



# 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**  
**Spring – 2016**

# Resource Checklist

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# Project Deployment

### **Introduction:**

To keep track of all the lent items. Search and update the item details to the database. Compare prices of an item scanned from different websites. Buy the product with unbeatable price.

### **How to use the system?**

**Login Page:** First, the user has to login into the application using valid credentials. If the user is not a valid registered user, he need to register by clicking on New User? Register button.

**Register Page:** If the user is new, he has to register by giving valid email address in this page. There is validation for email address, password and confirm password.

**Home Page:** After a successful login, the user is navigated to home page. Here the user had to scan the item using “scan” button. If the scan is successful, the item details are automatically populated in the fields of Item Description and Item Brand. The borrower name and his email address has to be filled in the respective fields and select the date up to where the remainder has to be set and then click on “set remainder”.

**History Page:** If you click on the timer symbol on home page you could be navigated to history page. Here you can find the list of all the items that you have lent. Here search feature is implemented using the borrower name or his email address. You can keep the returned items as checked or you can delete a particular item from the list.

**Price comparison:** If the borrower likes the item and he wish to buy the item he can click on price compare button in the Home Page. Then you can be navigated to price comparison page. Here the list of websites where the item is available are displayed. You can click on any website name to navigate to that website and buy the item from that website.

### **Error Recognition and Handling:**

1. In the login page, if the user enters incorrect username name or password, a error message will be displayed saying “incorrect email ID or password”.
2. In the register page, if the user enters an invalid email address an error is displayed saying “invalid email address”. If the password and confirm password are not same then error is displayed saying “passwords do not match”. If the password length is less than 4 letters then an error is displayed saying “password should be at least 4 characters length”.

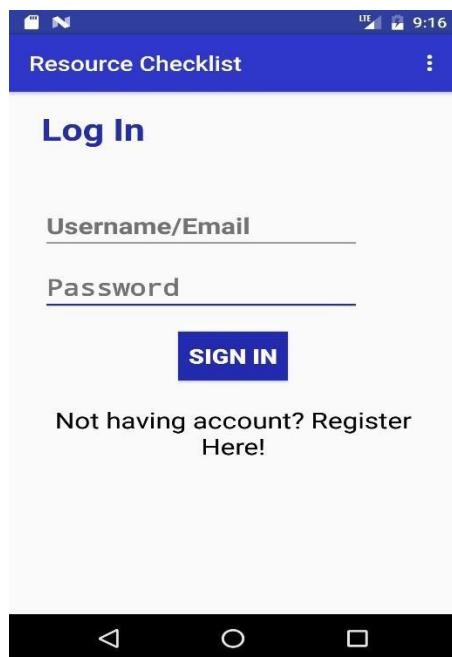
## Resource Checklist

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3. If the item barcode is not scanned correctly, then message will be displayed saying "item cannot be scanned". In this case item details has to be entered manually.

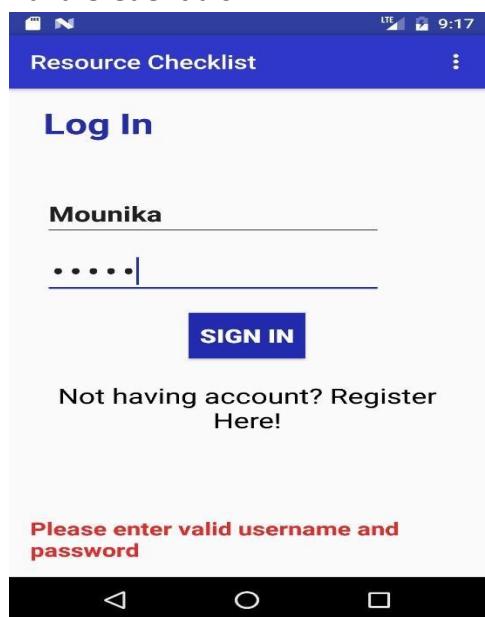
### Sample interaction accompanied with screen dumps:

**Login Page:** Welcome screen



### Invalid credentials:

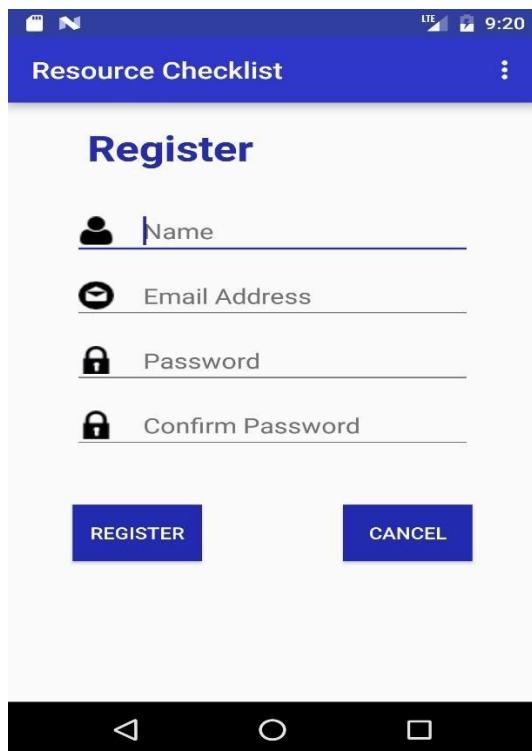
**Invalid Credentials:**



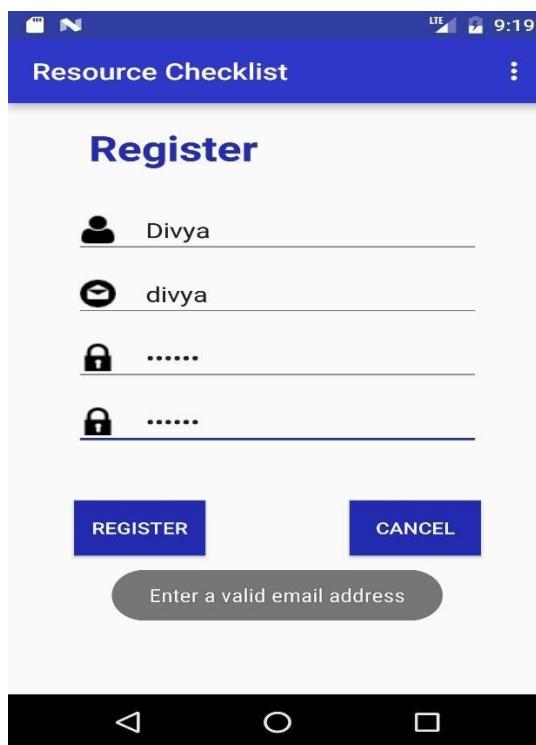
# Resource Checklist

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## Registration Page:



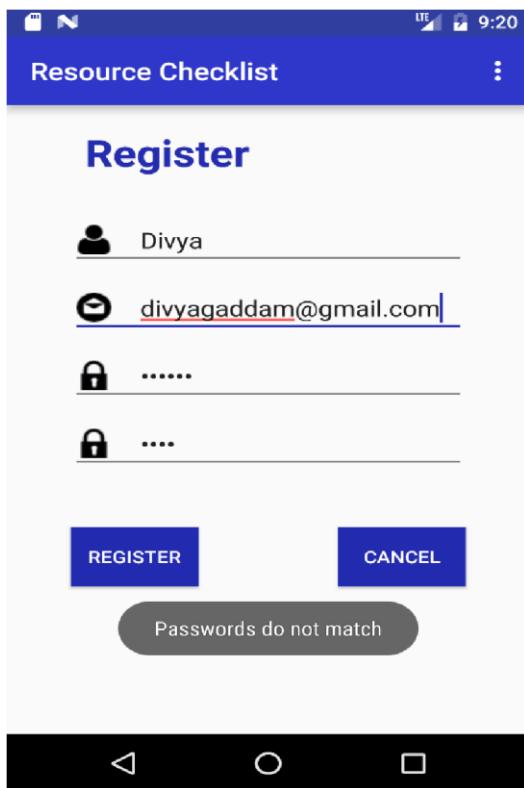
Invalid email-id:



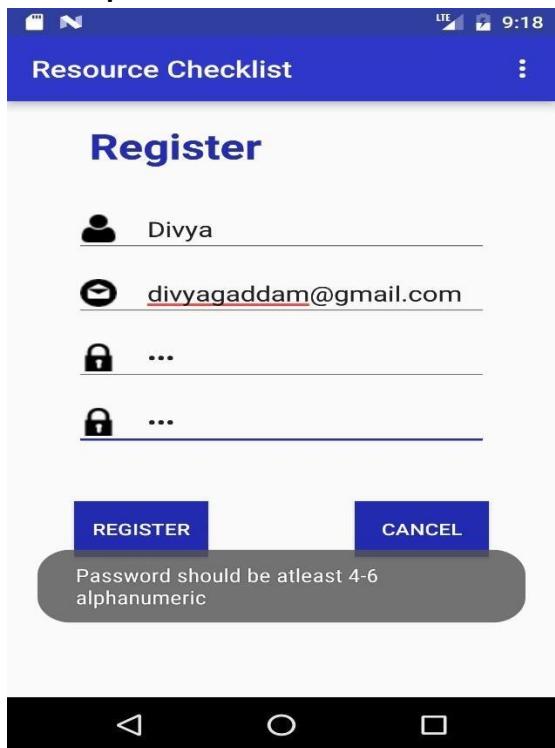
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**Password mismatch:**



**Invalid password:**



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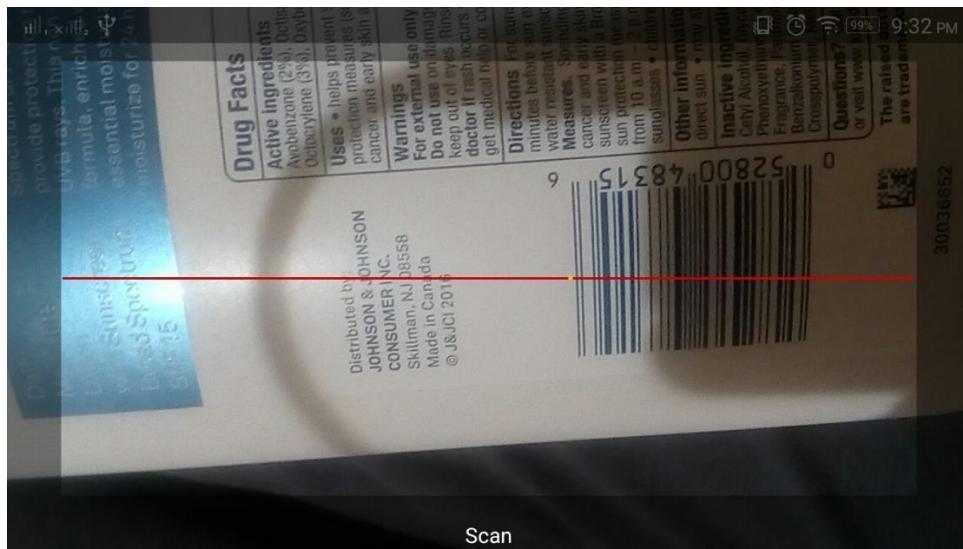
## Home Page:

The screenshot shows a mobile application titled "Resource Checklist". At the top, there are several status icons: signal strength, battery level, and time (9:30 PM). Below the title is a large blue button labeled "SCAN". The main area contains form fields with the following data:

Item Name	Lubriderm Daily Moisture Lotion
Brand	Johnson & Johnson
Borrower	div
E-MAIL	div@gmail.com
Due Date	10-4-2017

At the bottom of the form is a grey button labeled "SET REMAINDER".

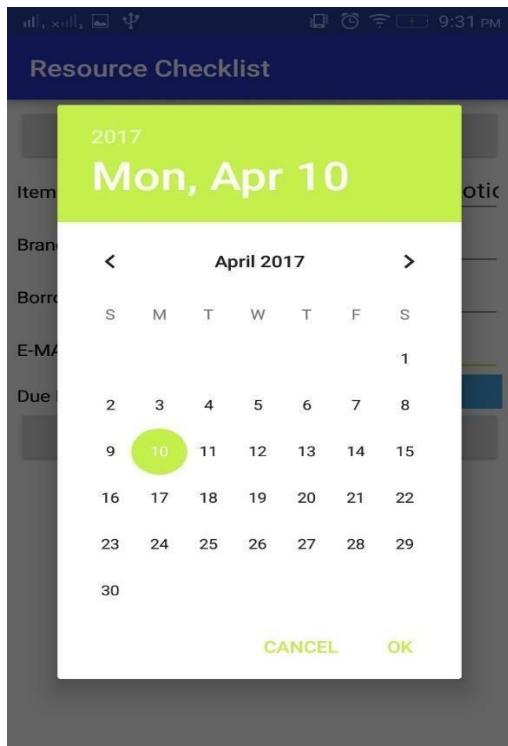
## Scanning Item:



# Resource Checklist

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Calendar option for due date:



Price Comparison:

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

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**Redirecting to website:**



Lubriderm Daily Moisture  
Lotion Shea + Relaxing  
Lavender Jasmine 16.0 fl oz



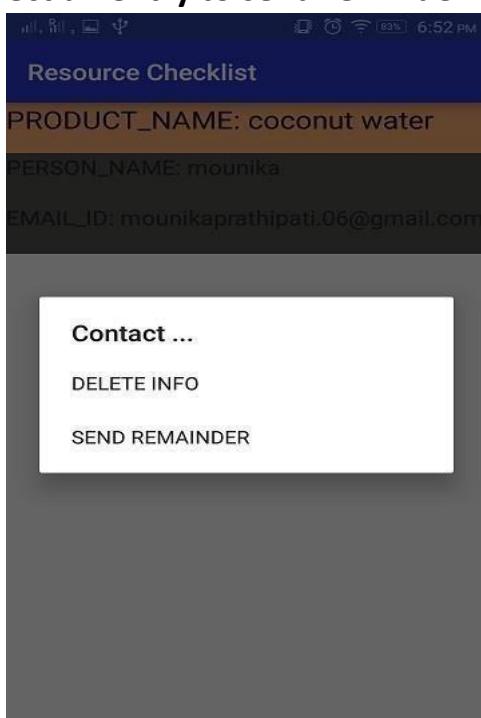
---

## HISTORY:

## Resource Checklist



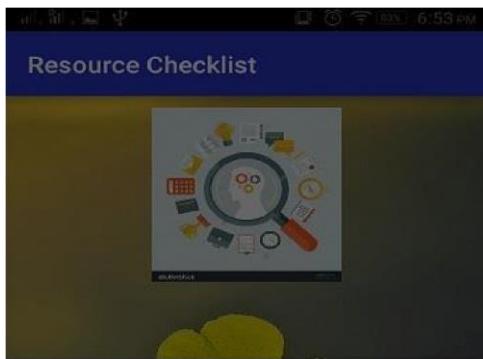
## Select an entry to send reminder:



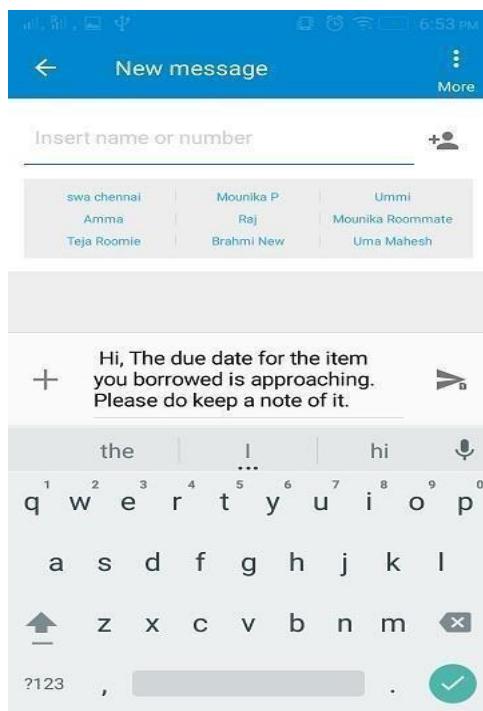
# Resource Checklist

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## Sending Reminder:



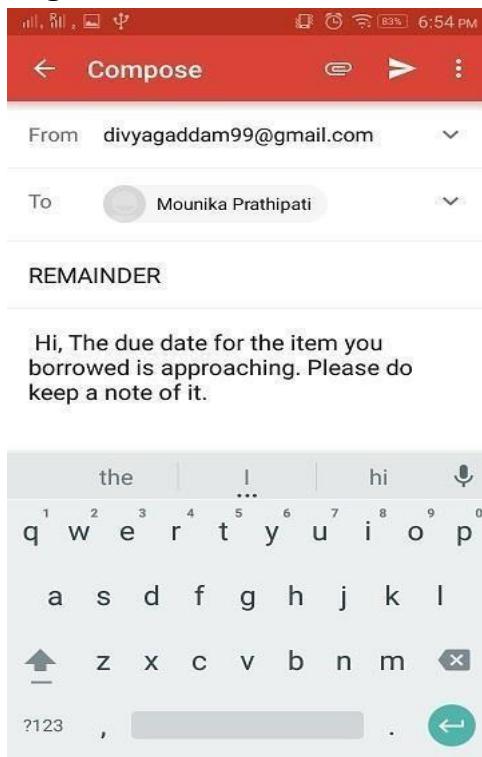
## Sending message:



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## Sending email:



## List of known bugs and deficiencies:

1. In the Home page, if there is low light while scanning the item, the item barcode may not be scanned properly. In this case, we have to adjust the brightness of light.
2. In any page, if the input format is incorrect, the system may not respond properly. For example, in the text field if you give image as input, the application cannot handle this kind of situations. So, always valid inputs must be given.

## Project management:

### Project management report:

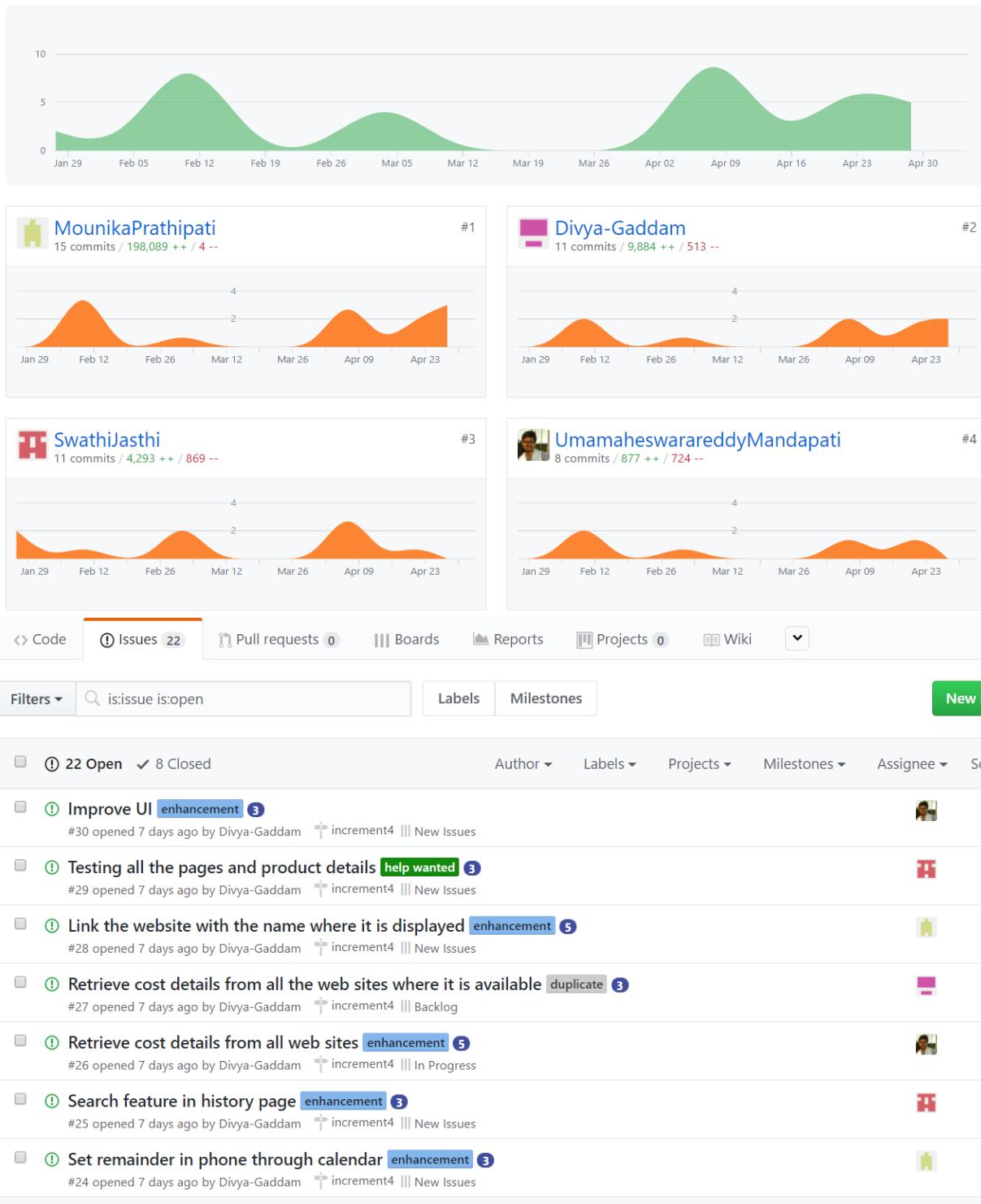
We have used github for project management in agile methodology. The screenshots for burn down charts for each increment are included in the report of each increment.

The task management is accomplished by assigning issues to each person for the plan of increment.

Agile website link for task management is:

[https://github.com/SwathiJasthi/ASE\\_PROJECT/issues](https://github.com/SwathiJasthi/ASE_PROJECT/issues)

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## Final project evaluation:

- Our project satisfies the original requirements. We are completely satisfied with our design process as we have accomplished the price comparison task assigned to us but we might have extended our project to object detection.
- Agile process is very helpful as we can incorporate the changes very easily. We would use the agile process again in the increment process as scrum model.
- We had strictly adhered to the project schedule.
- The real management structure in the group is like one person is assigning the tasks and by the submission date all the persons will be accomplishing their tasks. It is like the structure that we have planned.
- There is no problem in our group in getting each member do his/her work.
- If this were a real project, we could have improved the UI and implemented the object detection



# **Resource Checklist**

(Project Proposal and Plan)

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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 particular item which he is lending. The reminder in our application will show you that information also.

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- 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.

## Related Work:

We are taking the below project as a reference

<https://github.com/graceeunbekim/listme>

<https://github.com/NativeScript/sample-Groceries>

<https://github.com/altron42/tripLOG-test>

## Backup Project:

**Health care manager** – There are two tasks this will do. They are the emergency alarm and healthcare management system. Initially the person i.e. patient should register for the first time by providing his/her user-id, password, name and mobile number. After signup, user must provide details of friends and family members/Doctor such as their name and mobile number to whom the emergency alert must be sent during an emergency. Then the user can enter name of the problem he/she has, to suggest prescription. For example, if the user is suffering from fever then user may enter symptom as fever and must provide description for that like headache, nausea and so on. Based on the symptom details, user would get prescription from the doctor. User can also go through the tips that are provided by the doctor and under emergency like hazards the user can send alert to his friends.

## Bibliography:

<https://developers.google.com/maps/documentation/javascript/get-api-key>

## Resource Checklist

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[https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k\\_zLKrnxl](https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k_zLKrnxl)

<https://developer.android.com/training/basics/firstapp/creating-project.html>

<https://www.udacity.com/course/android-development-for-beginners--ud837>



# Resource Checklist

(Increment - 1)

By

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# Project Goal and Objectives:

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- 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.

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## **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:**

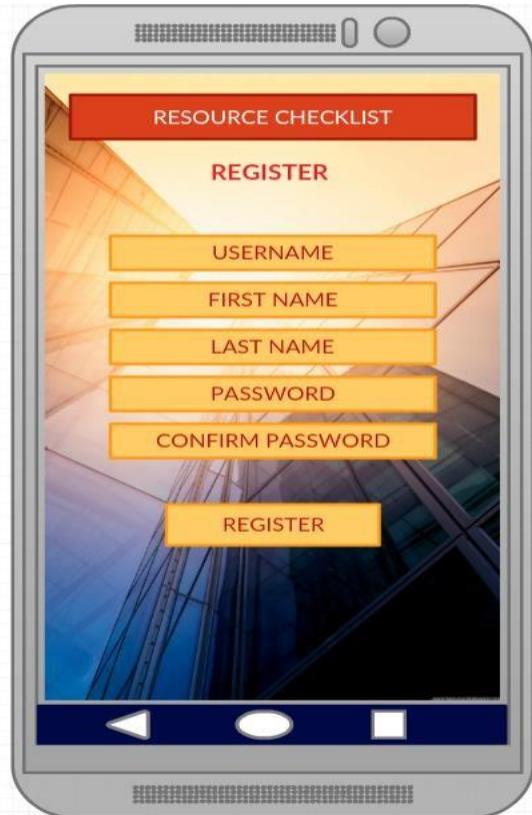
##### **Login Page:**

# Resource Checklist

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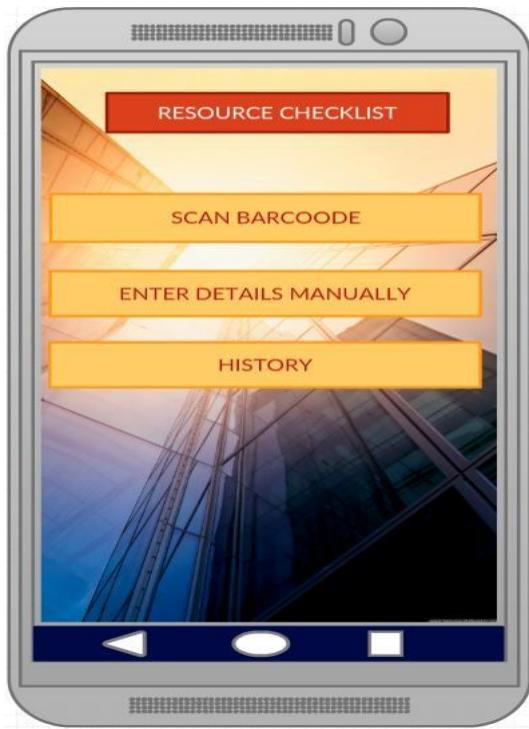
**Register Page:**



**Home Page:**

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## Manual Entry:



## Product Search:

## Resource Checklist

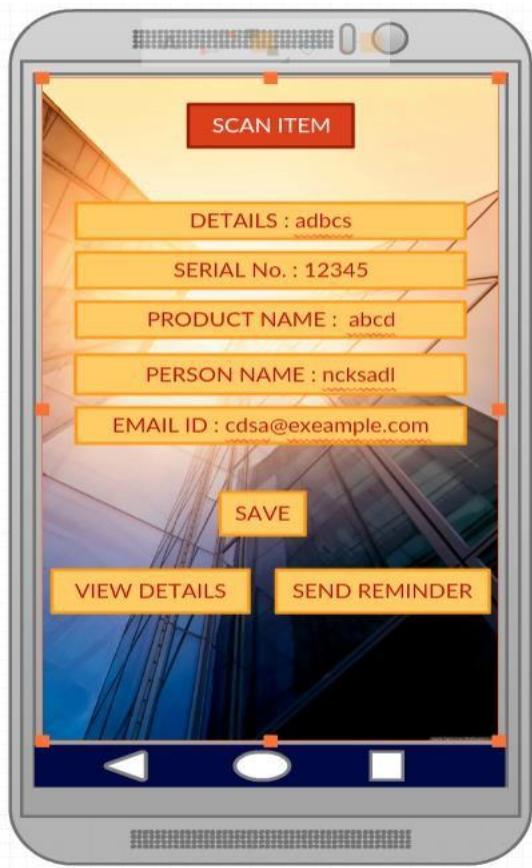
---



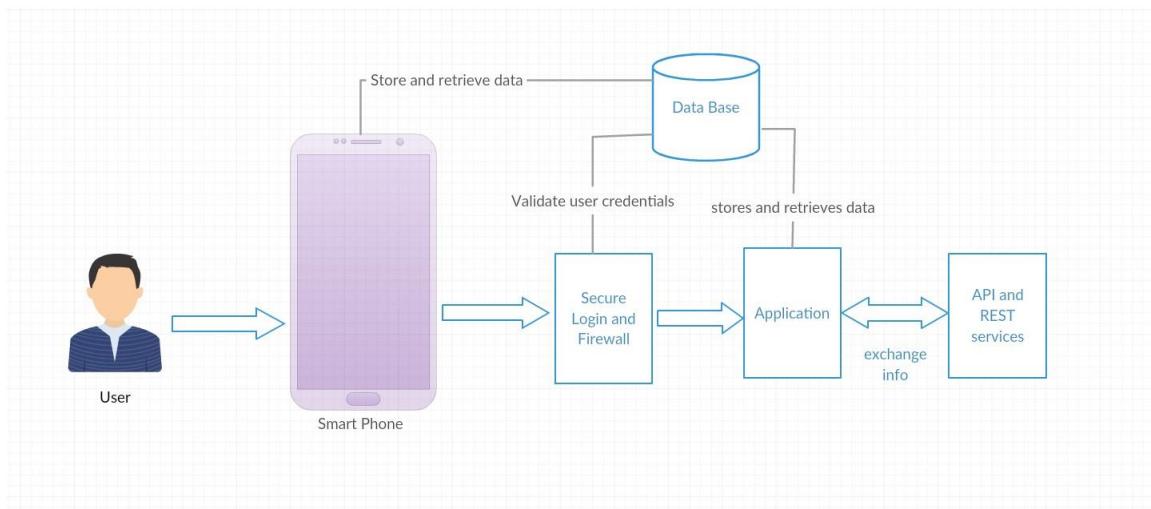
# Resource Checklist

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## Scan Item:

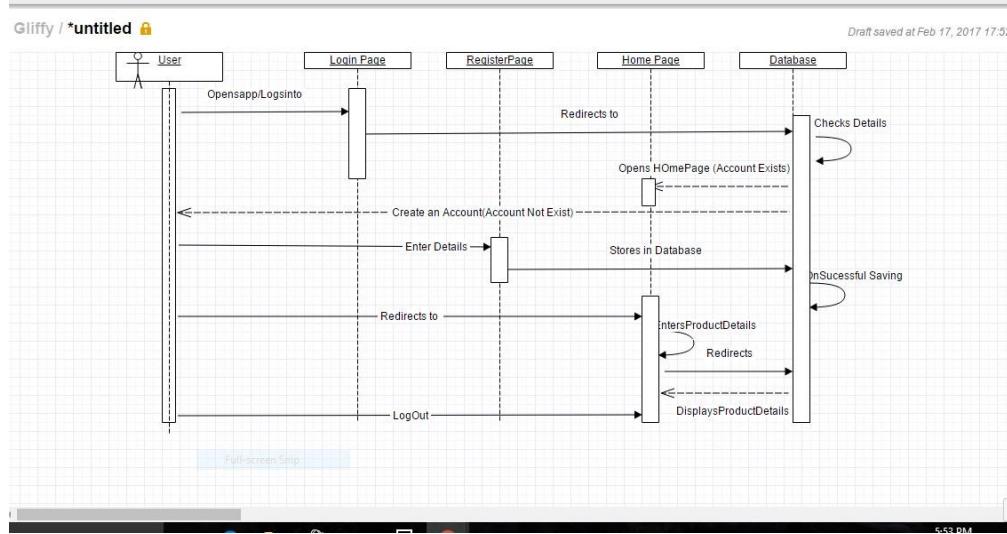


## Architecture Diagram:

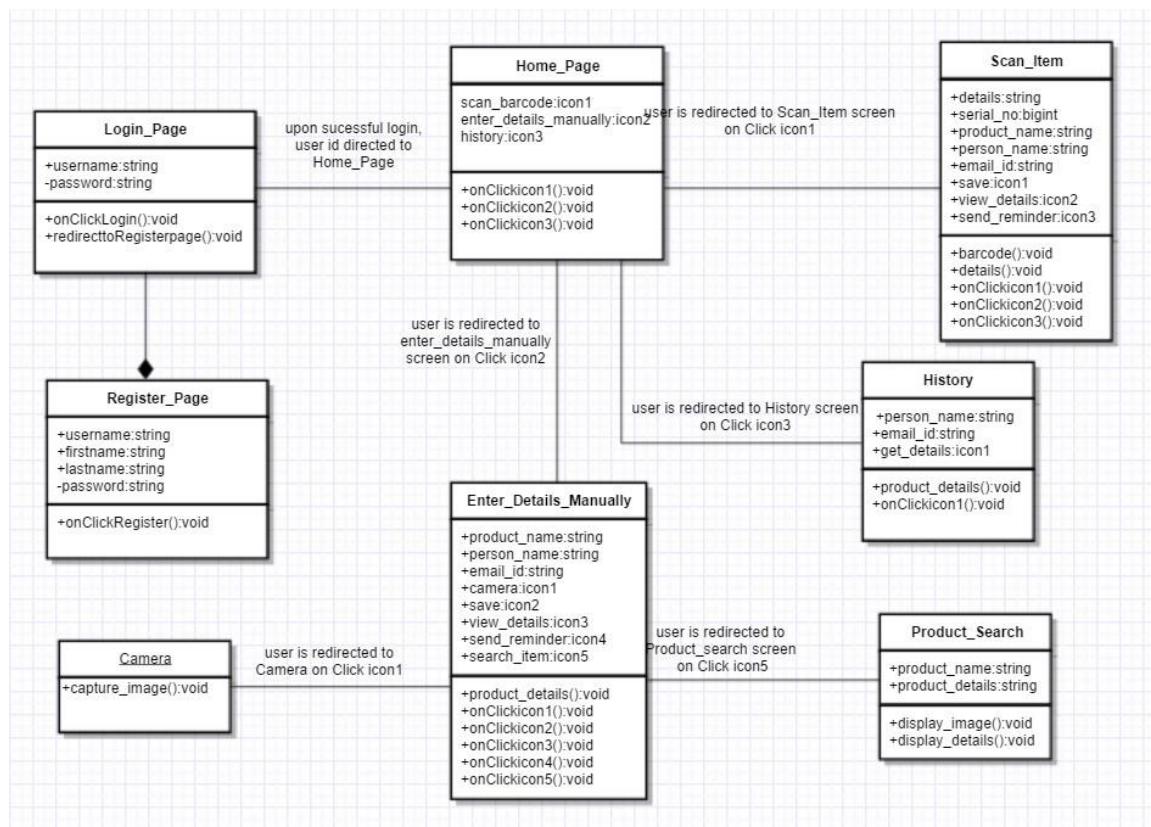


## Sequence Diagram:

# Resource Checklist



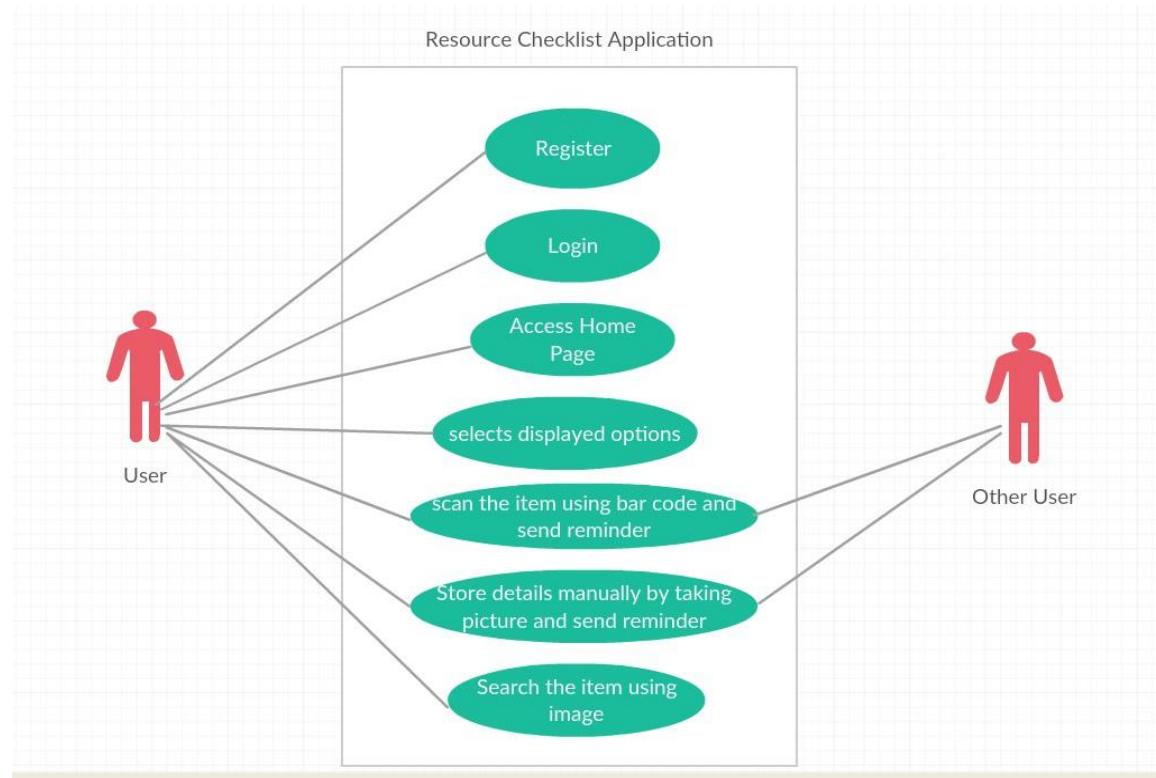
## Class Diagram:



# Resource Checklist

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## 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 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:

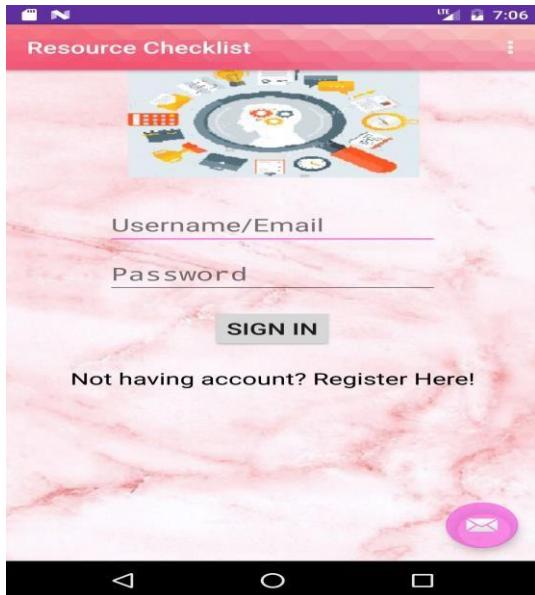
User Story Number	Test Case Description	Expected Result	Test Result
3	Enter invalid mail ID and valid password	Error message should come as “invalid credentials”	PASS
3	Enter valid mail ID and invalid password	Error message should be displayed as “invalid credentials”	PASS
3	Enter invalid mail ID and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

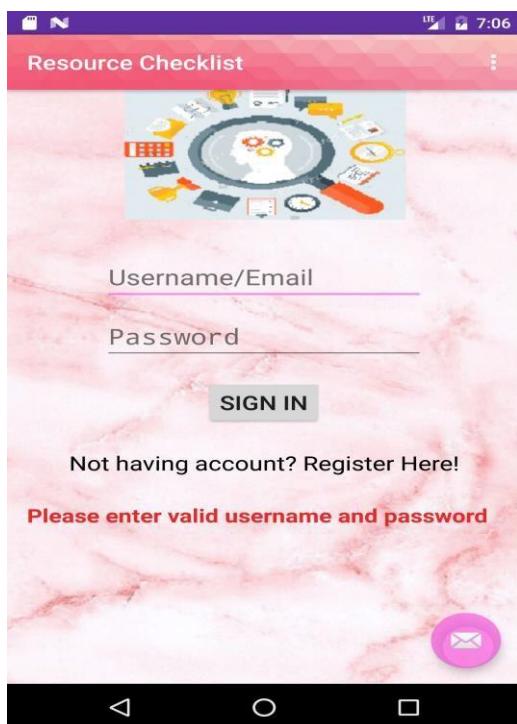
The “Resource Checklist” application has implemented in Android Studio onto an emulator. Below screenshots describes the flow **Login Page:**

# Resource Checklist

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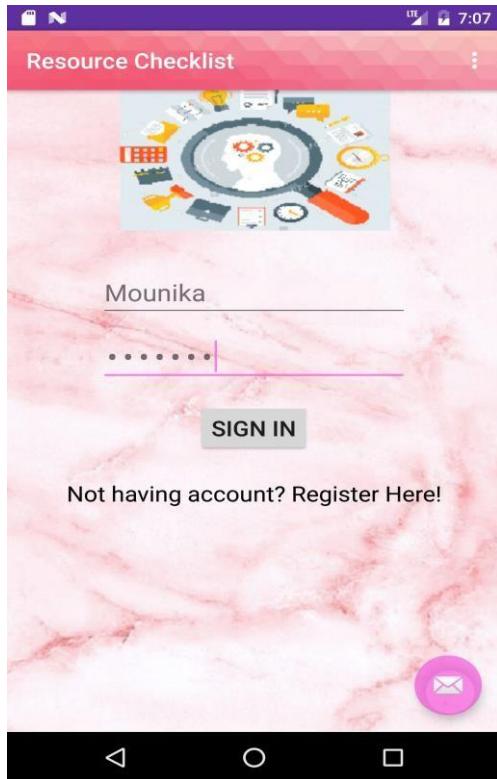
## Invalid Credentials:



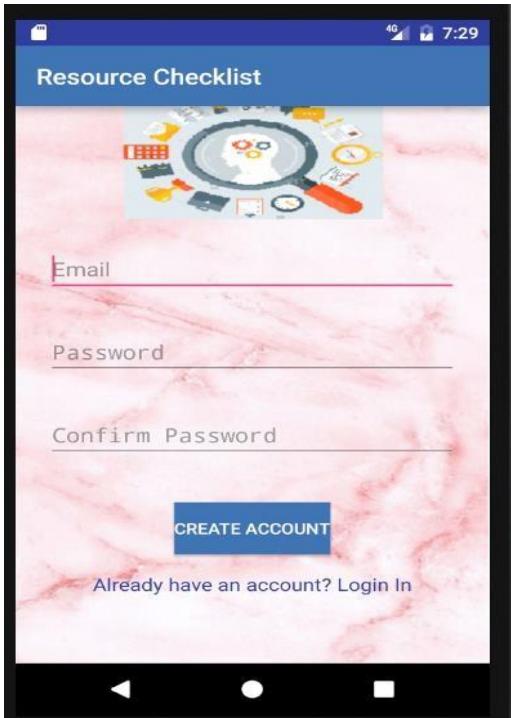
## Successful Login:

# Resource Checklist

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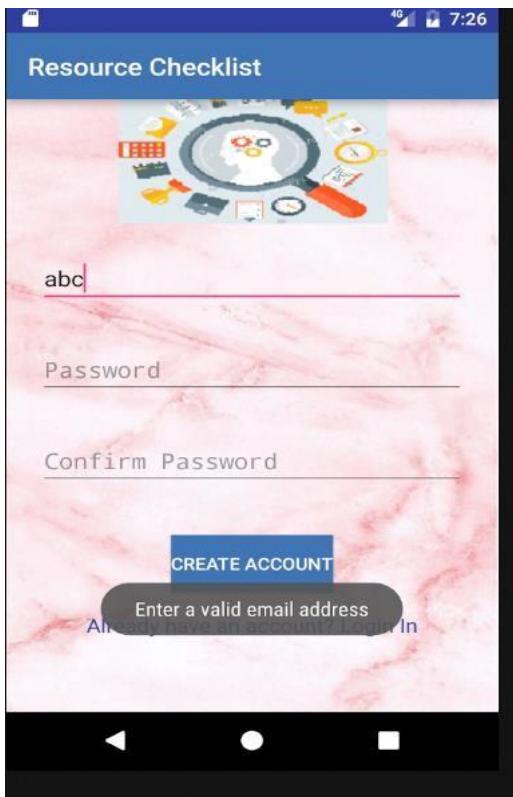
## Registration Page:



# Resource Checklist

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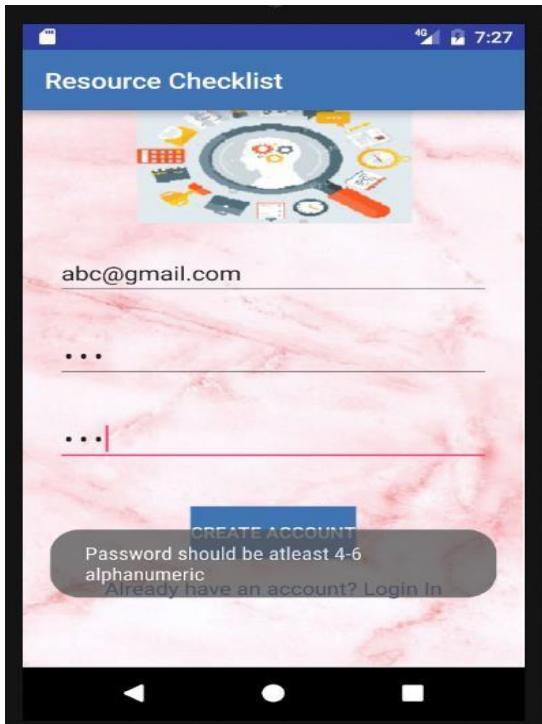
## Invalid Credentials:



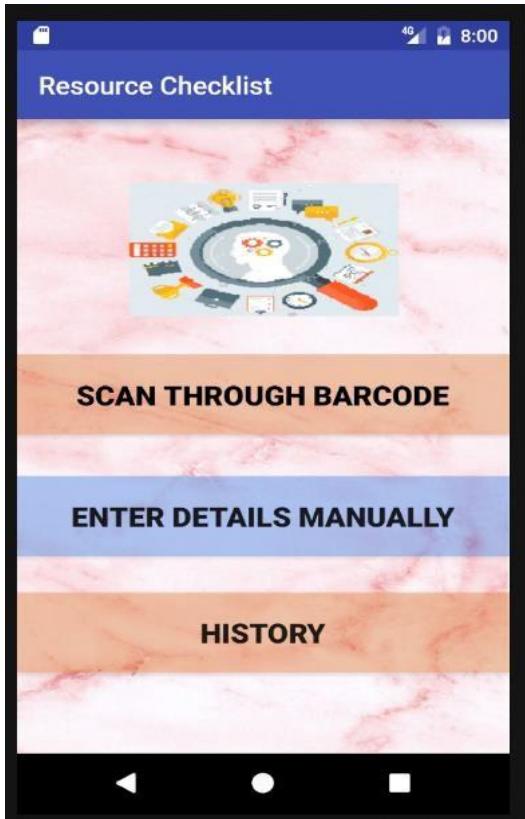
## Password Verification:

# Resource Checklist

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**Home Page:**



# Resource Checklist

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## **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

- 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

# Resource Checklist

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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=PL6gx4Cwl9DGBsvRxJJOzG4r4k\\_zLKrnxl](https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k_zLKrnxl)

<https://developer.android.com/training/basics/firstapp/creating-project.html>

<https://www.udacity.com/course/android-development-for-beginners--ud837>



# **Resource Checklist**

(Increment -2)

**By**

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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:**

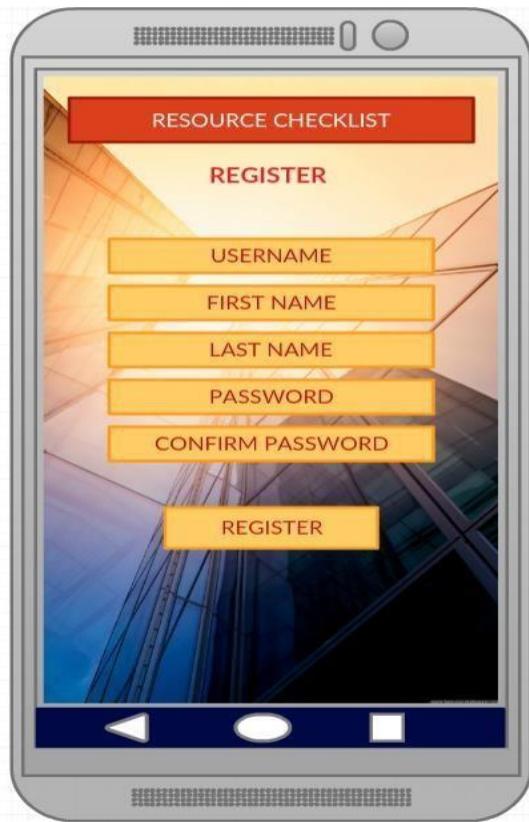
##### **Login Page:**

# Resource Checklist

---



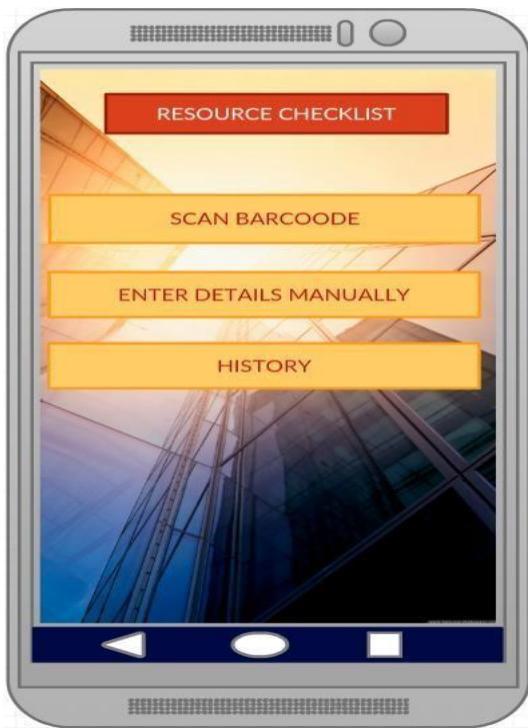
**Register Page:**



**Home Page:**

# Resource Checklist

---



## Manual Entry:



# Resource Checklist

---

## Product Search:



## Scan Item:



## History:

# Resource Checklist

---

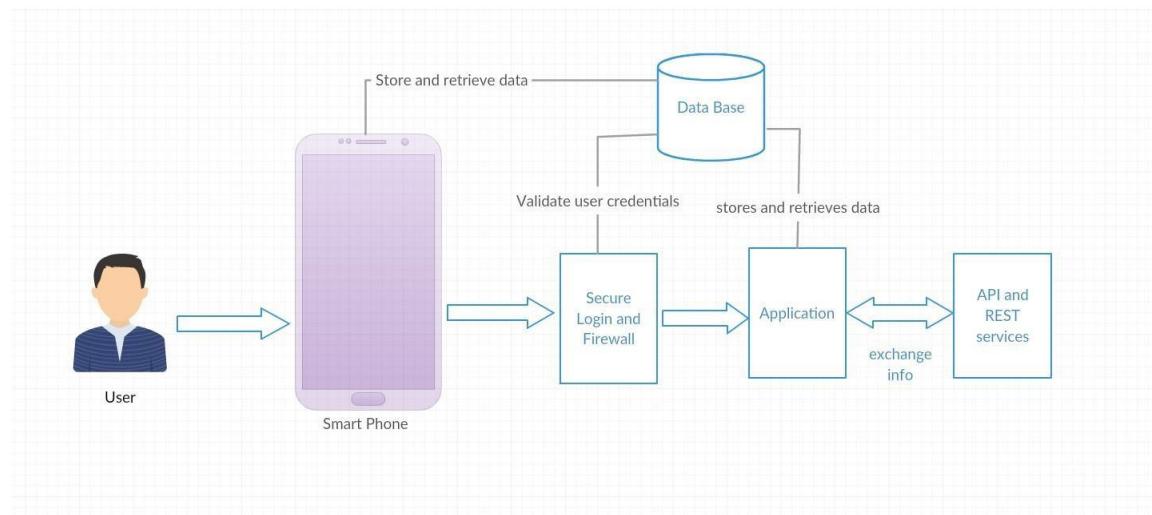


Selecting an item from history:

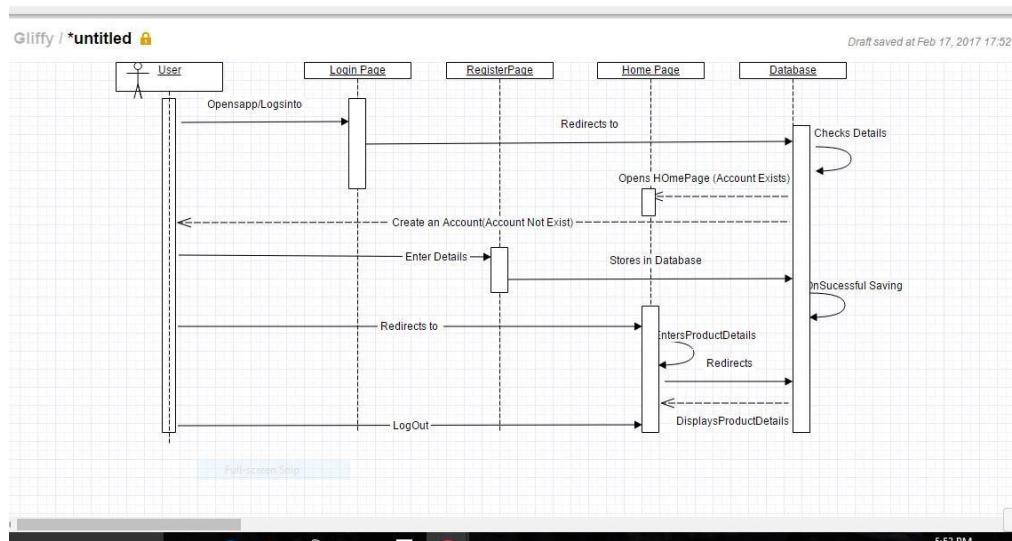


Architecture Diagram:

# Resource Checklist



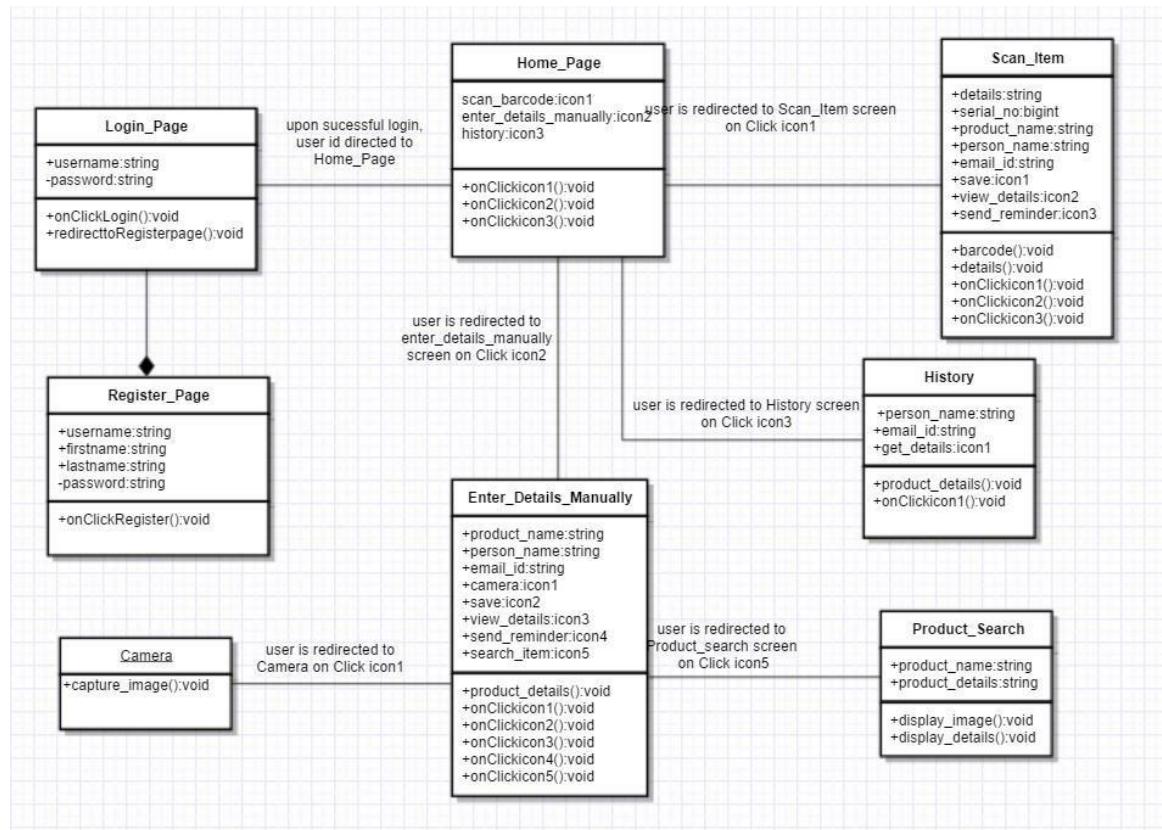
## Sequence Diagram:



# Resource Checklist

---

## Class Diagram:

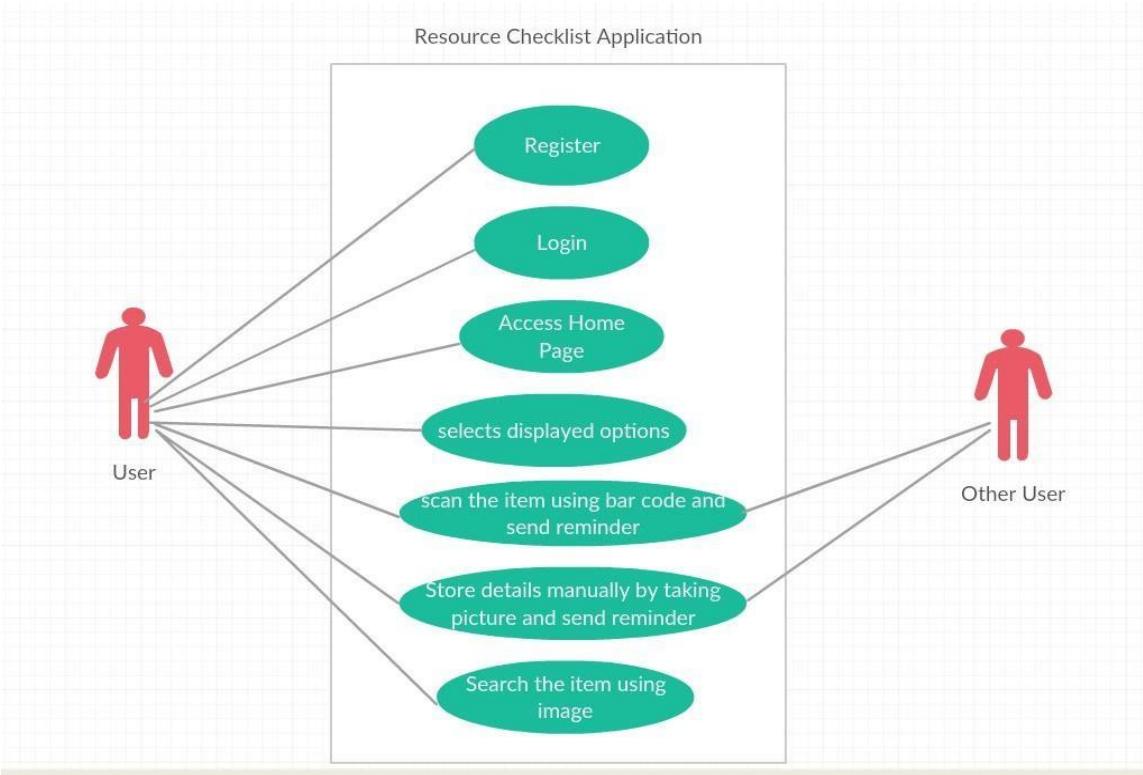


# Resource Checklist

---

Page

## 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 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:

The screenshot shows the GitHub Issues page for the repository 'SwathiJasthi / ASE\_PROJECT'. The search bar at the top contains the query 'is:issue is:open'. Below the search bar, there are filters for 'Labels' and 'Milestones'. A green 'New issue' button is located on the right. The main list displays eight open issues, all labeled as 'enhancement':

- #16: Update class, sequence, architecture diagrams (opened 17 minutes ago)
- #15: Integrating and testing new changes (opened 18 minutes ago)
- #14: Add wireframes and mockups (opened 19 minutes ago)
- #13: create user stories and testcases (opened 20 minutes ago)
- #12: Enhance User Interface (opened 21 minutes ago)
- #11: Add facebook api - login with facebook (opened 21 minutes ago)
- #10: Update register page (opened 23 minutes ago)
- #9: Updating Login page (opened 24 minutes ago)

Each issue card includes the issue number, title, creation time, author, labels, and a small profile picture.

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

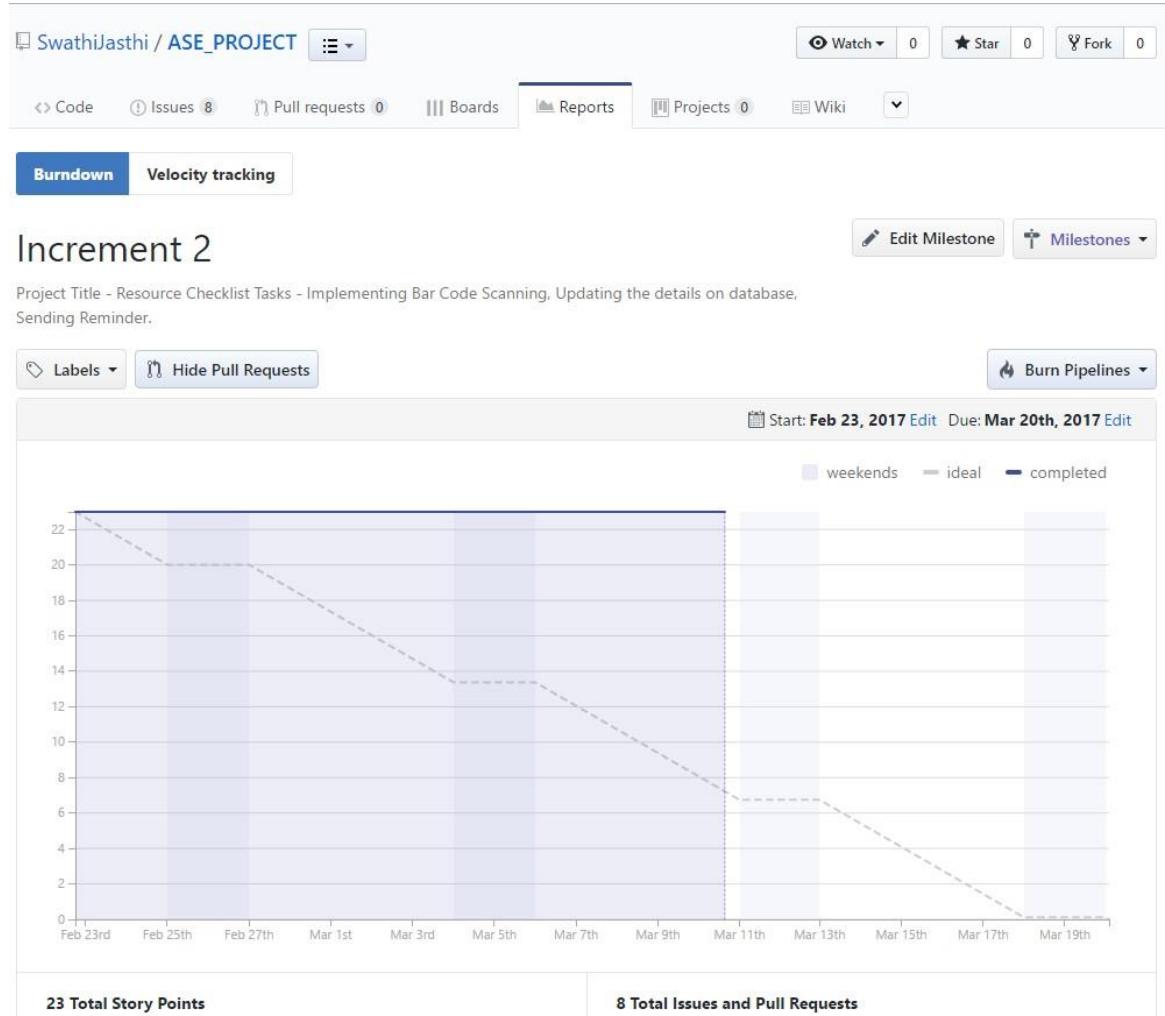
## BOARD:

The screenshot shows the GitHub Boards page for the repository 'SwathiJasthi / ASE\_PROJECT'. The board has six columns: 'New Issues', 'Icebox', 'Backlog', 'In Progress', 'Done', and 'Review/QA'. The 'New Issues' column contains six items, each with a small icon, the issue number, title, and a 'enhancement' label. The other columns are currently empty.

# Resource Checklist

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## BURNDOWN CHART:



# Resource Checklist

---

## Testing:

### Unit Testing:

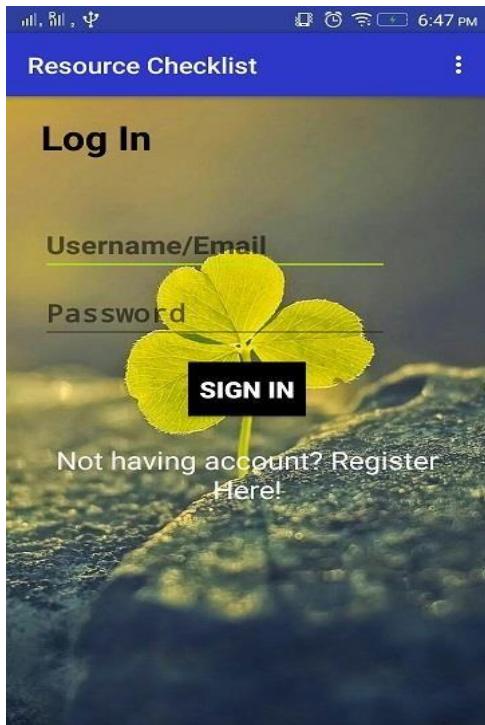
User Story Number	Test Case Description	Expected Result	Test Result
3	Enter invalid mail ID and valid password	Error message should come as "invalid credentials"	PASS
3	Enter valid mail ID and invalid password	Error message should be displayed as "invalid credentials"	PASS
3	Enter invalid mail ID and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

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## Implementation:

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



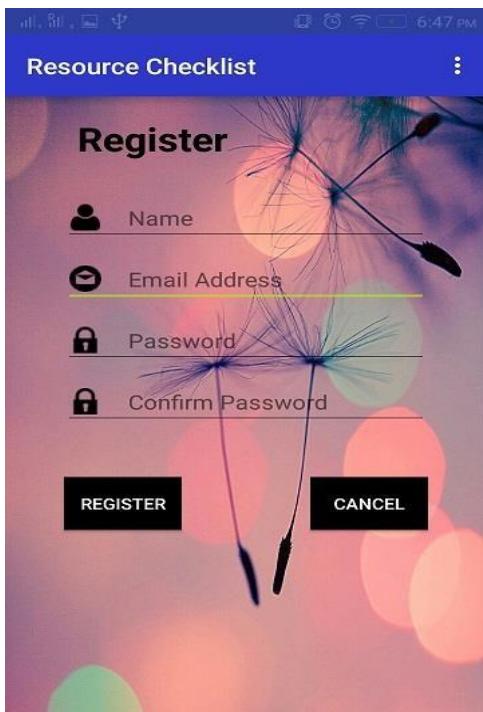
## Invalid Credentials:

# Resource Checklist

---



**Registration Page:**



# Resource Checklist

---

**Invalid email-id:**



**Invalid Password:**



# Resource Checklist

---

**Password mismatch:**



**Home Page:**



**SCAN ITEM:**

# Resource Checklist

---



## Scanning Item:



## Details are populated after scan:

## Resource Checklist

---



### Adding Borrower Details:



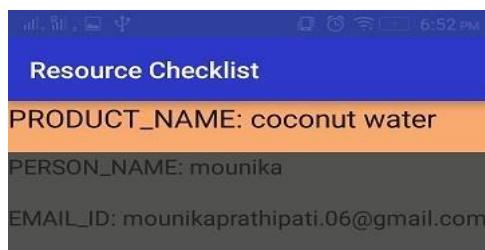
**Details are saved successfully:**

# Resource Checklist

---



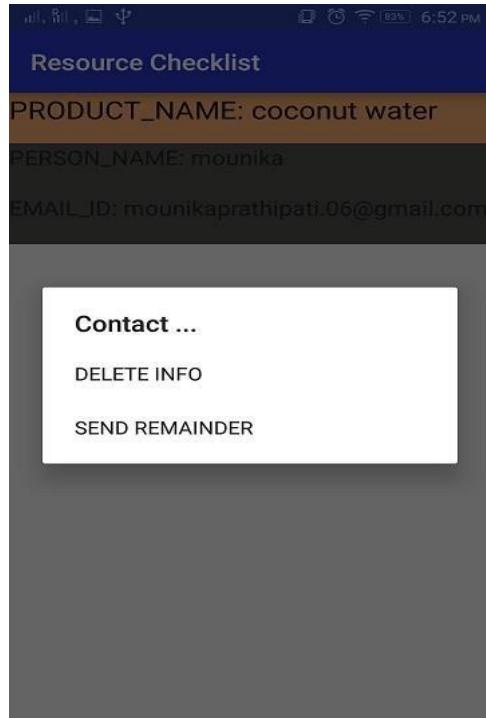
## HISTORY:



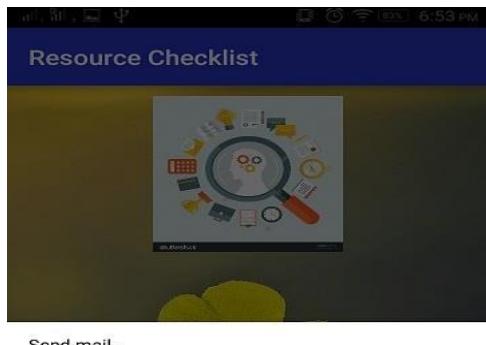
# Resource Checklist

---

Select an entry to send reminder:



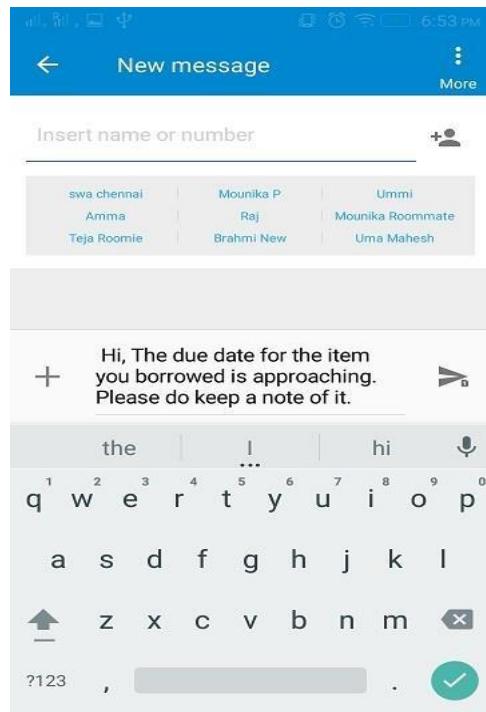
Sending Reminder:



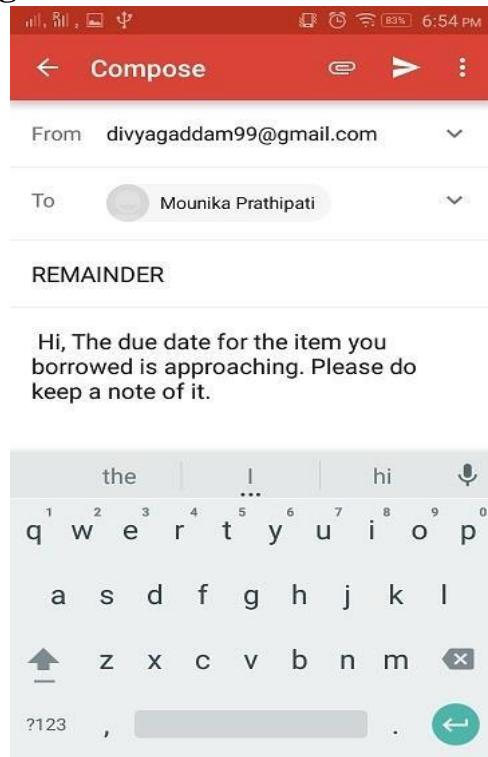
Sending message:

# Resource Checklist

---



## 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

# Resource Checklist

---

Estimated hours – 80 hours

- 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=PL6gx4Cwl9DGBsvRxJJOzG4r4k\\_zLKrnxl](https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k_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://creately.com/>

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



# Resource Checklist

(Increment -3)

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  
Spring – 2016**

# Resource Checklist

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<b>Testing.....</b>	<b>14</b>
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# Resource Checklist

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# Resource Checklist

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## **Second Increment Report:**

### **Existing Services/REST API:**

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

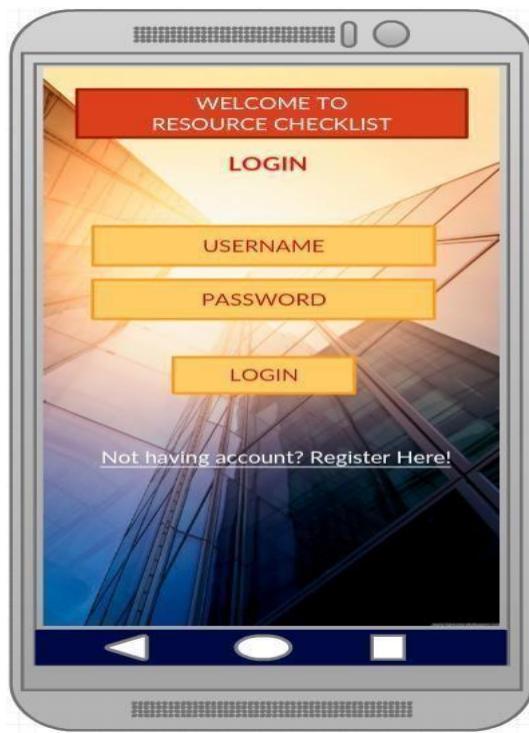
### **Detail Design of Features:**

#### **Wireframes:**

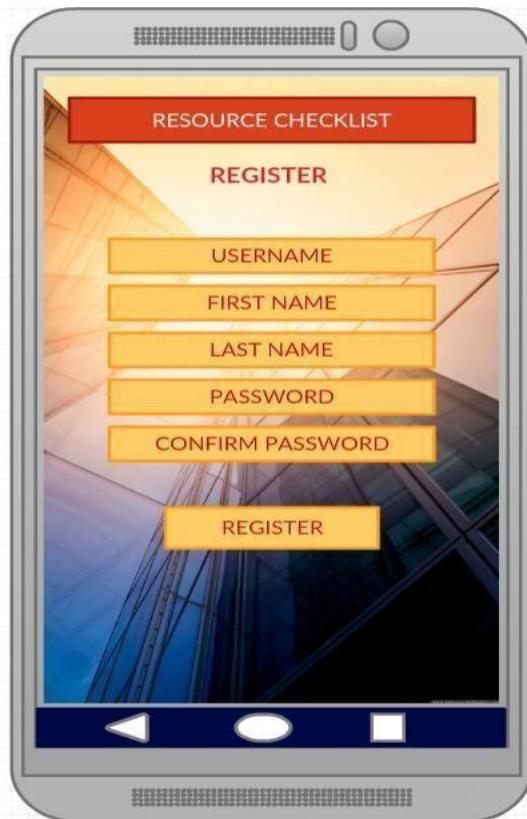
##### **Login Page:**

# Resource Checklist

---



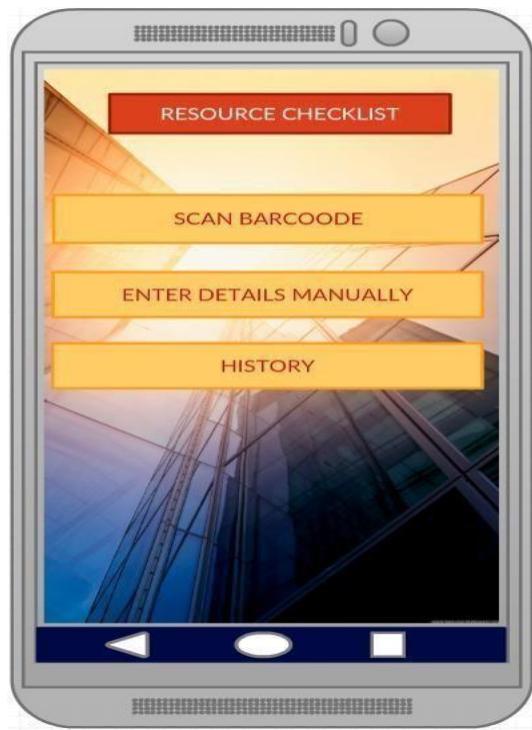
**Register Page:**



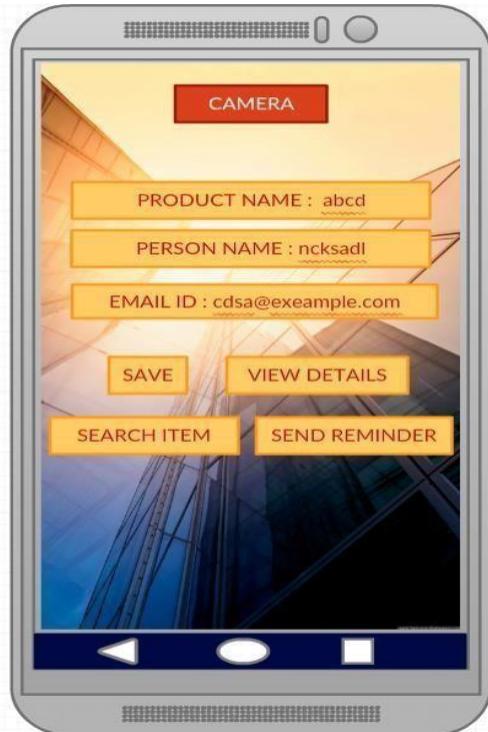
**Home Page:**

# Resource Checklist

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## Manual Entry:



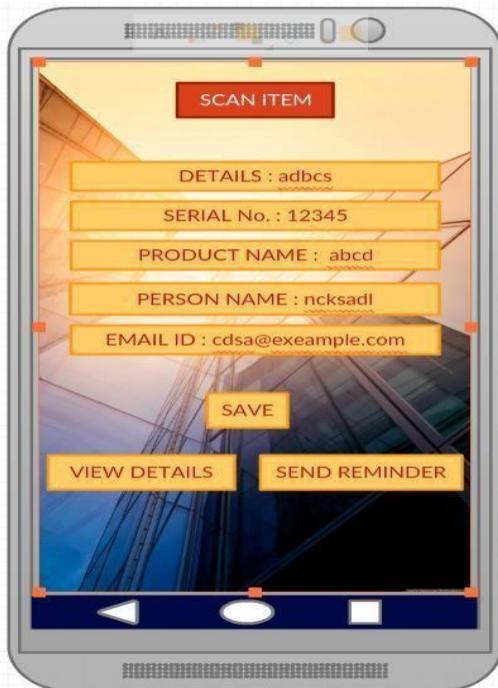
# Resource Checklist

---

## Product Search:



## Scan Item:



## History:

# Resource Checklist

---

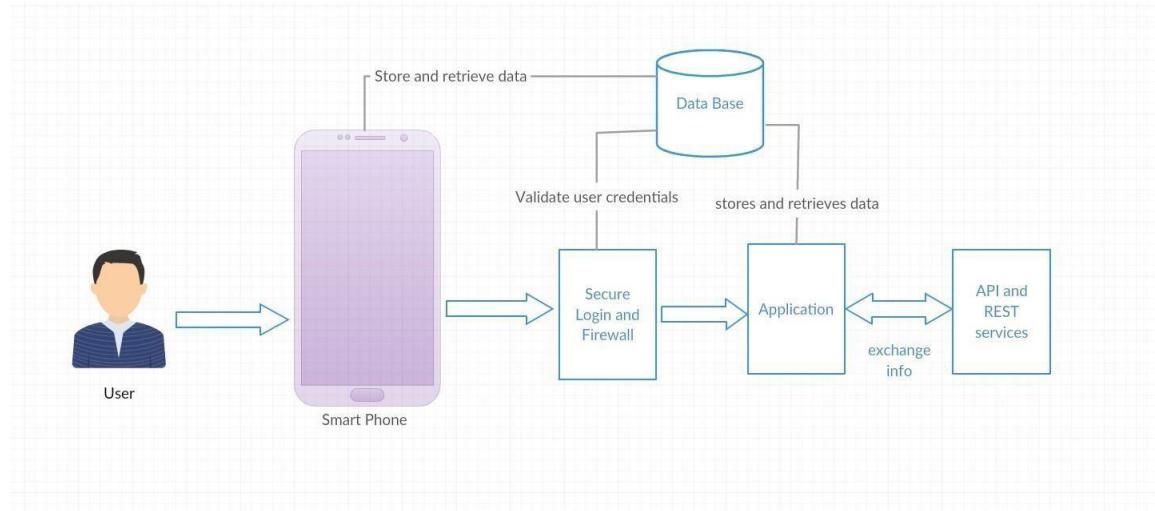


Selecting an item from history:

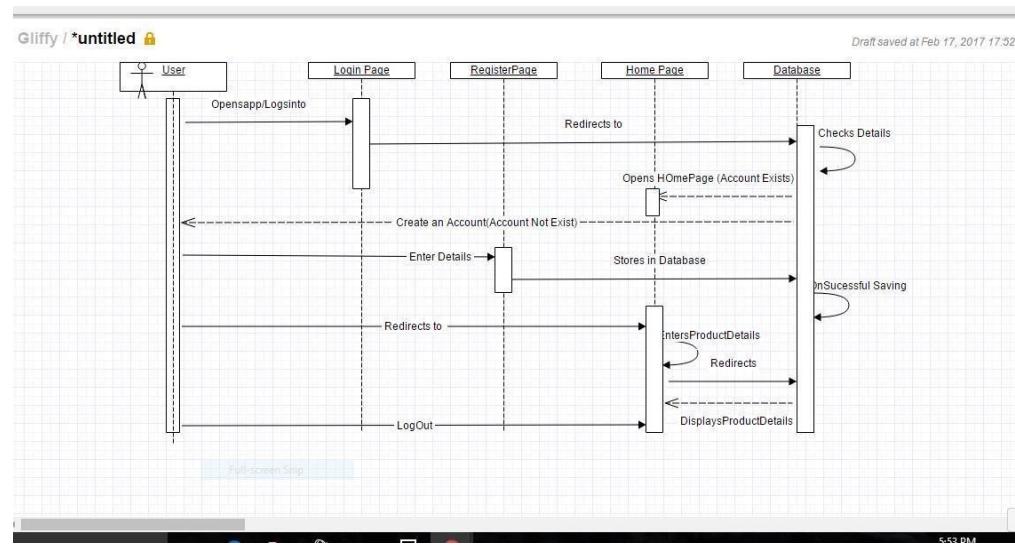


Architecture Diagram:

# Resource Checklist



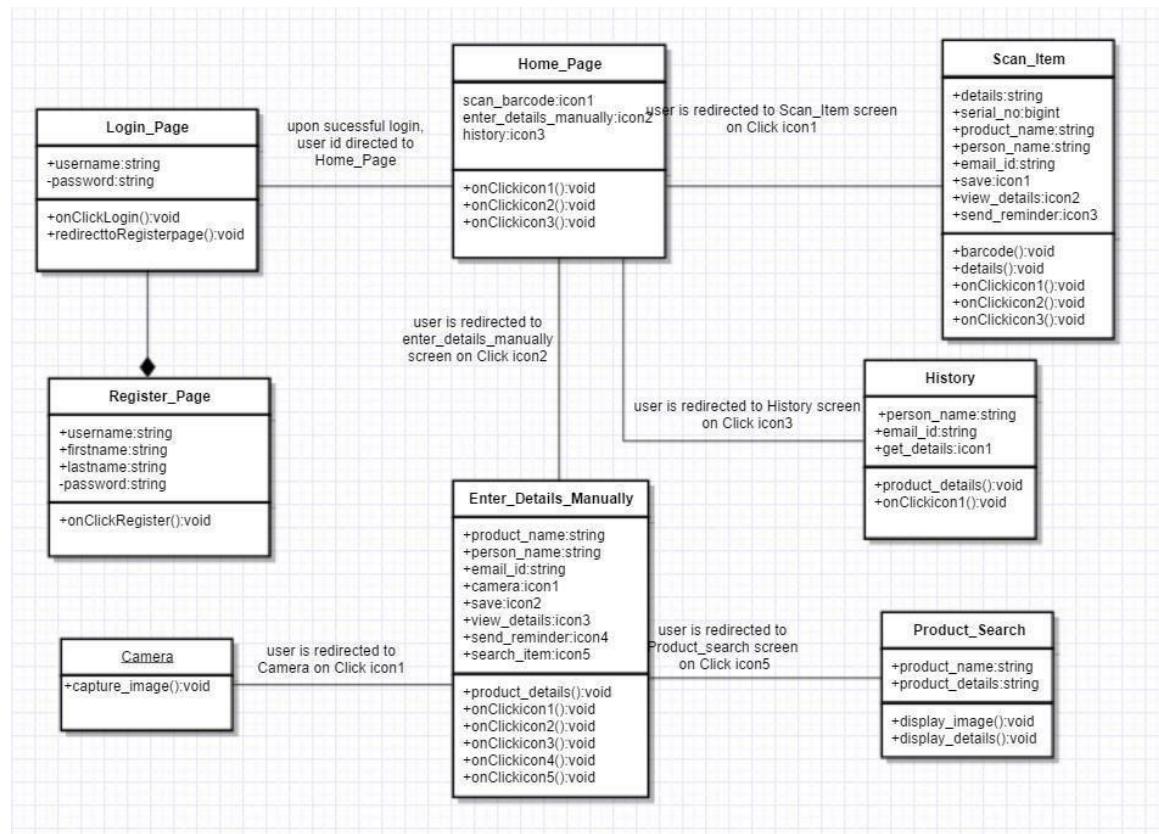
## Sequence Diagram:



# Resource Checklist

---

## Class Diagram:

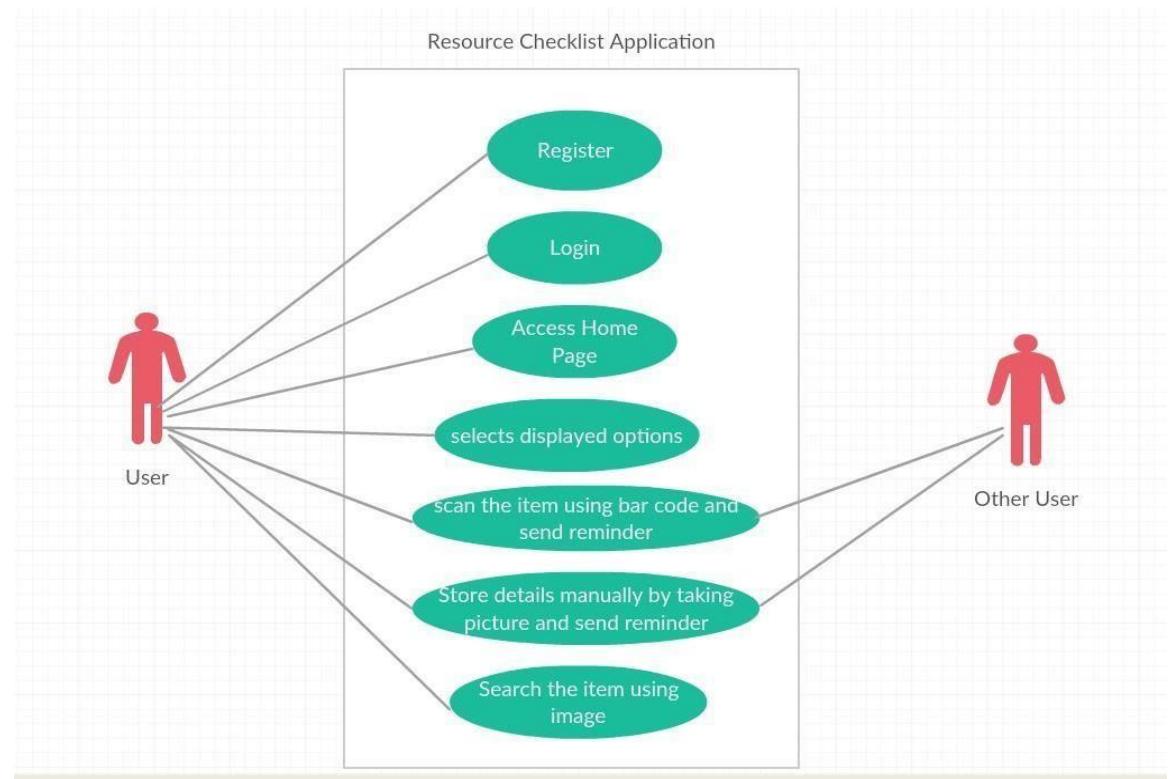


Page

## 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 have options to register to the application to use it.
5. The user should be redirected to the Home Page after a successful login.
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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

The screenshot shows a Jira project board for 'SwathiJasthi / ASE\_PROJECT'. There are 14 open issues listed:

- Manually entering details page (enhancement)
- Testing positive and negative scenarios (enhancement)
- Updating Login, Register, and Home pages (enhancement)
- Create user stories (enhancement)
- Modifying UML diagrams (enhancement)
- Improving UI (enhancement)

Each issue includes a description, the number of comments (3), the reporter (MounikaPrathipati), the increment (Increment 3 or 2), and the status (New Issues, Backlog, or Done).

## BOARD:

The screenshot shows a Jira board view for 'SwathiJasthi / ASE\_PROJECT' with the following columns:

- New Issues: ASE\_PROJECT #13 (enhancement), ASE\_PROJECT #21 (enhancement), ASE\_PROJECT #22 (enhancement).
- Icebox: ASE\_PROJECT #14 (enhancement).
- Backlog: ASE\_PROJECT #19 (enhancement), ASE\_PROJECT #17 (enhancement).
- In Progress: ASE\_PROJECT #10 (enhancement), ASE\_PROJECT #12 (enhancement), ASE\_PROJECT #15 (enhancement).
- Done: ASE\_PROJECT #9 (enhancement), ASE\_PROJECT #16 (enhancement), ASE\_PROJECT #20 (enhancement), ASE\_PROJECT #18 (enhancement).
- Review/QA: ASE\_PROJECT #11 (enhancement).

## BURNDOWN CHART:

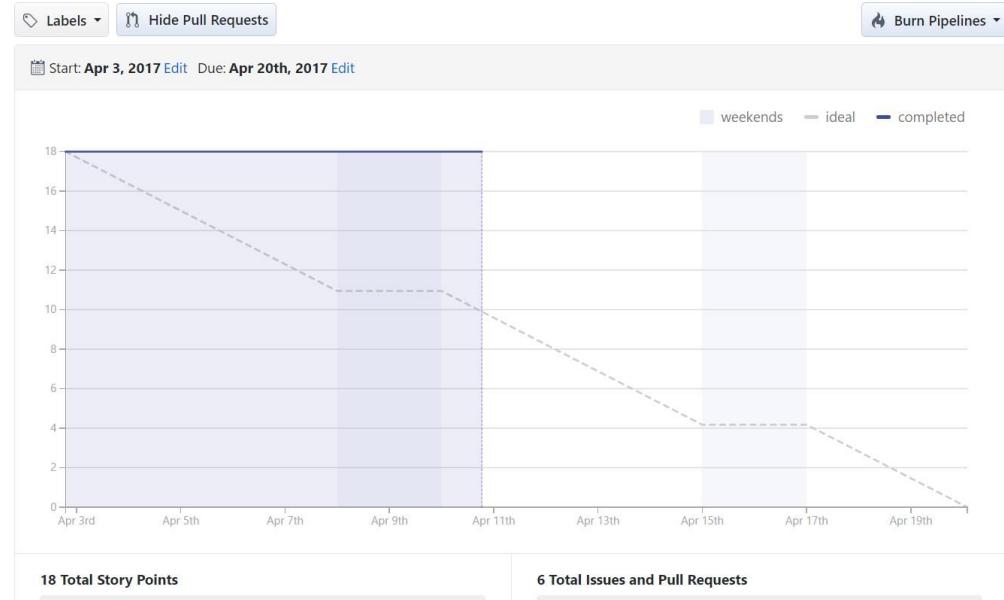
# Resource Checklist

---

## Increment 3

[Edit Milestone](#) [Milestones](#)

ASE Project Resource Check List - Increment 3



# Resource Checklist

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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
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

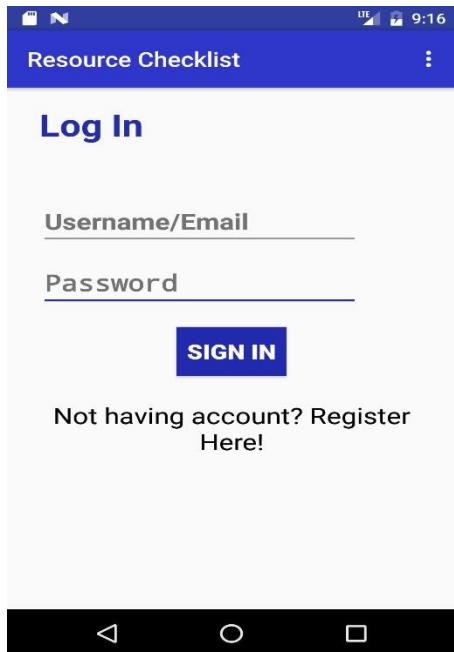
# Resource Checklist

---

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

## Implementation:

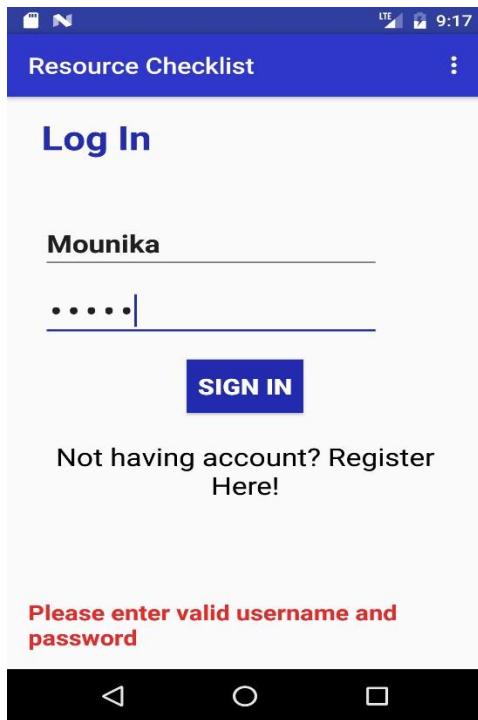
The “Resource Checklist” application has implemented in Android Studio onto an Android mobile. Below screenshots describes the flow **Login Page:**



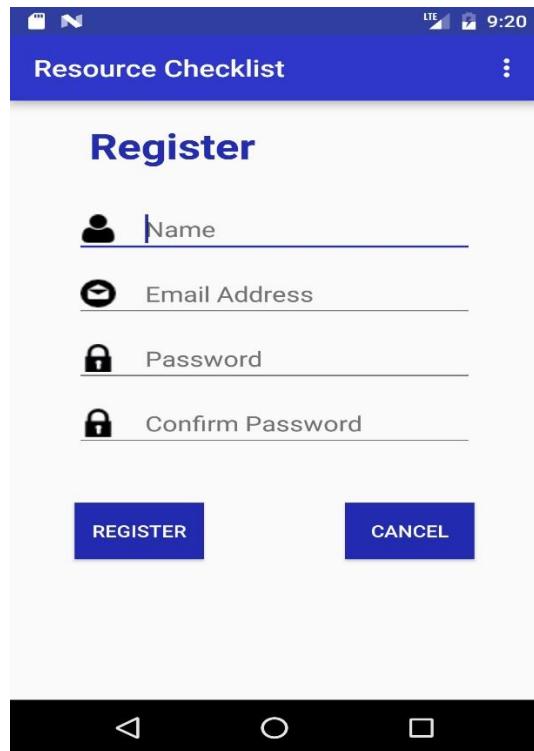
## Invalid Credentials:

# Resource Checklist

---



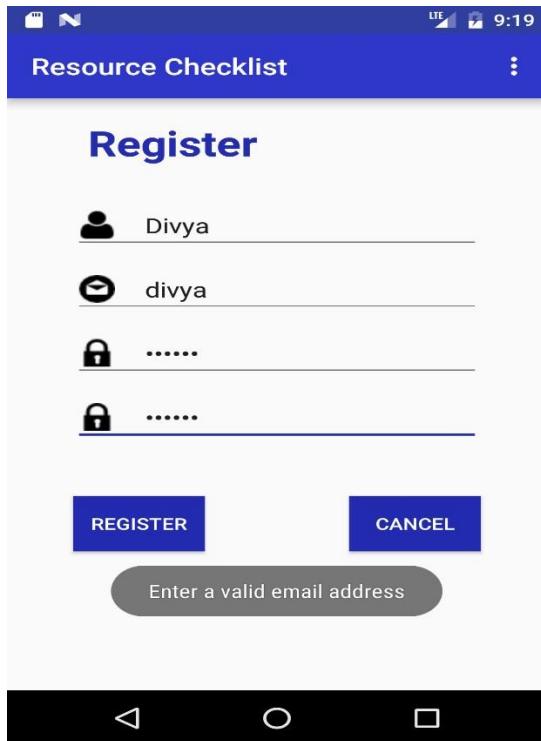
**Registration Page:**



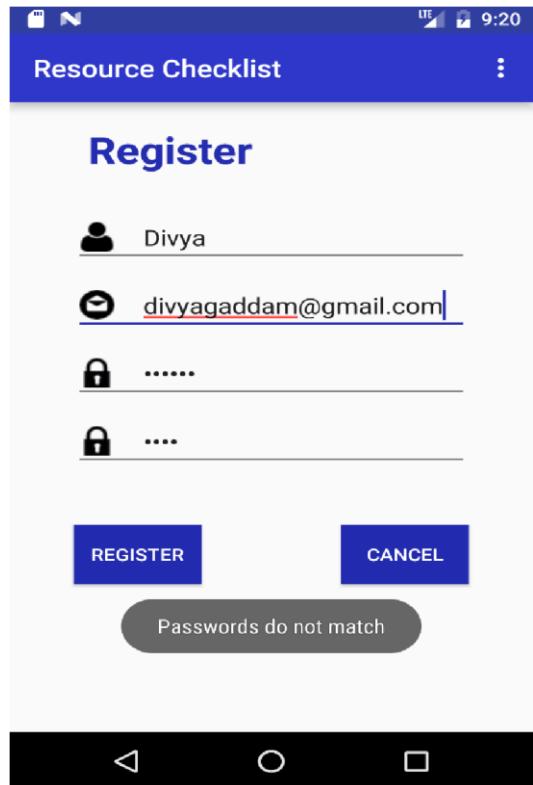
## Resource Checklist

---

Invalid email-id:



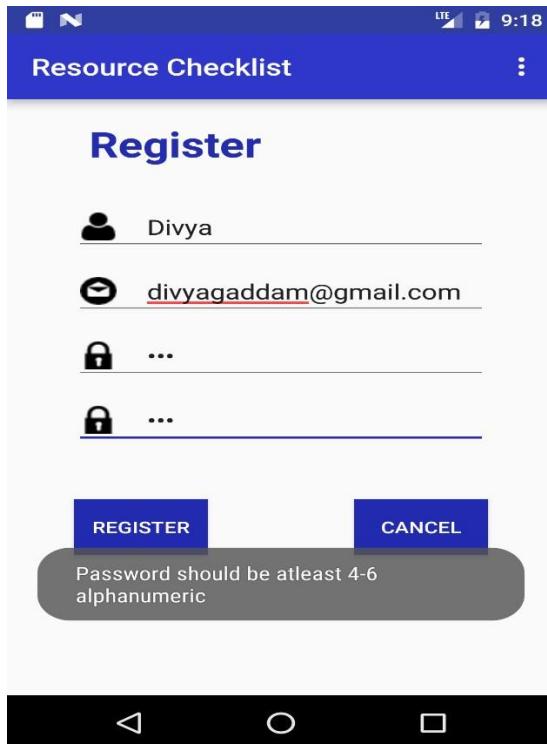
Password mismatch:



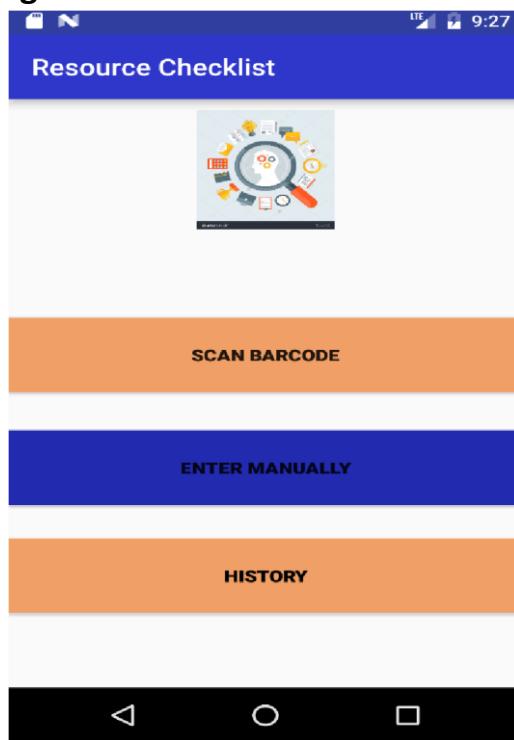
# Resource Checklist

---

Invalid password:



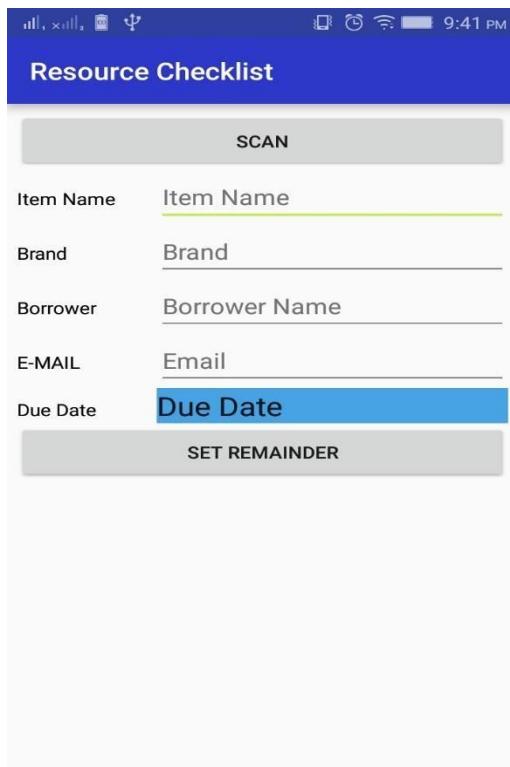
Home Page:



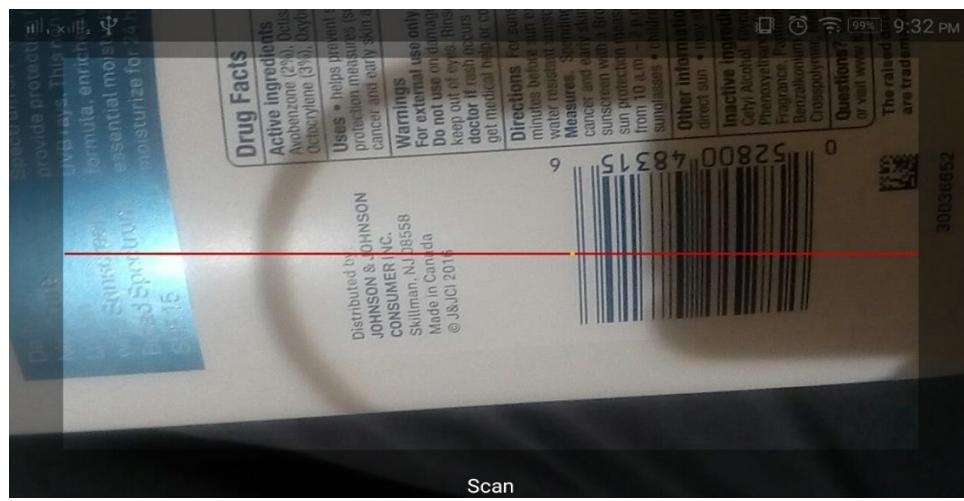
# Resource Checklist

---

## SCAN ITEM:



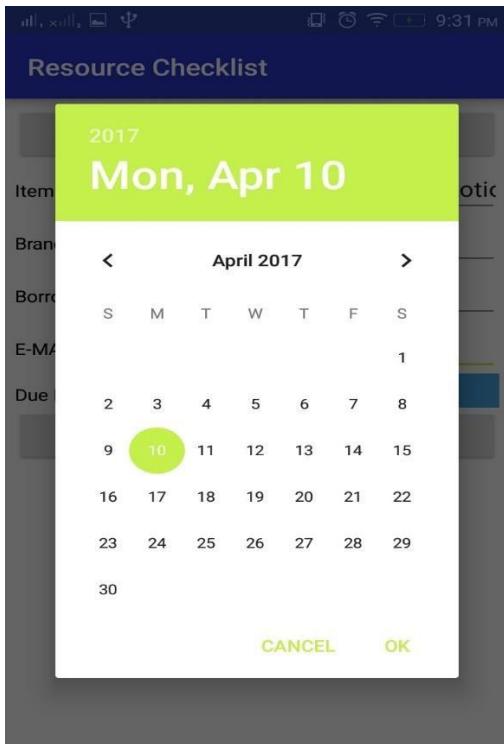
## Scanning Item:



# Resource Checklist

---

**Calendar option for due date:**



**Details are populated after scan:**

# Resource Checklist

---

A screenshot of a smartphone displaying a mobile application titled "Resource Checklist". The screen shows the following data entries:

Item Name	Lubriderm Daily Moisture Lotion
Brand	Johnson & Johnson
Borrower	div
E-MAIL	div@gmail.com
Due Date	10-4-2017

Below the form is a grey button labeled "SET REMAINDER". At the top of the screen, there are standard smartphone status icons.

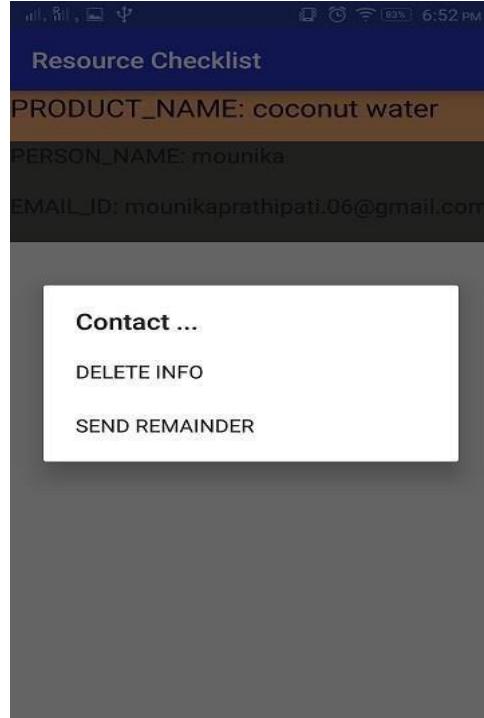
## HISTORY:



## Resource Checklist

---

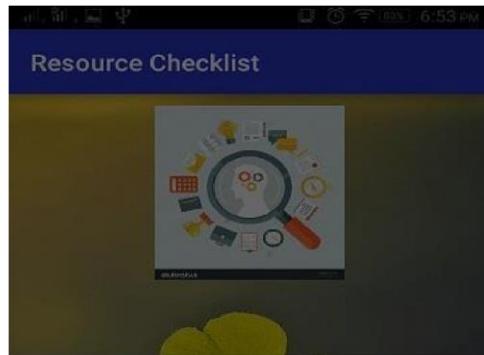
Select an entry to send reminder:



Sending Reminder:

# Resource Checklist

---



Send mail...



Barcode  
Scanner



Messaging



Gmail



Add to  
Evernote



Hangouts



Copy to  
clipboard



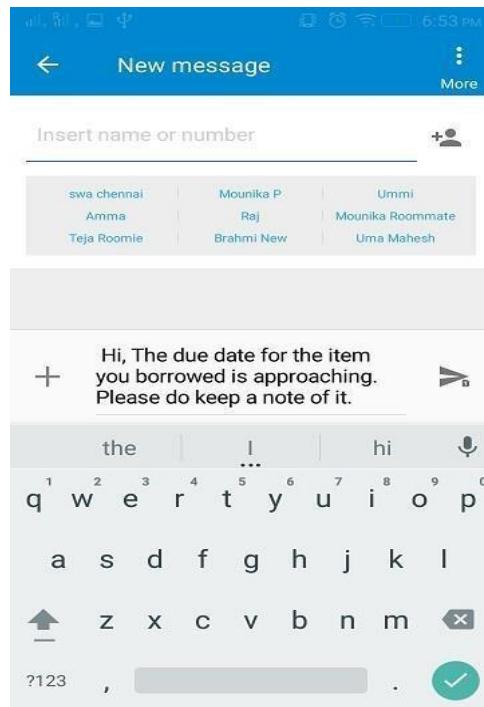
Save to Drive



Bluetooth



## Sending message:

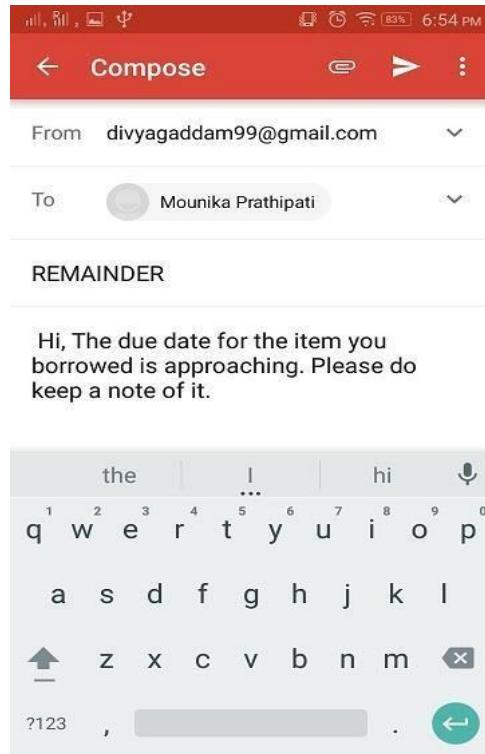


## Sending email:

---

# 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:

- 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

# Resource Checklist

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Contribution – 25%

- UI enhancement

Contributor – Uma Maheswara Reddy Mandapati

Time taken – 20 hours

Contribution – 25%

## Work to be completed:

- Object Detection

Contributor – Uma Maheshwara Reddy Mandapati, Divya Gaddam, Mounika Prathipati

Estimated hours – 80hrs each

- UI enhancement

Contributor – Swathi Jasthi

Estimated hours – 80 hours

## Bibliography:

<https://developers.google.com/maps/documentation/javascript/get-api-key>

[https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k\\_zLKrnxl](https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k_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://creately.com/>

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



# **Resource Checklist**

(Increment -4)

**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**  
**Spring – 2016**

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# Resource Checklist

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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

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## **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

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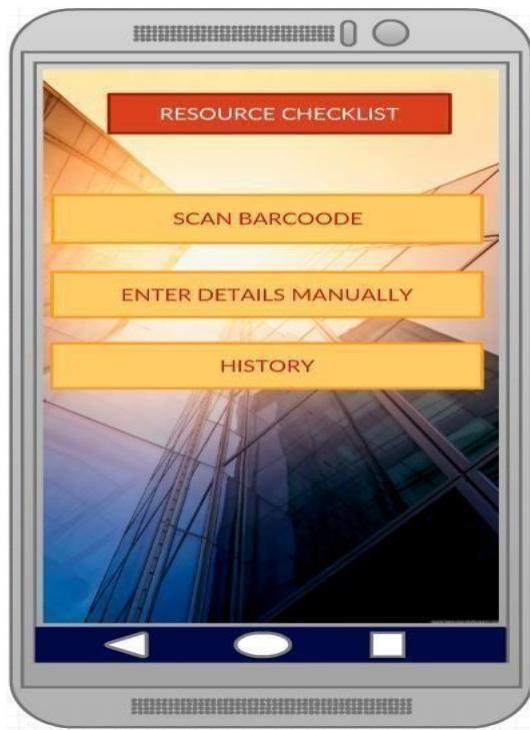
**Register Page:**



**Home Page:**

## Resource Checklist

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### Manual Entry:



# Resource Checklist

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## Product Search:



## Scan Item:



## History:

## Resource Checklist

---



**Selecting an item from history:**

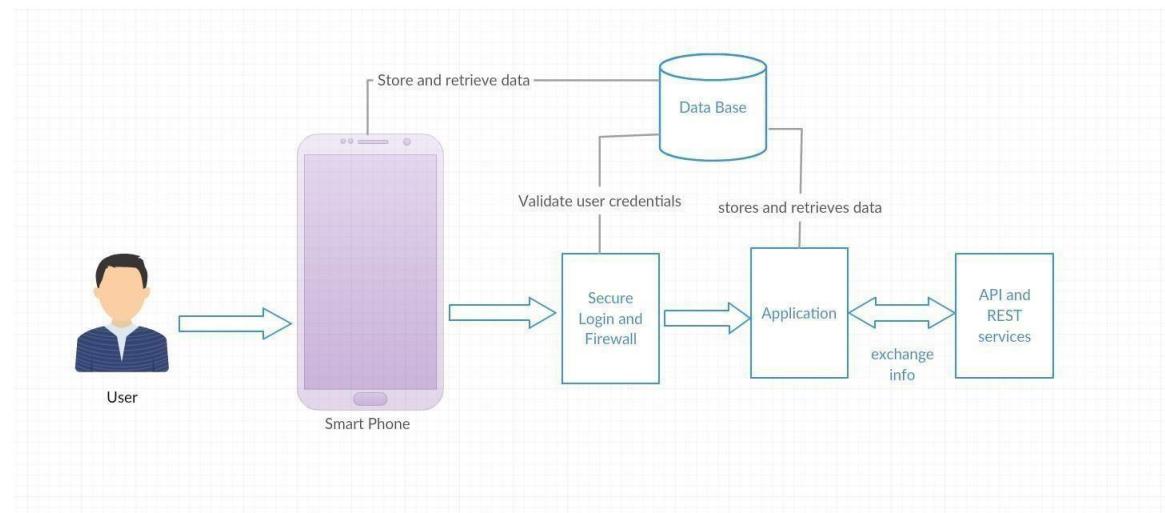


**Architecture Diagram:**

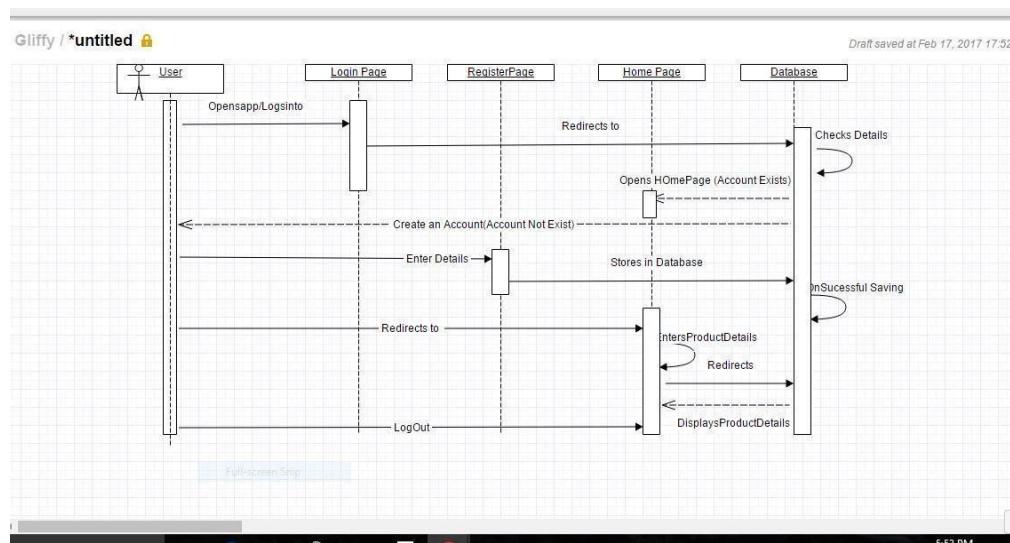
---

# Resource Checklist

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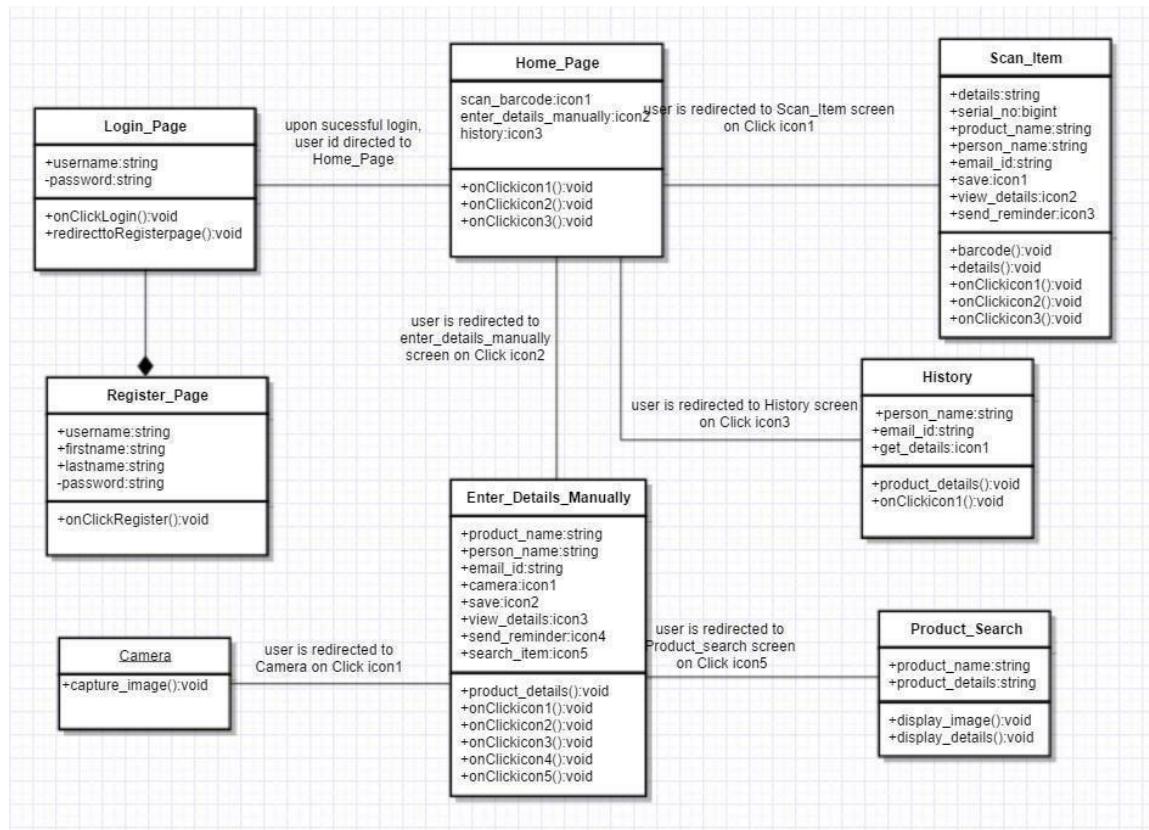


## Sequence Diagram:



# Resource Checklist

## Class Diagram:

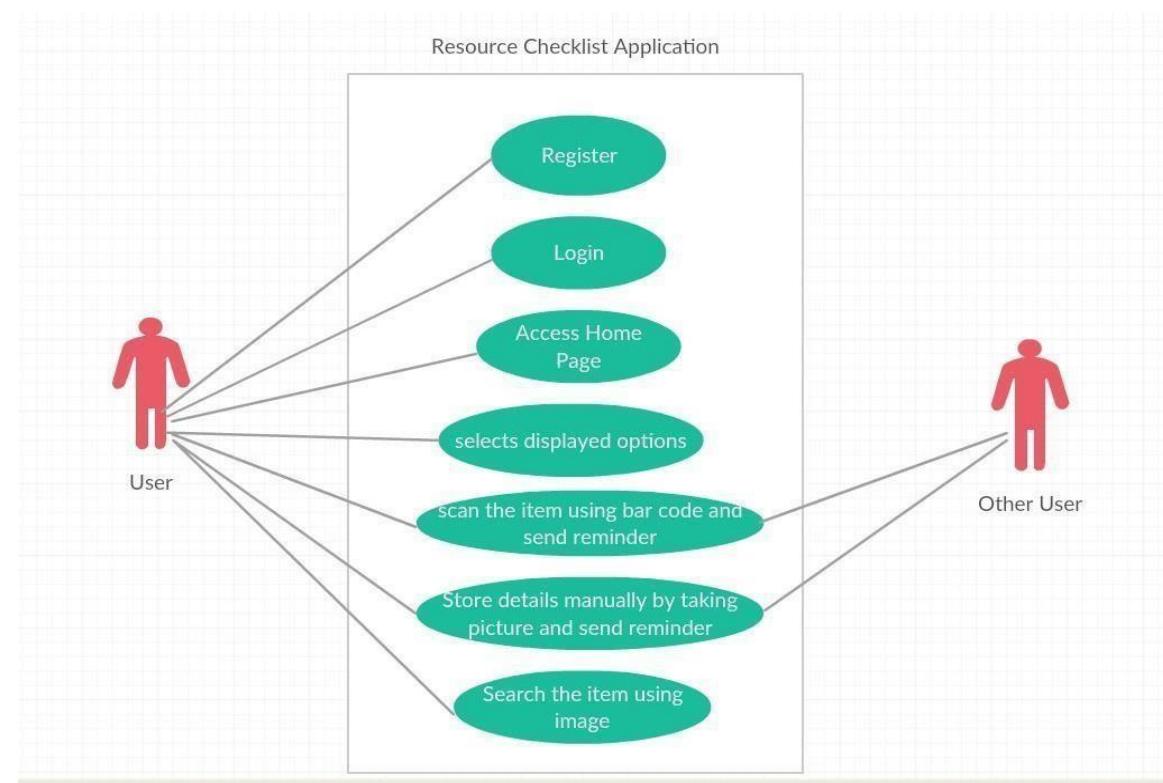


Page

## 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 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

This screenshot shows the GitHub Issues page for the repository 'SwathiJasthi / ASE\_PROJECT'. The page displays 22 open issues, all of which are enhancement tasks. The issues are listed in chronological order, with the most recent at the top. Each issue includes a title, a brief description, and a link to the full issue details.

Issue Number	Title	Description	Type	Status
#30	Improve UI	enhancement	New Issues	
#29	Testing all the pages and product details	help wanted	New Issues	
#28	Link the website with the name where it is displayed	enhancement	New Issues	
#27	Retrieve cost details from all the web sites where it is available	duplicate	Backlog	
#26	Retrieve cost details from all web sites	enhancement	In Progress	
#25	Search feature in history page	enhancement	New Issues	

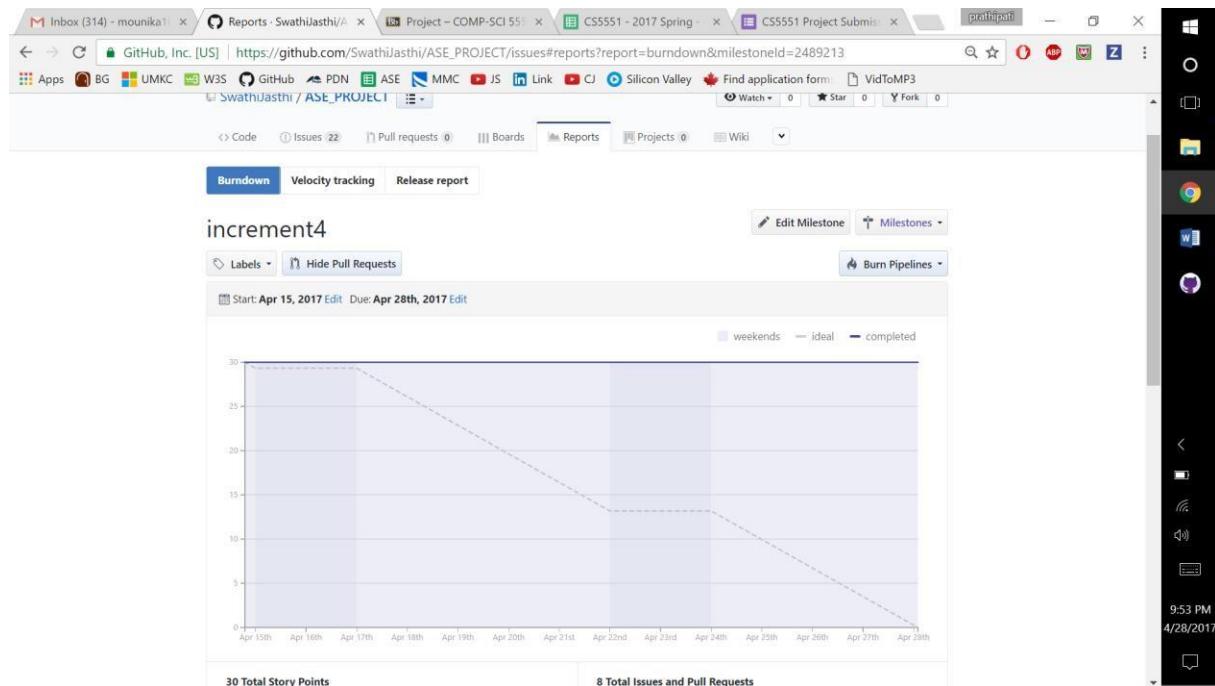
## BOARD:

This screenshot shows the GitHub Boards page for the repository 'SwathiJasthi / ASE\_PROJECT'. The board is divided into four main columns: New Issues, Backlog, In Progress, and Done. Each column contains several items, each represented by a card with a title, description, type, and status. The items in the 'In Progress' column have a green background, while others have a white background.

Column	Item #	Title	Description	Type	Status
New Issues	9	Search feature in history page	increment4	enhancement	
Backlog	4	ASE_PROJECT #14	Add wireframes and mockups	enhancement	
In Progress	5	ASE_PROJECT #12	Enhance User Interface	enhancement	
Done	4	ASE_PROJECT #13	Update class, s diagrams	enhancement	

## 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

## Resource Checklist

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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

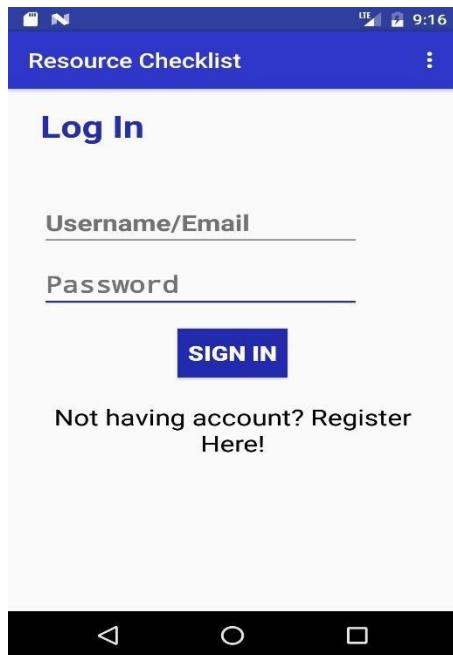
# Resource Checklist

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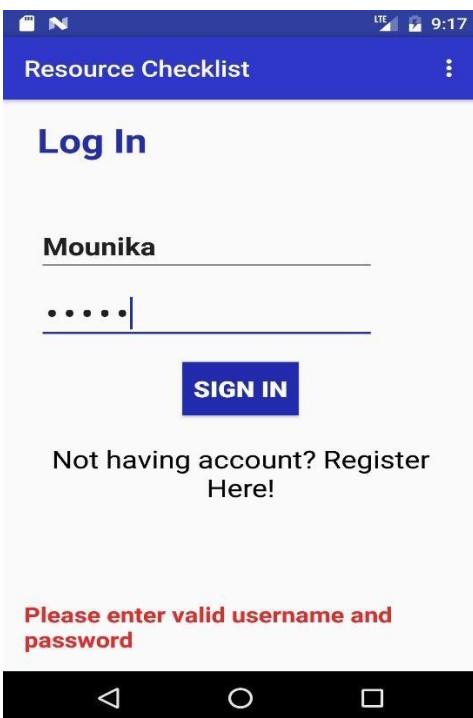
## Implementation:

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

### Login Page:



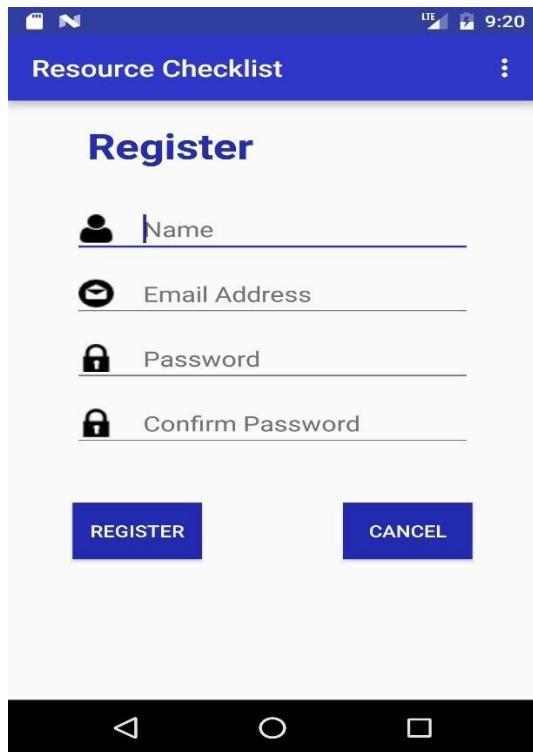
### Invalid Credentials:



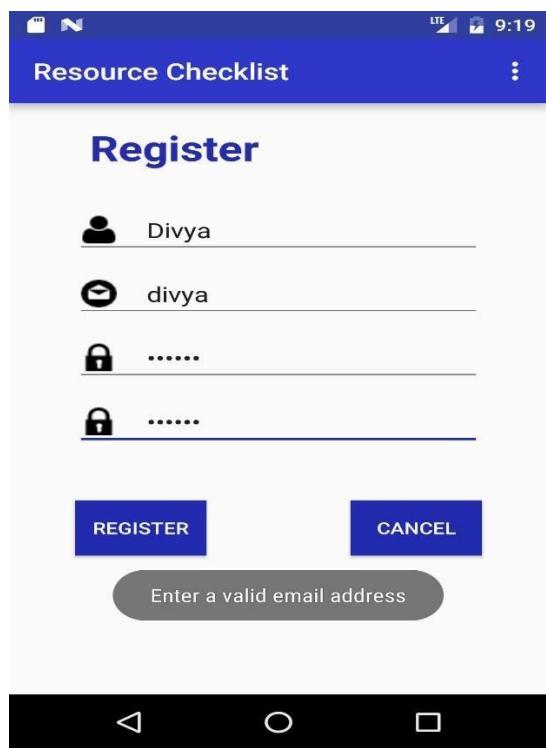
# Resource Checklist

---

## Registration Page:



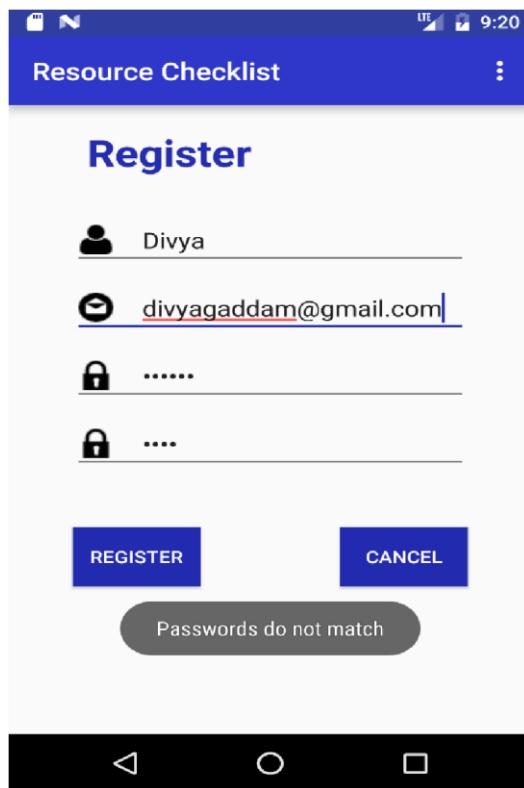
Invalid email-id:



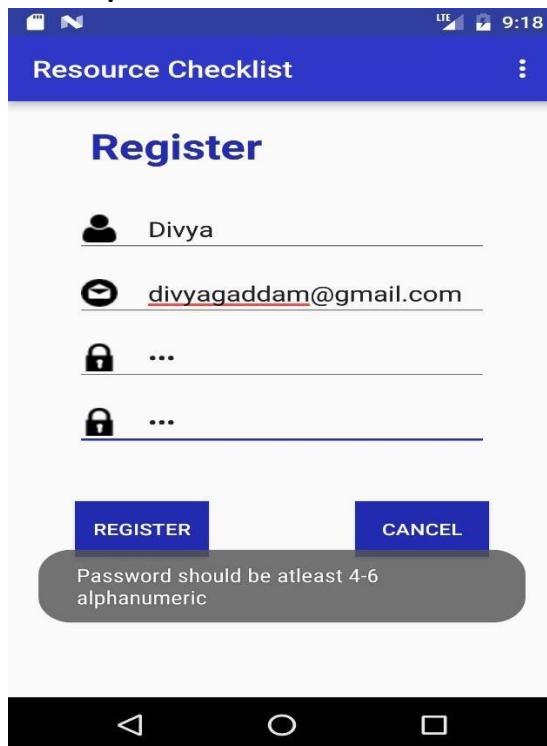
# Resource Checklist

---

**Password mismatch:**



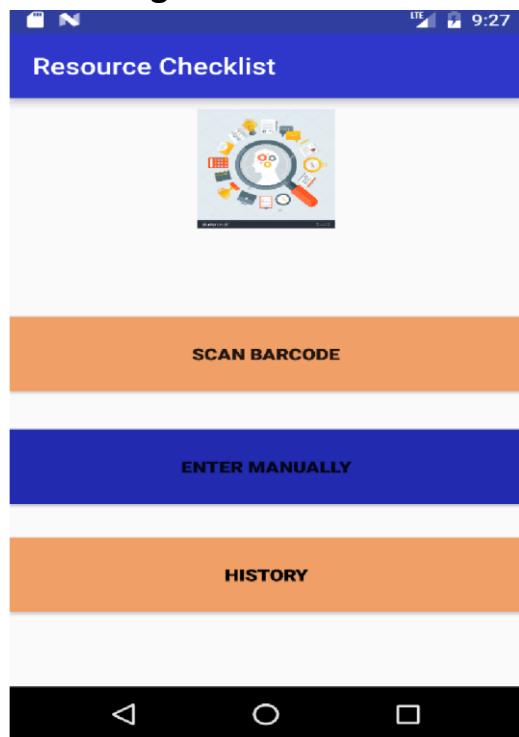
**Invalid password:**



# Resource Checklist

---

## Home Page:

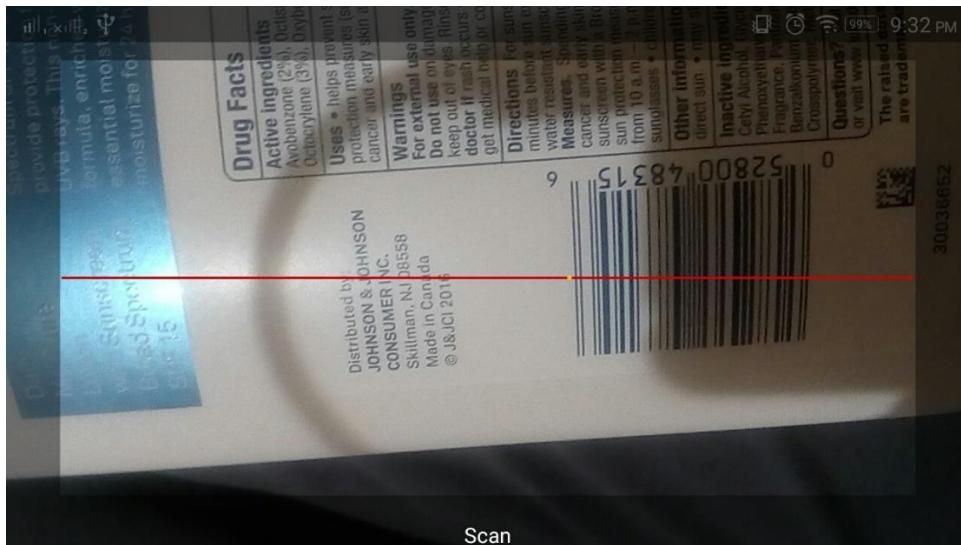


## SCAN ITEM:

A screenshot of the "Resource Checklist" app showing the "SCAN ITEM" screen. It features a "SCAN" button at the top. Below it are input fields for "Item Name", "Brand", "Borrower", "E-MAIL", and "Due Date". The "Due Date" field is highlighted with a blue background. A "SET REMAINDER" button is located below the input fields.

## Scanning Item:

# Resource Checklist



Scan

**Details are populated after scan:**

9:30 PM

### 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

**Price Comparison:**

## Resource Checklist

---



A screenshot of a smartphone displaying a resource checklist. The screen shows a blue header bar with icons for signal strength, battery level, and time (9:57 PM). Below the header, the title "Resource Checklist" is displayed in white text on a dark blue background. The main content is a table with two columns: a retailer name and its price. The data is as follows:

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

---



Lubriderm Daily Moisture  
Lotion Shea + Relaxing  
Lavender Jasmine 16.0 fl oz

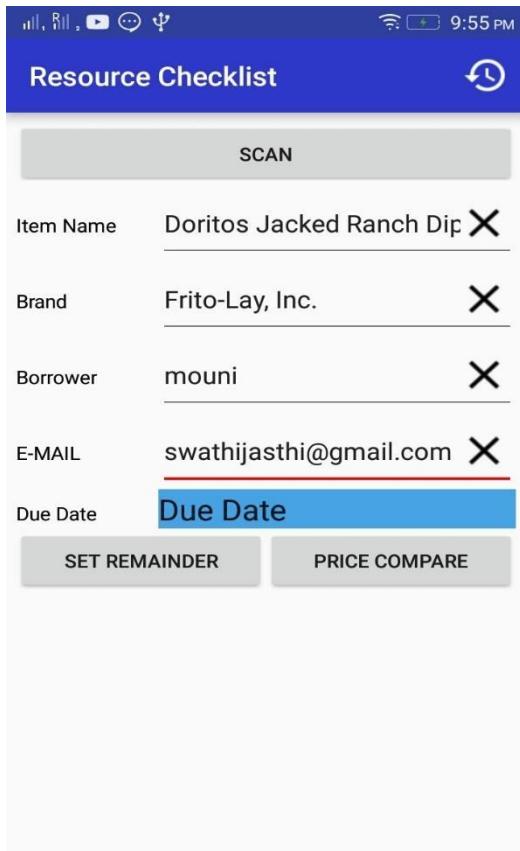


---

**Scan Item 2:**

# Resource Checklist

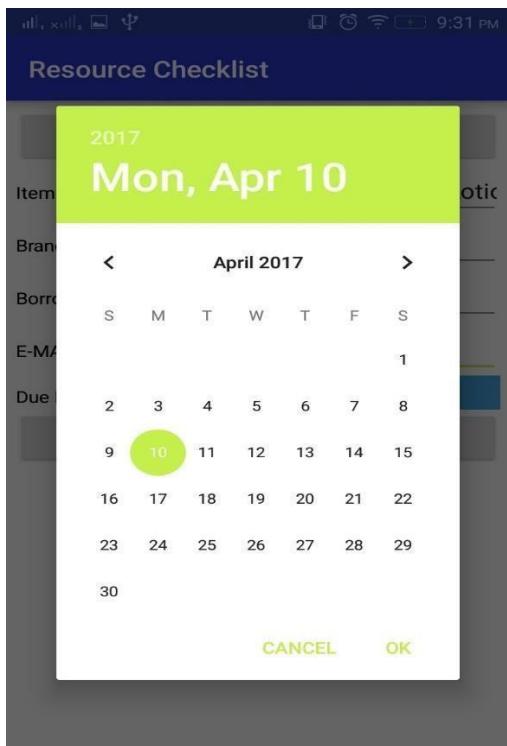
---



**Calendar option for due date:**

# Resource Checklist

---



## HISTORY:

# Resource Checklist

---



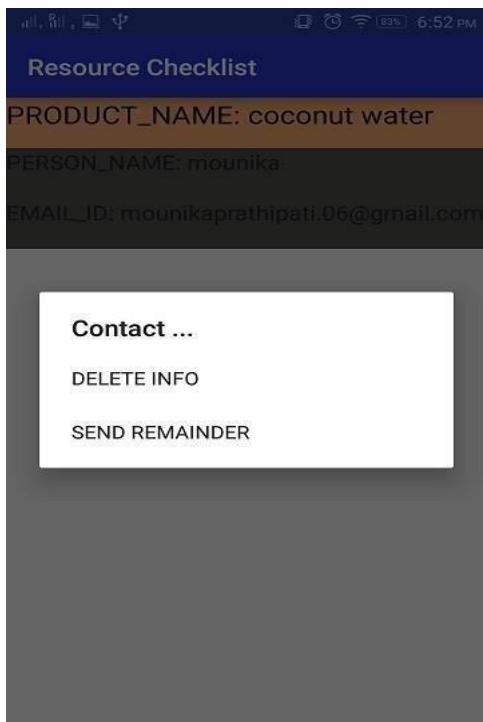
A screenshot of a smartphone displaying a "Resource Checklist" application. The screen shows a list of items with checkboxes, a search bar, and a trash icon. The items are grouped by status: Pending (3 entries) and Pending (1 entry). Each entry includes a checkbox, the item name, a quantity, a manufacturer, and a date.

Pending	Doritos		mouni	
	Jacked Ranch			
	Dipped Hot			
	Wings Flavored Tortilla			
	Chips, 3.125 oz			
	Frito-Lay, Inc.	04/29/2017		
Pending	Doritos		mouni	
	Jacked Ranch			
	Dipped Hot			
	Wings Flavored Tortilla			
	Chips, 3.125 oz			
	Frito-Lay, Inc.	04/29/2017		
Pending	Doritos		mouni	
	Jacked Ranch			
	Dipped Hot			
	Wings Flavored Tortilla			
	Chips, 3.125 oz			
	Frito-Lay, Inc.	04/29/2017		
Pending	Doritos			
	Jacked Ranch			

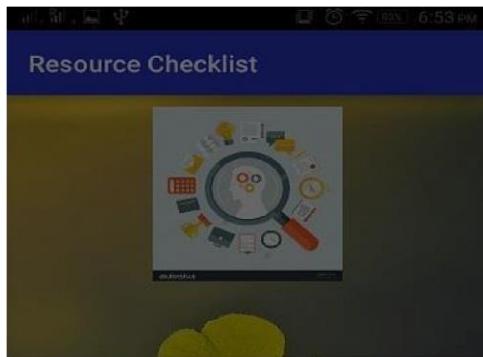
Select an entry to send reminder:

# Resource Checklist

---



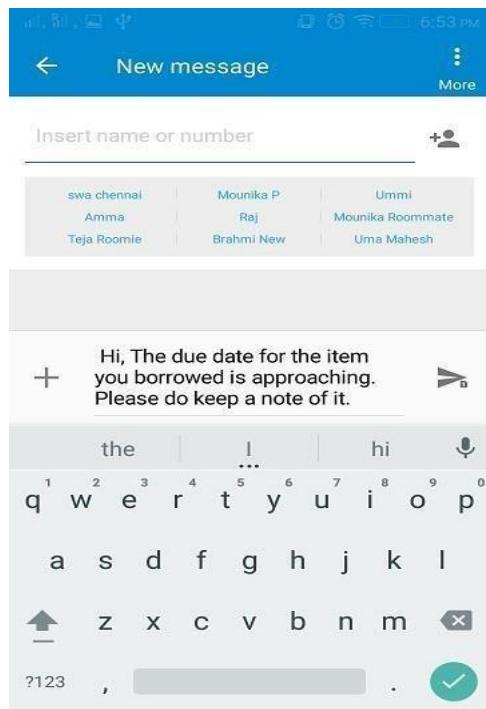
## Sending Reminder:



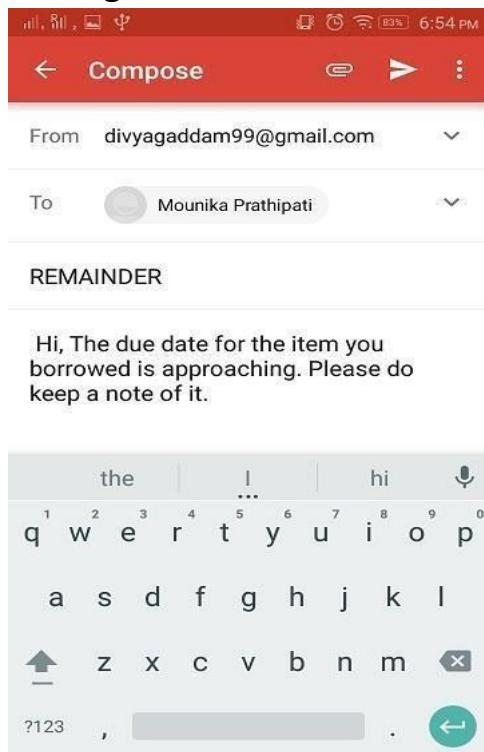
## Sending message:

# 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:**

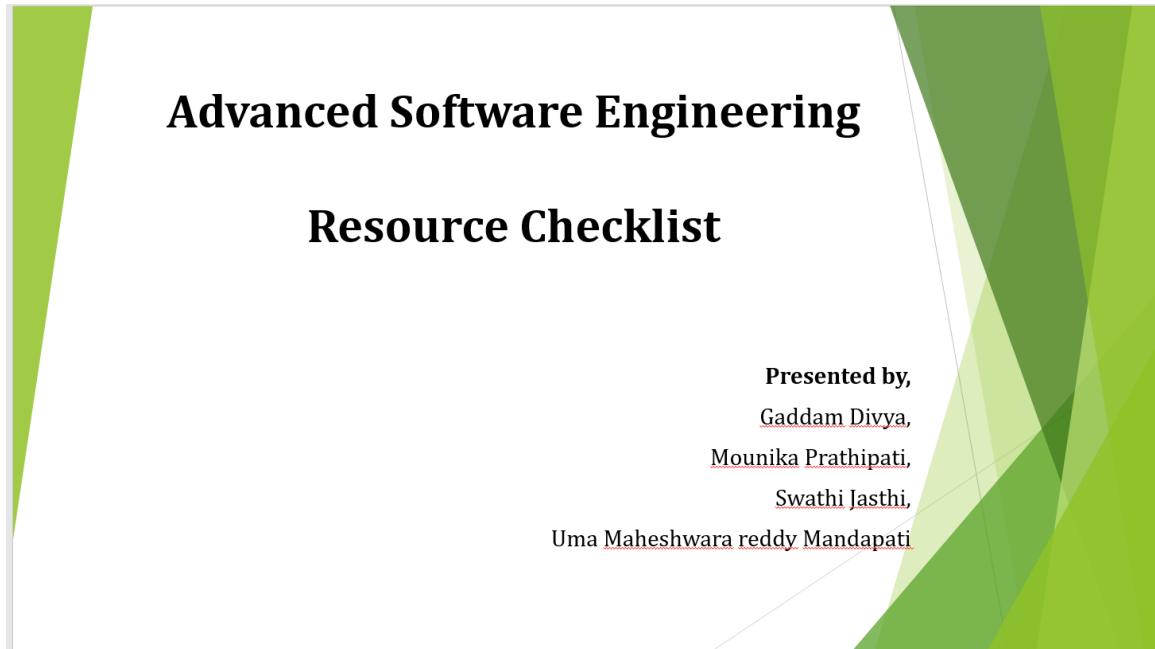
<https://developers.google.com/maps/documentation/javascript/get-api-key>

## Resource Checklist

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[https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k\\_zLKrnxl](https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k_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://creately.com/>  
<https://github.com/KeepSafe/android-resource-remover>

### Project Presentation Slides:



Presented by,

Gaddam Divya,

Mounika Prathipati,

Swathi Jasthi,

Uma Maheshwara reddy Mandapati

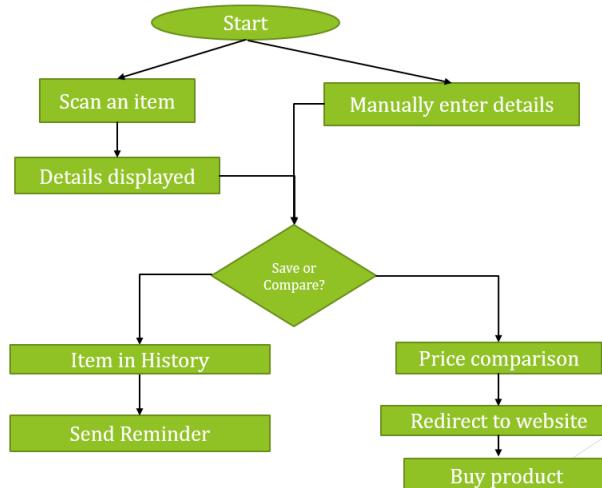
# Resource Checklist

## Problem statement

- ▶ To keep track of all lent items
- ▶ Search and update the item details to database
- ▶ Compare prices from different websites
- ▶ Buy the product with unbeatable price



## Process Flow



# Resource Checklist

## Technologies Used



**ZXing**



**upcitemdb**



**Android Content Provider**



## Features

- ▶ User can get the details of the product either by scanning it or by entering the details (product that doesn't have barcode).
- ▶ Information of the product is stored in History page.
- ▶ Send Email/text message to the borrower as a reminder on corresponding date & time.
- ▶ Comparing the prices of product and redirecting to appropriate website if he wish to buy.
- ▶ Uses SQLite database for the implementation of storing the details which can be viewed in history

## Resource Checklist

---

**GitHub URL for the final project:**

[https://github.com/SwathiJasthi/ASE\\_PROJECT/tree/master/Final%20project%20sourcecode](https://github.com/SwathiJasthi/ASE_PROJECT/tree/master/Final%20project%20sourcecode)

**YouTube URL for project presentation Video:**

<https://www.youtube.com/watch?v=w3su7RaBFOk>