



# **Resource Checklist**

**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.

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## 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:**

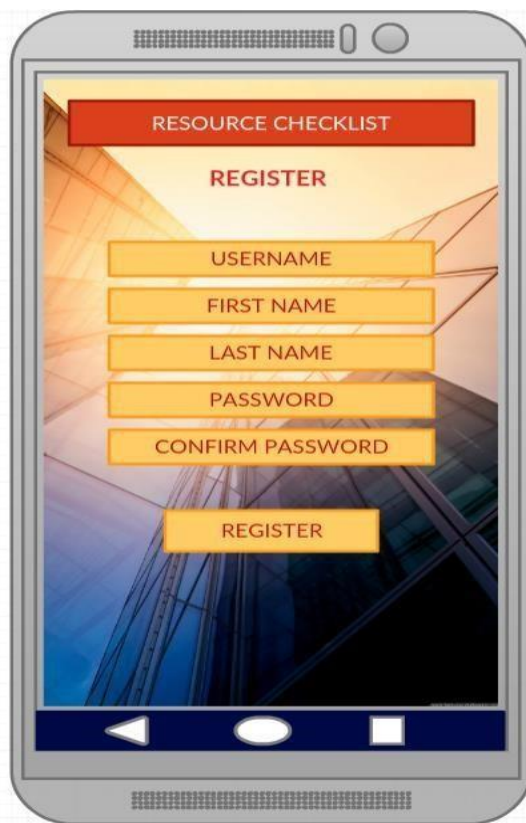
##### **Login Page:**

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## Resource Checklist



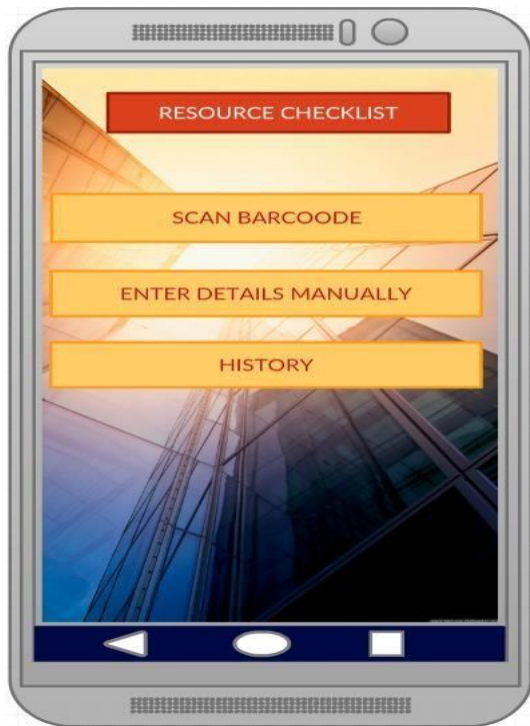
### Register Page:



### Home Page:

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## Resource Checklist



### Manual Entry:



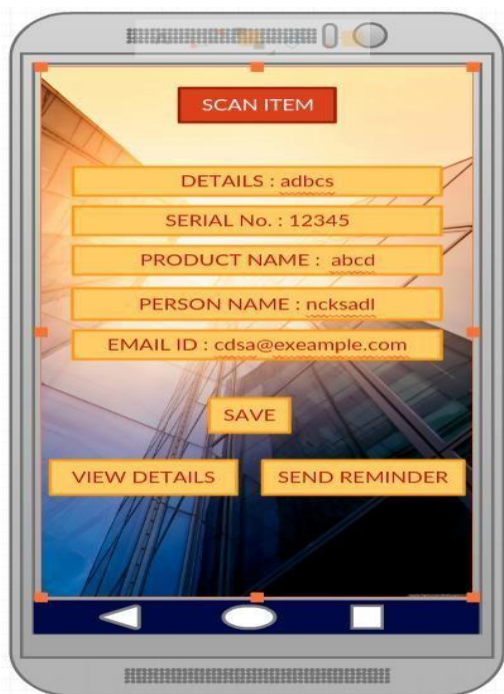
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## Resource Checklist

### Product Search:



### Scan Item:



### History:

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## Resource Checklist



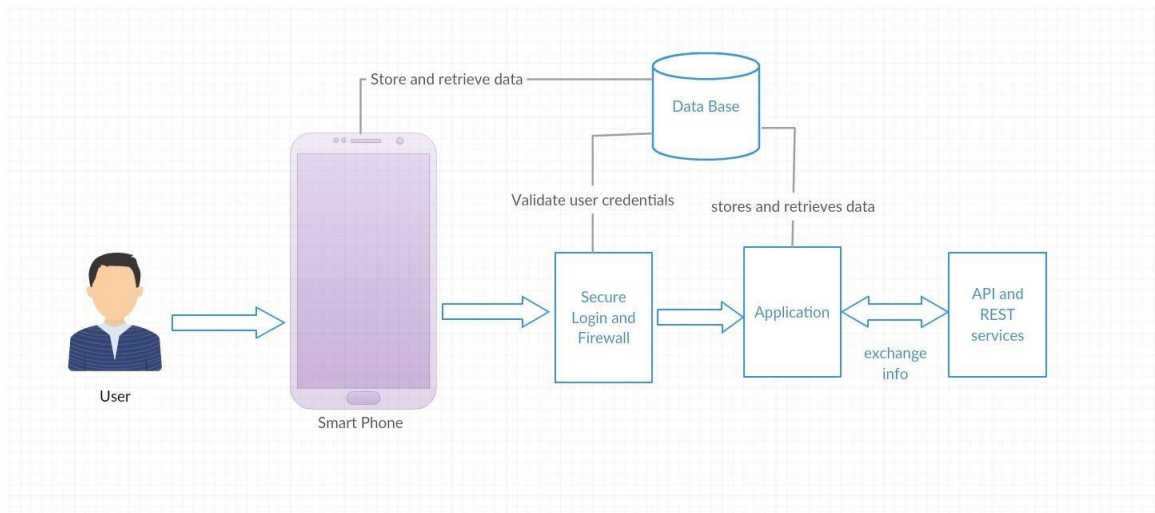
Selecting an item from history:



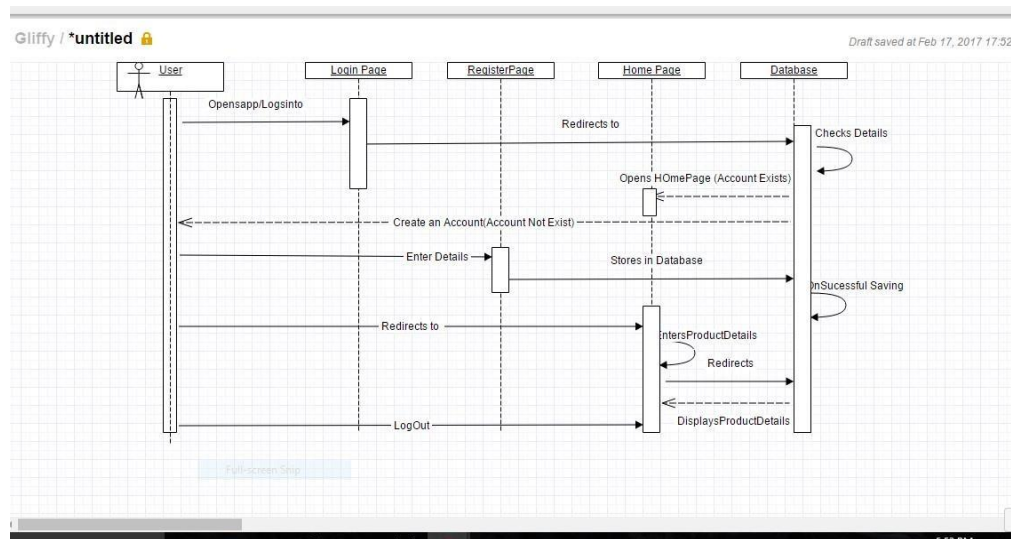
Architecture Diagram:



# Resource Checklist



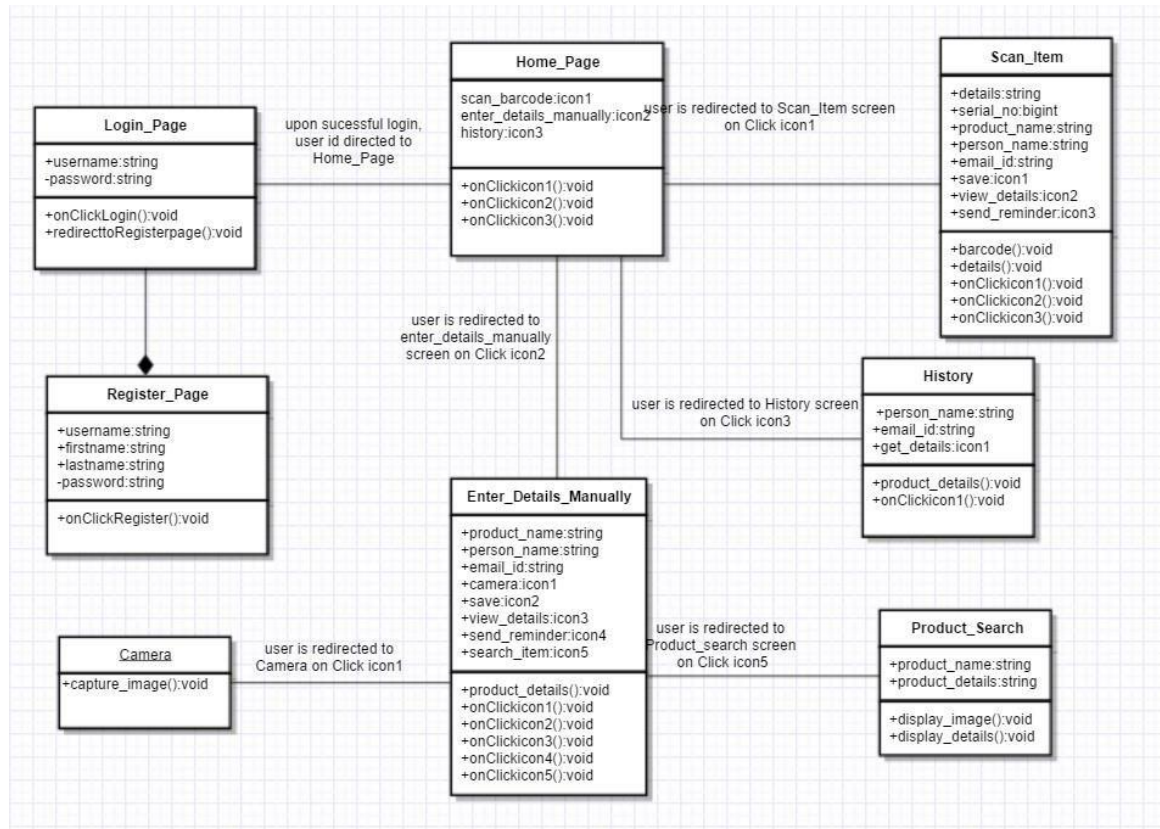
## Sequence Diagram:



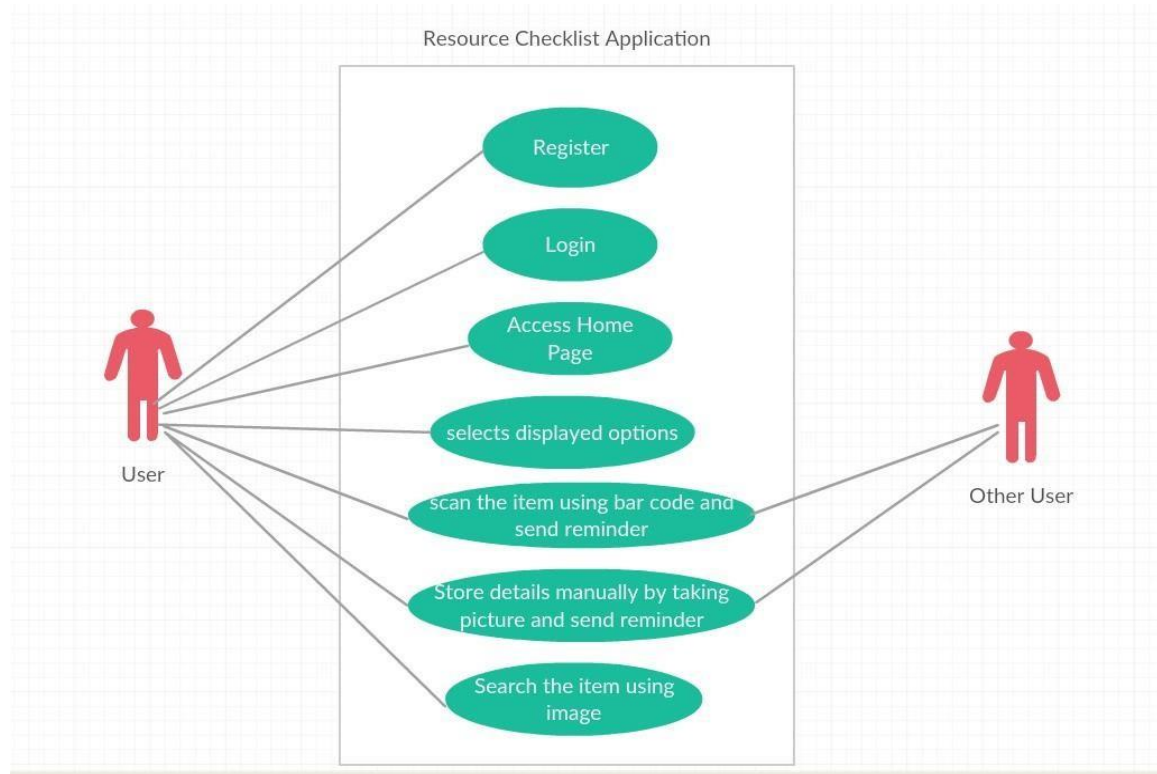
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## Resource Checklist

### Class Diagram:



## Use Case:



## User Stories:

1. Plan the increments to create resource management application.
2. Finalize the project plan and document the revised project plan.
3. As a user, I should be able to login into the resource checklist application.
4. As a user, I should to have options to register to the application to use it.
5. The user should be redirected to the Home Page after a successful login.
6. The user should have two options to enter a product details. One is through Barcode scanning and the other is to enter the details manually.
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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14 Open	8 Closed	Author	Labels	Projects	Milestones	Assignee	Sort
1			enhancement				
#22 opened 4 minutes ago by MounikaPrathipati Increment 3 New Issues							
1			enhancement				
#21 opened 7 minutes ago by MounikaPrathipati Increment 3 New Issues							
1			enhancement				
#20 opened 9 minutes ago by MounikaPrathipati Increment 3 Done							
1			enhancement				
#19 opened 11 minutes ago by MounikaPrathipati Increment 3 Backlog							
1			enhancement				
#18 opened 13 minutes ago by MounikaPrathipati Increment 3 Done							
1			enhancement				
#17 opened 13 minutes ago by MounikaPrathipati Increment 3 Backlog							

## BOARD:

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9 New Issues 3	9 Icebox 0	9 Backlog 3	14 In Progress 4	10 Done 4	9 Review/QA 0
ASE_PROJECT #13 create user stories and testcases Increment 2 enhancement		ASE_PROJECT #14 Add wireframes and mockups Increment 2 enhancement	ASE_PROJECT #10 Update register page Increment 2 enhancement	ASE_PROJECT #9 Updating Login page Increment 2 enhancement	
ASE_PROJECT #21 Testing positive and negative scenarios Increment 3 enhancement		ASE_PROJECT #19 Create user stories Increment 3 enhancement	ASE_PROJECT #12 Enhance User Interface Increment 2 enhancement	ASE_PROJECT #16 Update class, sequence, architecture diagrams Increment 2 enhancement	
ASE_PROJECT #22 Manually entering details page Increment 3 enhancement		ASE_PROJECT #17 Improving UI Increment 3 enhancement	ASE_PROJECT #15 Integrating and testing new changes Increment 2 enhancement	ASE_PROJECT #20 Updating Login, Register, and Home pages Increment 3 enhancement	
			ASE_PROJECT #11 Add facebook api - login with facebook Increment 2 enhancement	ASE_PROJECT #18 Modifying UML diagrams Increment 3 enhancement	

# Resource Checklist

## BURNDOWN CHART:

### Increment 3

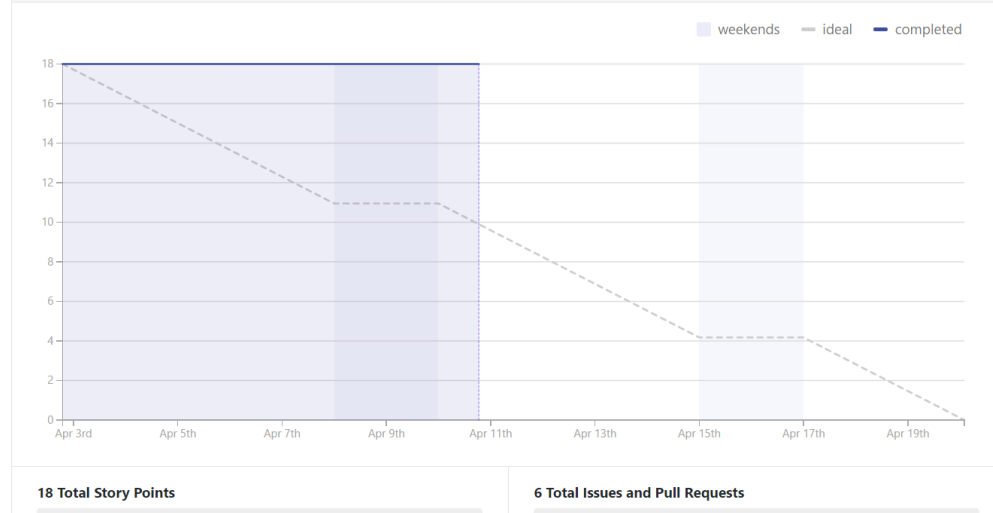
[Edit Milestone](#) [Milestones](#)

ASE Project Resource Check List - Increment 3

[Labels](#) [Hide Pull Requests](#)

[Burn Pipelines](#)

Start: **Apr 3, 2017** [Edit](#) Due: **Apr 20th, 2017** [Edit](#)



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## 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

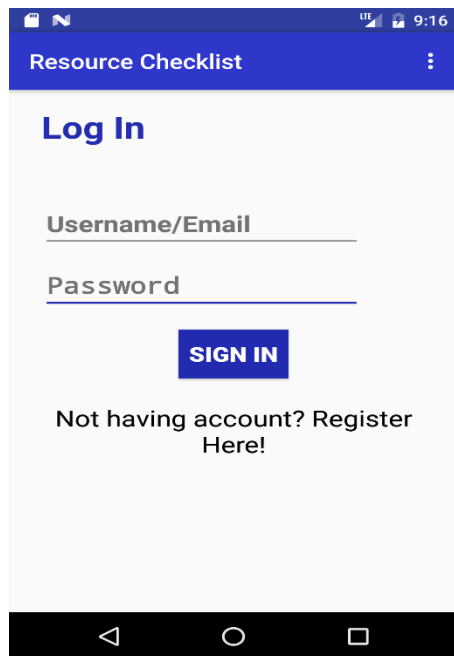
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## Resource Checklist

### Implementation:

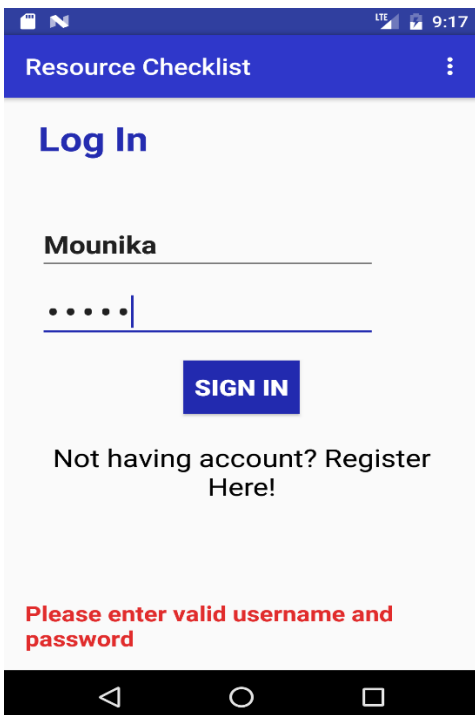
The “Resource Checklist” application has implemented in Android Studio onto an Android mobile. Below screenshots describes the flow

#### Login Page:



A screenshot of an Android application titled "Resource Checklist". The screen displays a "Log In" section with two input fields: "Username/Email" and "Password". Below these fields is a blue button labeled "SIGN IN". Underneath the button, there is a link that says "Not having account? Register Here!". The status bar at the top shows the time as 9:16 and LTE connectivity. The bottom navigation bar is visible.

#### Invalid Credentials:

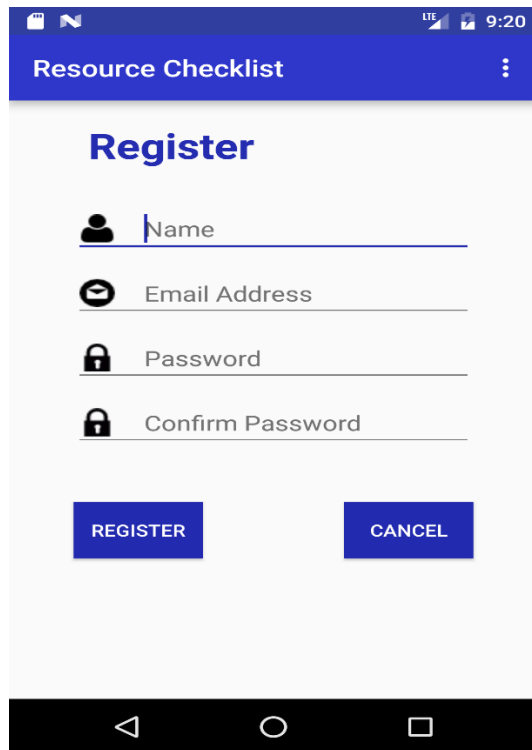


A screenshot of the same "Resource Checklist" application, but now showing an error message. The "Username/Email" field contains the text "Mounika" and the "Password" field is filled with dots. The "SIGN IN" button is still present. Below the button, the link "Not having account? Register Here!" is visible. At the bottom of the screen, a red error message reads: "Please enter valid username and password". The status bar at the top shows the time as 9:17 and LTE connectivity. The bottom navigation bar is visible.

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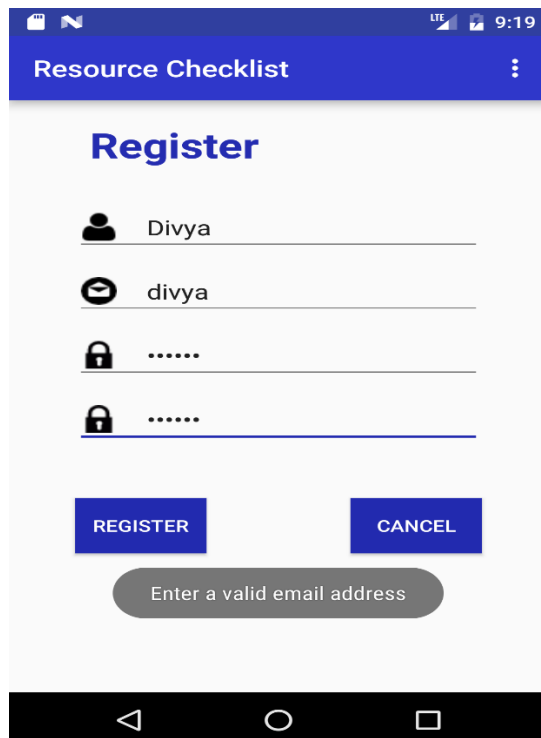
## Resource Checklist

### Registration Page:



The screenshot shows the 'Register' screen of the 'Resource Checklist' app. The app's header is blue with the title 'Resource Checklist' and a menu icon. The screen has a light gray background. The title 'Register' is in bold blue text. There are four input fields, each with an icon on the left: a person icon for 'Name', an envelope icon for 'Email Address', a lock icon for 'Password', and another lock icon for 'Confirm Password'. Below the fields are two blue buttons: 'REGISTER' and 'CANCEL'. The bottom of the screen shows the Android navigation bar with back, home, and recent apps icons. The status bar at the top shows LTE signal, battery, and the time 9:20.

### Invalid email-id:



This screenshot shows the same 'Register' screen as above, but with an error message. The 'Name' field is filled with 'Divya', the 'Email Address' field with 'divya', and both the 'Password' and 'Confirm Password' fields are filled with six dots. The 'REGISTER' and 'CANCEL' buttons are still present. A gray rounded rectangle at the bottom of the form area contains the text 'Enter a valid email address'. The bottom of the screen shows the Android navigation bar. The status bar at the top shows LTE signal, battery, and the time 9:19.



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## Resource Checklist

Password mismatch:

A screenshot of a mobile application titled "Resource Checklist" showing a "Register" screen. The screen has a blue header with the title and a menu icon. Below the header, the title "Register" is displayed in blue. There are four input fields: a name field with "Divya", an email field with "divyagaddam@gmail.com", and two password fields, both masked with dots. Below the fields are two blue buttons: "REGISTER" and "CANCEL". A grey error message box at the bottom states "Passwords do not match". The Android navigation bar is visible at the bottom.

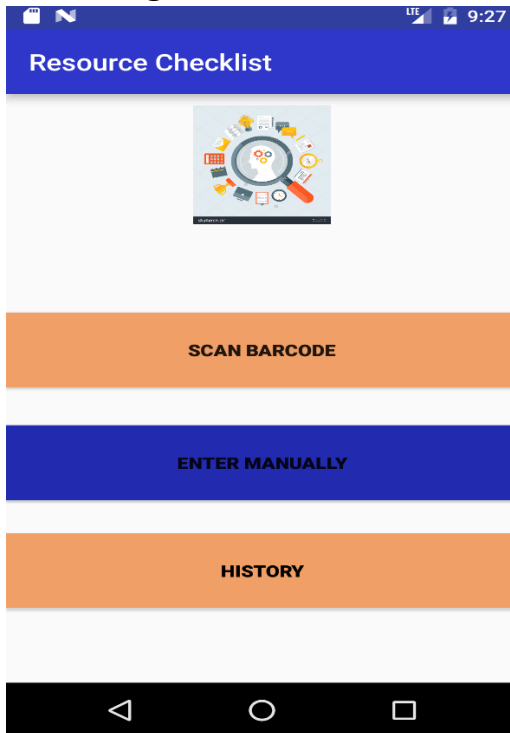
Invalid password:

A screenshot of the same mobile application titled "Resource Checklist" showing the "Register" screen. The fields and buttons are the same as in the previous screenshot. However, the error message box at the bottom states "Password should be atleast 4-6 alphanumeric". The Android navigation bar is visible at the bottom.

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# Resource Checklist

## Home Page:



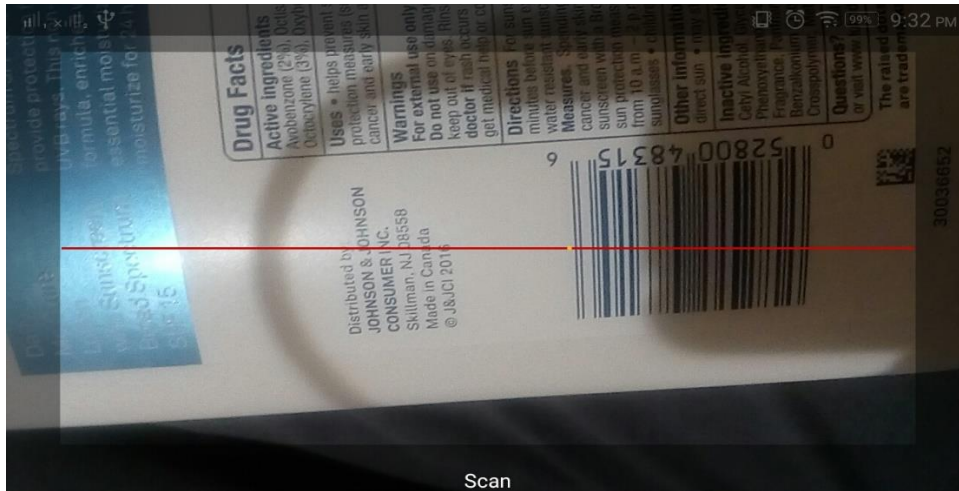
## SCAN ITEM:

A screenshot of the "SCAN ITEM" screen in the mobile application. It features a blue header bar with "Resource Checklist". Below the header is a light gray area. At the top of this area is a gray button labeled "SCAN". Below the button are five input fields, each with a label on the left and a text input area 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" input field is highlighted with a blue background. At the bottom of the input fields is a gray button labeled "SET REMAINDER".

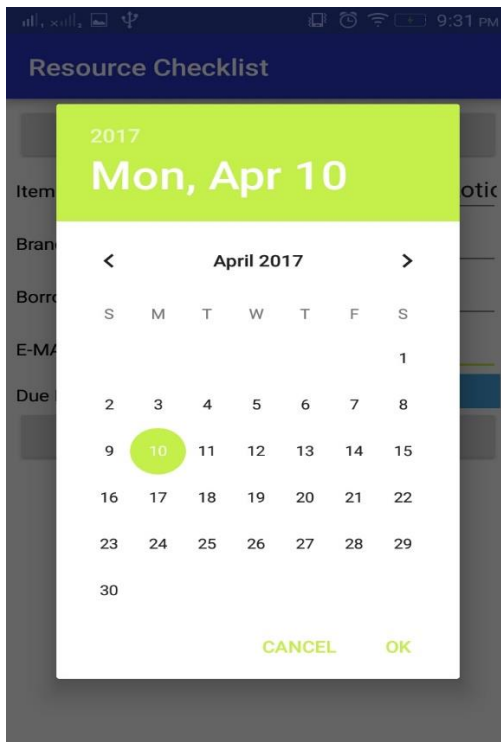
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## Resource Checklist

Scanning Item:



Calendar option for due date:



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# Resource Checklist

Details are populated after scan:

The screenshot shows a mobile app interface with a blue header bar labeled "Resource Checklist". Below the header is a grey button labeled "SCAN". Underneath is a form with the following fields:

Item Name	Lubriderm Daily Moisture Lotic
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". The status bar at the top shows the time as 9:30 PM.

## HISTORY:

The screenshot shows a mobile app interface with a blue header bar labeled "Resource Checklist". Below the header is a list of history entries:

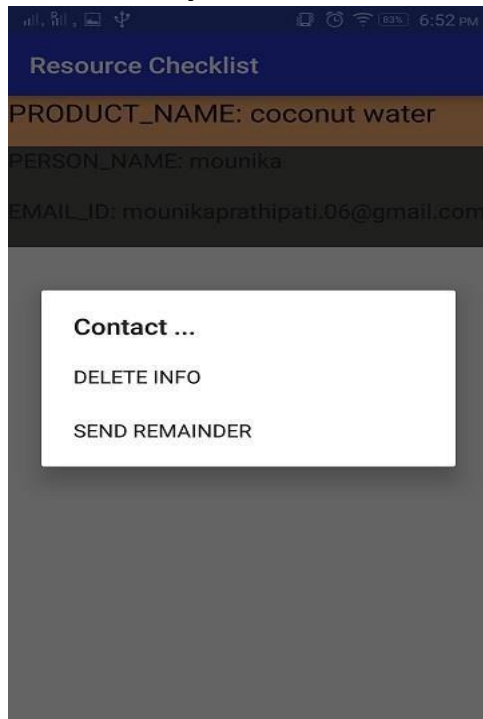
- PRODUCT\_NAME: coconut water
- PERSON\_NAME: mounika
- EMAIL\_ID: mounikapraphipati.06@gmail.com

The status bar at the top shows the time as 6:52 PM.

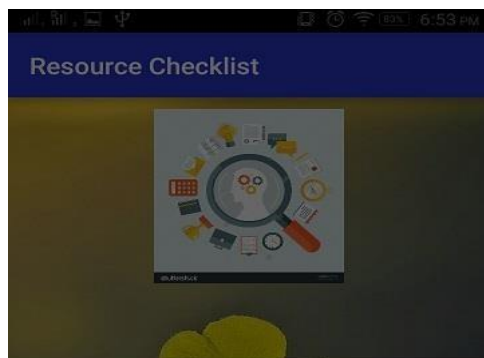
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## Resource Checklist

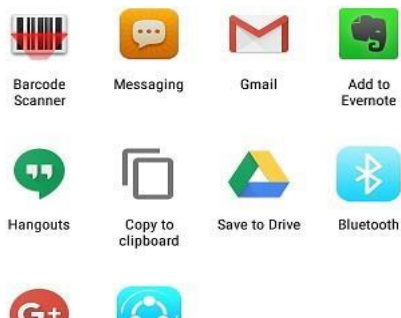
Select an entry to send reminder:



Sending Reminder:



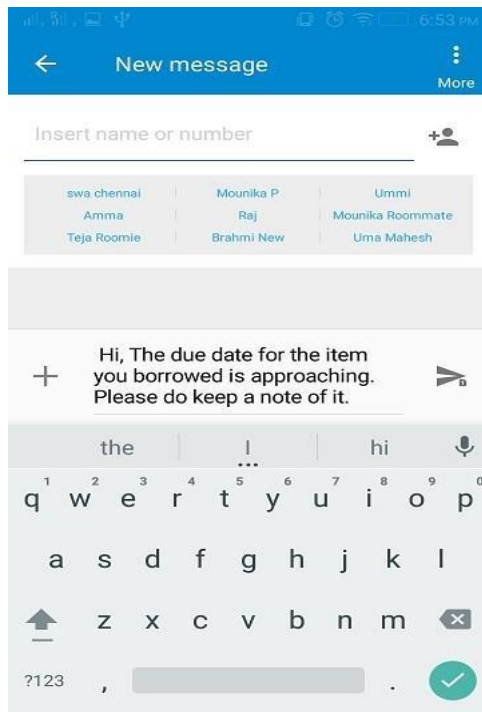
Send mail...



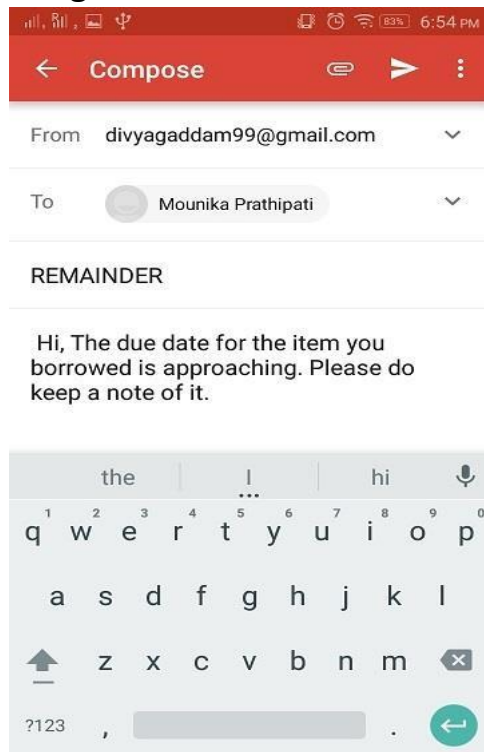
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## Resource Checklist

### Sending message:



### Sending email:



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## 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  
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

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## Resource Checklist

### **Bibliography:**

<https://developers.google.com/maps/documentation/javascript/get-api-key>  
[https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJ0zG4r4k\\_zLKrnxl](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>