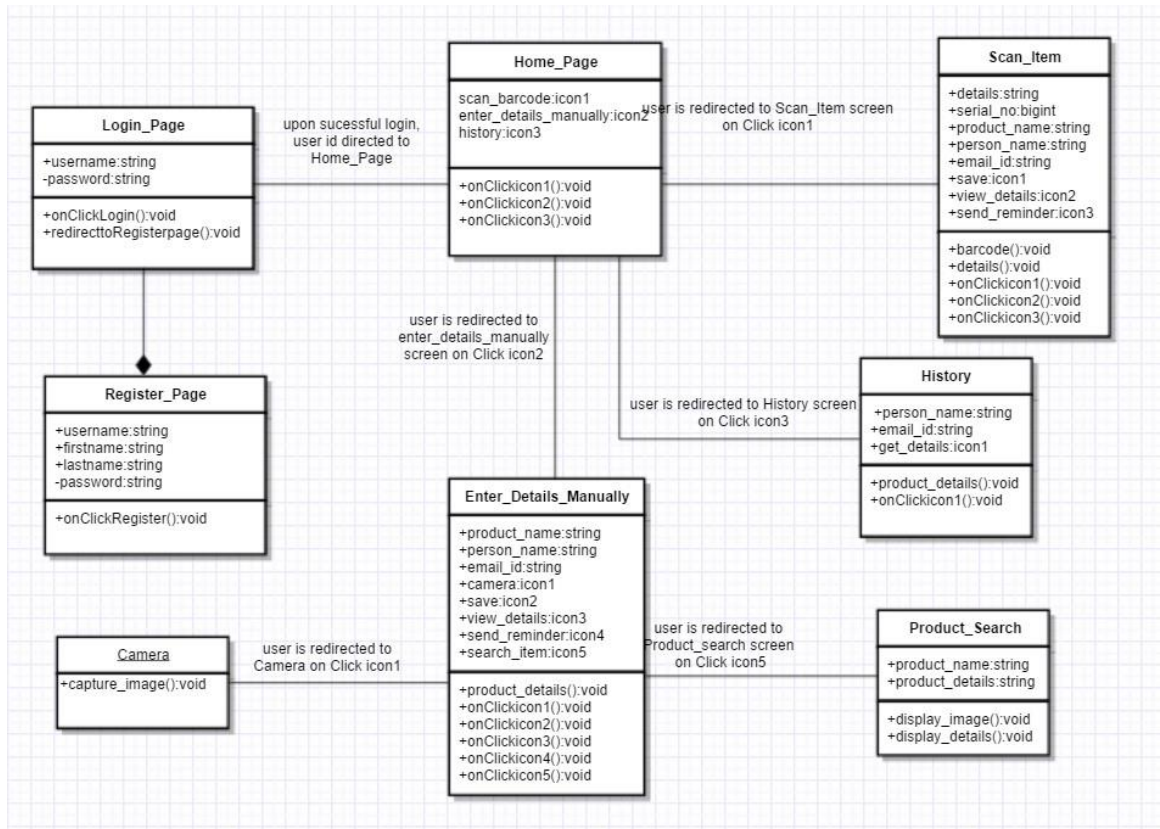


Sequence Diagram:



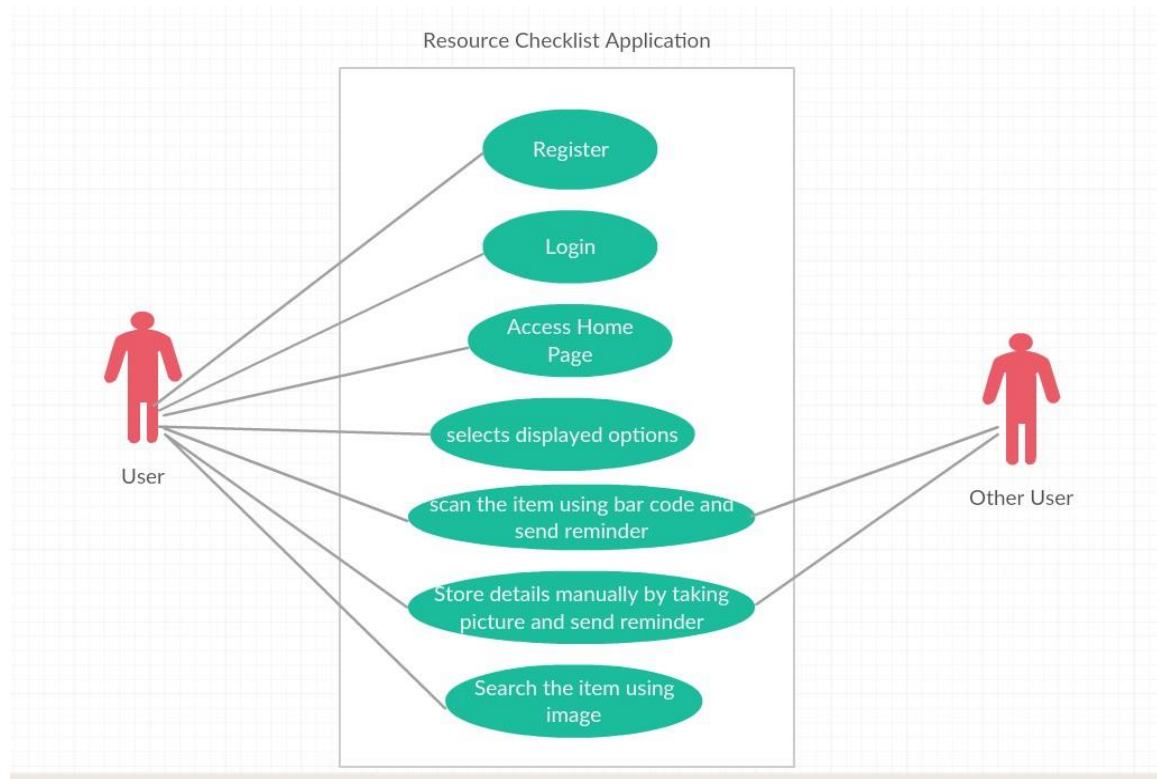
Resource Checklist

Class Diagram:



Resource Checklist

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.
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.

Resource Checklist

ISSUES:

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Code Issues 8 Pull requests 0 Boards Reports Projects 0 Wiki

Filters is:issue is:open Labels Milestones New issue

8 Open	8 Closed	Author	Labels	Milestones	Assignee	Sort
Update class, sequence, architecture diagrams enhancement 2	#16 opened 17 minutes ago by MounikaPrathipati	Increment 2	New Issues			
Integrating and testing new changes enhancement 5	#15 opened 18 minutes ago by MounikaPrathipati	Increment 2	New Issues			
Add wireframes and mockups enhancement 2	#14 opened 19 minutes ago by MounikaPrathipati	Increment 2	New Issues			
create user stories and testcases enhancement 3	#13 opened 20 minutes ago by MounikaPrathipati	Increment 2	New Issues			
Enhance User Interface enhancement 3	#12 opened 21 minutes ago by MounikaPrathipati	Increment 2	In Progress			
Add facebook api - login with facebook enhancement 3	#11 opened 21 minutes ago by MounikaPrathipati	Increment 2	New Issues			
Update register page enhancement 3	#10 opened 23 minutes ago by MounikaPrathipati	Increment 2	In Progress			
Updating Login page enhancement 2	#9 opened 24 minutes ago by MounikaPrathipati	Increment 2	Done			

ProTip! Exclude everything labeled bug with -label:bug.

BOARD:

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Code Issues 8 Pull requests 0 Boards Reports Projects 0 Wiki

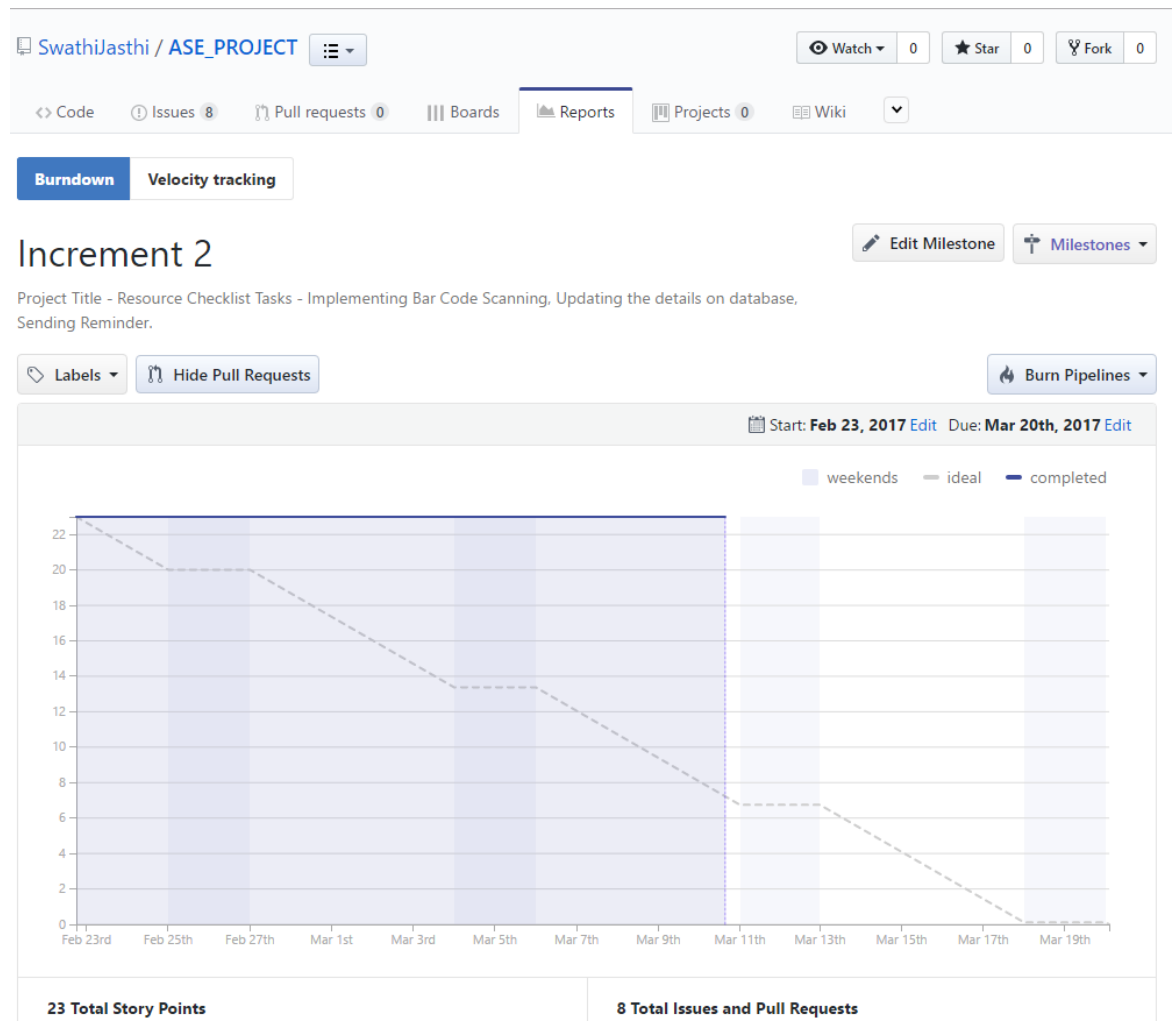
View Repos (1/1) Show one Labels Milestones Assignees Epics

Search (/) New Issue +

New Issues 3	Icebox 0	Backlog 0	In Progress 2	Done 1	Review/QA 0
ASE_PROJECT #11 Add facebook api - login with facebook Increment 2 enhancement			ASE_PROJECT #10 Update register page Increment 2 enhancement	ASE_PROJECT #9 Updating Login page Increment 2 enhancement	
ASE_PROJECT #13 create user stories and testcases Increment 2 enhancement			ASE_PROJECT #12 Enhance User Interface Increment 2 enhancement		
ASE_PROJECT #14 Add wireframes and mockups Increment 2 enhancement					
ASE_PROJECT #15 Integrating and testing new changes Increment 2 enhancement					
ASE_PROJECT #16					

Resource Checklist

BURNDOWN CHART:



Resource Checklist

Testing:

Unit Testing:

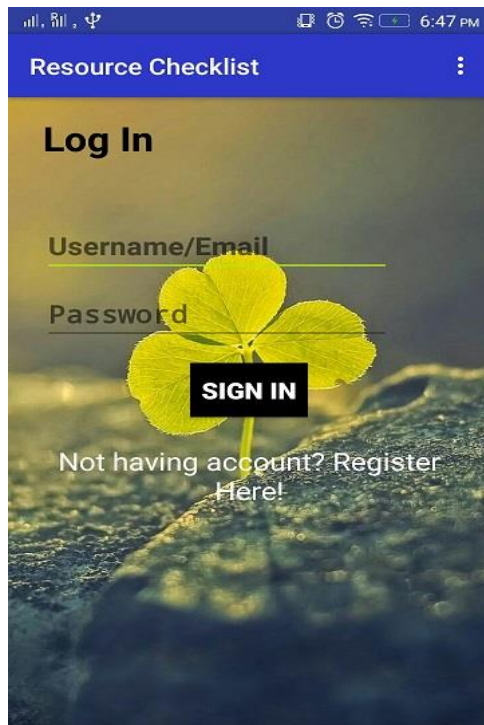
User Story Number	Test Case Description	Expected Result	Test Result
3	Enter invalid mail ID and valid password	Error message should come as "invalid credentials"	PASS
3	Enter valid mail ID and invalid password	Error message should be displayed as "invalid credentials"	PASS
3	Enter invalid mail ID and 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
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:

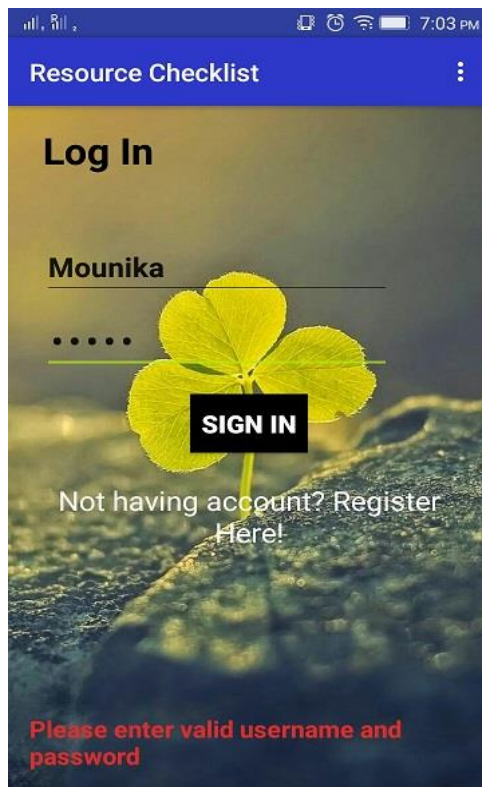
The “Resource Checklist” application has implemented in Android Studio onto an Android mobile. Below screenshots describes the flow

Login Page:



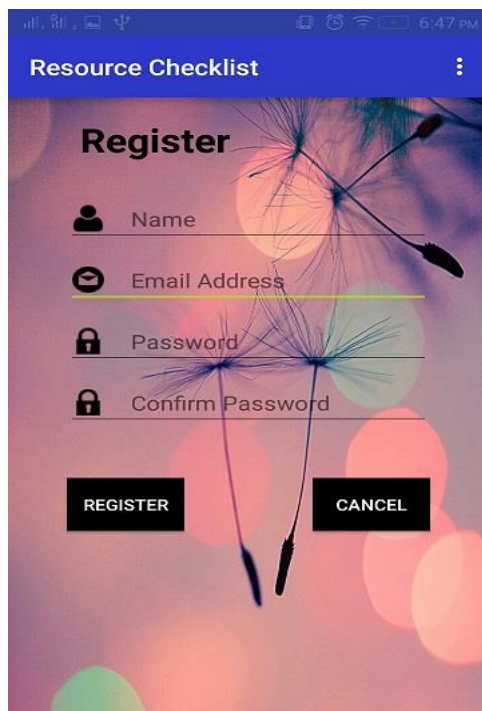
Invalid Credentials:

Resource Checklist



The screenshot shows the 'Log In' screen of the 'Resource Checklist' app. The background is a close-up of a green four-leaf clover on a textured surface. At the top, the app title 'Resource Checklist' is in a blue header. Below it, the title 'Log In' is displayed. There are two input fields: the first contains the username 'Mounika' and the second contains five dots for a password. A black 'SIGN IN' button is centered over the password field. Below the button, the text 'Not having account? Register Here!' is visible. At the bottom, a red error message reads 'Please enter valid username and password'. The status bar at the top shows the time as 7:03 PM.

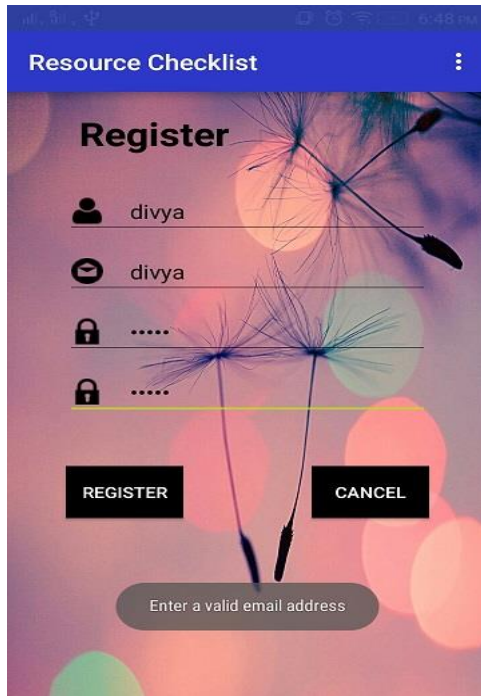
Registration Page:



The screenshot shows the 'Register' screen of the 'Resource Checklist' app. The background features a dandelion seed head against a bokeh of colorful lights. The app title 'Resource Checklist' is in the blue header. The title 'Register' is prominently displayed. There are four input fields, each with an icon: a person icon for 'Name', an envelope icon for 'Email Address', a lock icon for 'Password', and another lock icon for 'Confirm Password'. At the bottom, there are two black buttons: 'REGISTER' and 'CANCEL'. The status bar at the top shows the time as 6:47 PM.

Resource Checklist

Invalid email-id:



The screenshot shows a mobile application interface for a 'Resource Checklist'. At the top is a blue header with the text 'Resource Checklist' and a three-dot menu icon. Below the header is a section titled 'Register'. It contains four input fields: a name field with 'divya', an email field with 'divya', and two password fields, each with five dots. The email field is highlighted with a yellow border, and a red error message 'Enter a valid email address' is displayed below it. At the bottom of the form are two buttons: 'REGISTER' and 'CANCEL'.

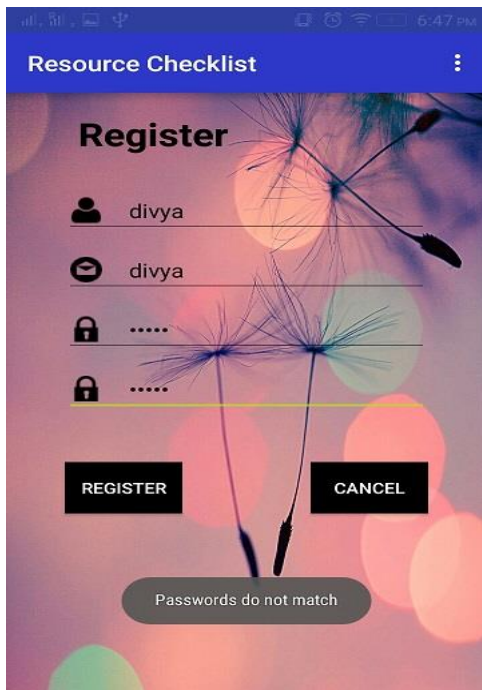
Invalid Password:



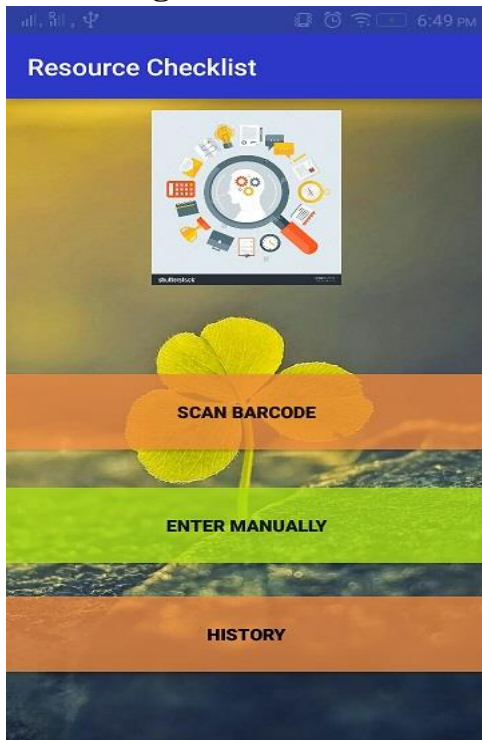
The screenshot shows the same 'Register' form as above. The first password field is highlighted with a yellow border, and a red error message 'Password should be atleast 4-6 alphanumeric' is displayed below it. The other fields and buttons remain the same.

Resource Checklist

Password mismatch:



Home Page:



Resource Checklist

SCAN ITEM:



Resource Checklist

SCAN ITEM

Details:

Serial No:

PRODUCT_NAME

PERSON_NAME

EMAIL_ID

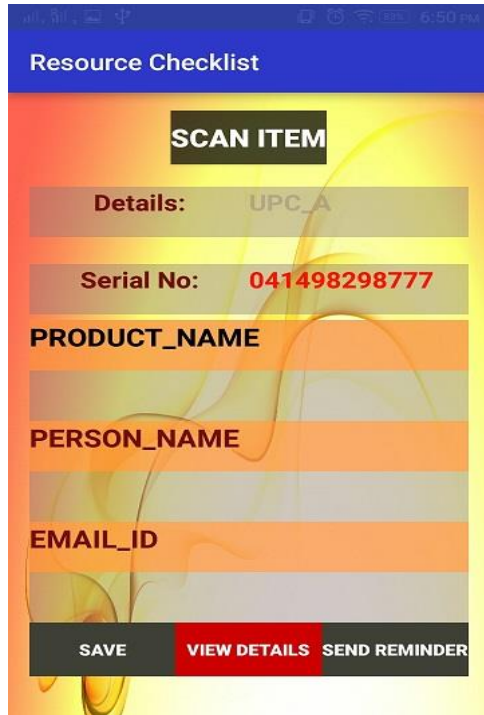
SAVE VIEW DETAILS SEND REMINDER

Scanning Item:



Resource Checklist

Details are populated after scan:



A screenshot of a mobile application titled "Resource Checklist". The app has a blue header bar with the title. Below the header is a yellow background with a black "SCAN ITEM" button. The form contains several fields: "Details:" with the value "UPC_A", "Serial No:" with the value "041498298777" in red, "PRODUCT_NAME", "PERSON_NAME", and "EMAIL_ID". At the bottom, there are three buttons: "SAVE", "VIEW DETAILS" (highlighted in red), and "SEND REMINDER".

Field	Value
Details:	UPC_A
Serial No:	041498298777
PRODUCT_NAME	
PERSON_NAME	
EMAIL_ID	

Adding Borrower Details:



A screenshot of the same mobile application, now showing borrower details. The "PRODUCT_NAME" field is populated with "coconut water", the "PERSON_NAME" field with "mounika", and the "EMAIL_ID" field with "nounikaprathipati.06@gmail.com". The "VIEW DETAILS" button remains highlighted in red.

Field	Value
Details:	UPC_A
Serial No:	041498298777
PRODUCT_NAME	coconut water
PERSON_NAME	mounika
EMAIL_ID	nounikaprathipati.06@gmail.com

Resource Checklist

Details are saved successfully:

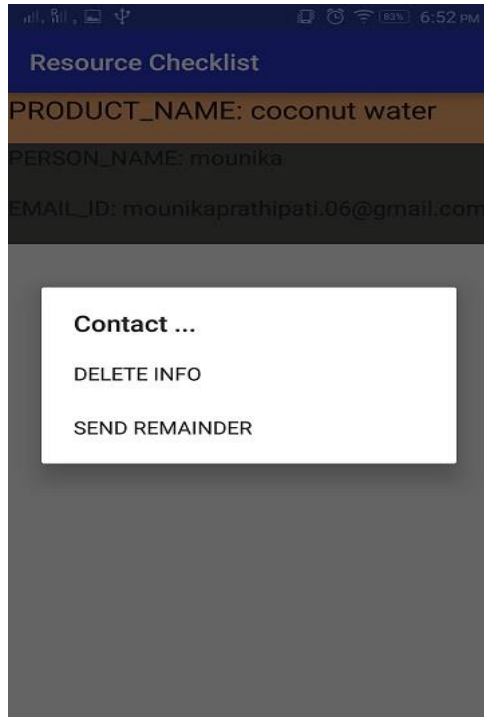
The screenshot shows the 'Resource Checklist' app interface. At the top, there's a blue header with the title 'Resource Checklist'. Below it, a yellow background features a 'SCAN ITEM' button. The form displays the following details: 'Details: UPC_A', 'Serial No: 041498298777', 'PRODUCT_NAME: coconut water', 'PERSON_NAME: mounika', and 'EMAIL_ID: mounikapraphipati.06@gmail.com'. A 'Row number: 1' is shown at the bottom. At the very bottom, there are three buttons: 'SAVE', 'VIEW DETAILS', and 'SEND REMINDER'.

HISTORY:

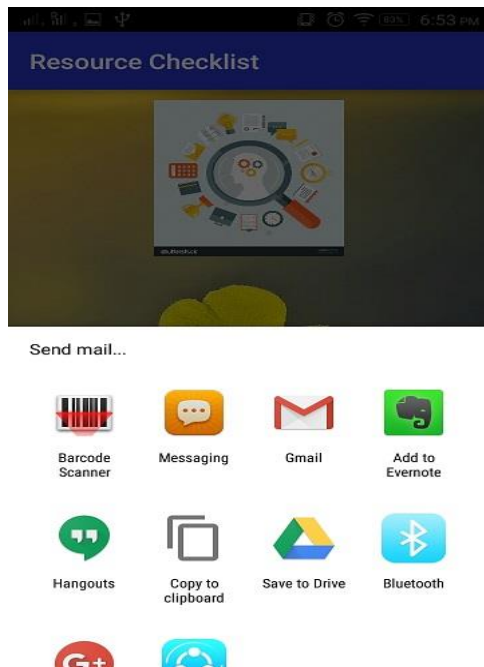
The screenshot shows the 'History' section of the 'Resource Checklist' app. It has a blue header with the title 'Resource Checklist'. Below the header, the history is displayed in a list format: 'PRODUCT_NAME: coconut water', 'PERSON_NAME: mounika', and 'EMAIL_ID: mounikapraphipati.06@gmail.com'. The background is white, and the text is in a dark font.

Resource Checklist

Select an entry to send reminder:

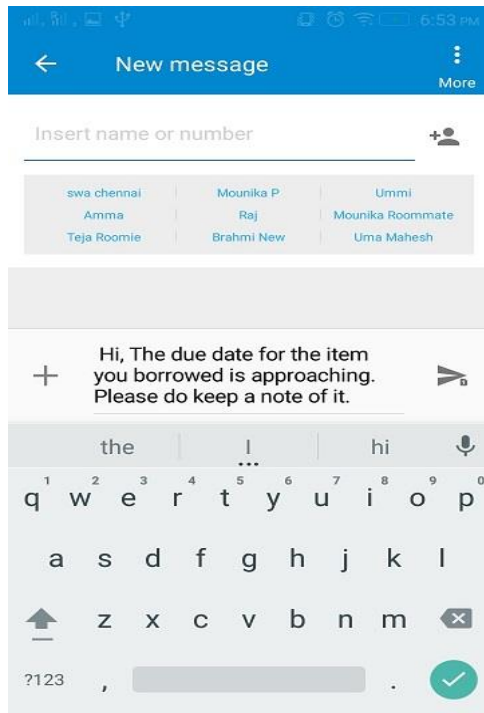


Sending Reminder:

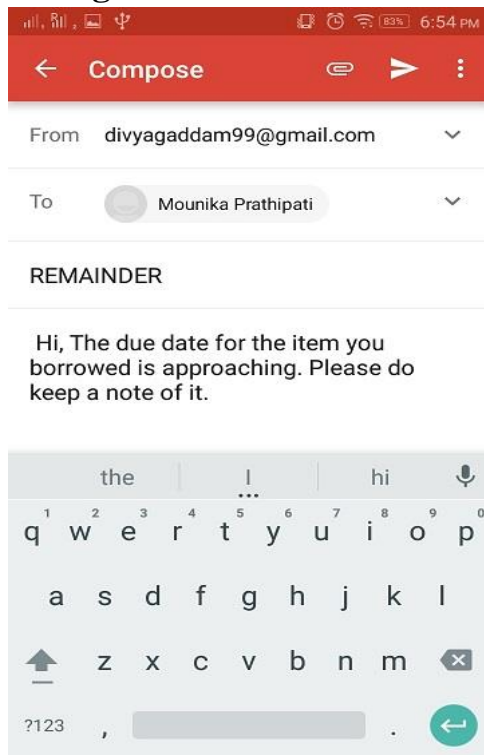


Resource Checklist

Sending message:



Sending email:



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:

- Barcode implementation
Contributor – Uma Maheshwara Reddy Mandapati
Time taken – 20 hours
Contributions – 25%
- Database implementation
Contributor – Mounika Prathipati
Time taken – 20 hours
Contributions – 25%
- History page implementation
Contributor – Swathi Jasthi
Time taken – 20 hours
Contributions – 25%
- UI modification, Layouts, mockups
Contributor – Divya Gaddam
Time taken – 20 hours
Contributions – 25%

Work to be completed:

- Enter details manually
Responsibility – Swathi Jasthi
Estimated hours – 80 hours
- UI modification, adding Facebook login
Responsibility – Mounika Prathipati
Estimated hours – 80 hours

Resource Checklist

- Object detection
Responsibility – Divya Gaddam
Estimated hours – 80 hours
- Linking to database using SQLite
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://creatly.com/>
<https://github.com/KeepSafe/android-resource-remover>