



CS 5551 Advanced Software Engineering

First Increment Report

Team 5

- 1. Dosapati, Saidu Babu**
- 2. Vasireddy, Alaap**
- 3. Nooka, Nithin**
- 4. Cherukuri, Venkatesh**

PROJECT GOAL:

Users who are using smartphones do not know how they are spending time with their smart phones. Our aim is to collect all the user's information and present that data in an organized way to users by the end of the day. So, he can get good idea on how he is using his Smartphone. Our goal is to increase the productivity of users by this application.

Specific Objectives

- First, we need to find a way to collect the activity's in the background.
- Then we need to store all the data collected in a data base.
- Then we need to organize the data to show it to user in different formats. For example, apps with highest time used or most clicks or percentage.
- Then use Pie charts and histograms to represent the data.

Specific features

- User can see all his smart phone activities whenever he wants
- User can sort the time used by specific applications by day, week, month, year.
- User can see the data in pie charts and histograms
- User can request alerts based on specific activity time.

Significance

- This application can help people to better understand their digital life.
- It Helps them to focus on the thinks which are more important to them and avoid huge amount of time spending on whatever which is not useful.

BURNDOWN CHART

Project Increment 1

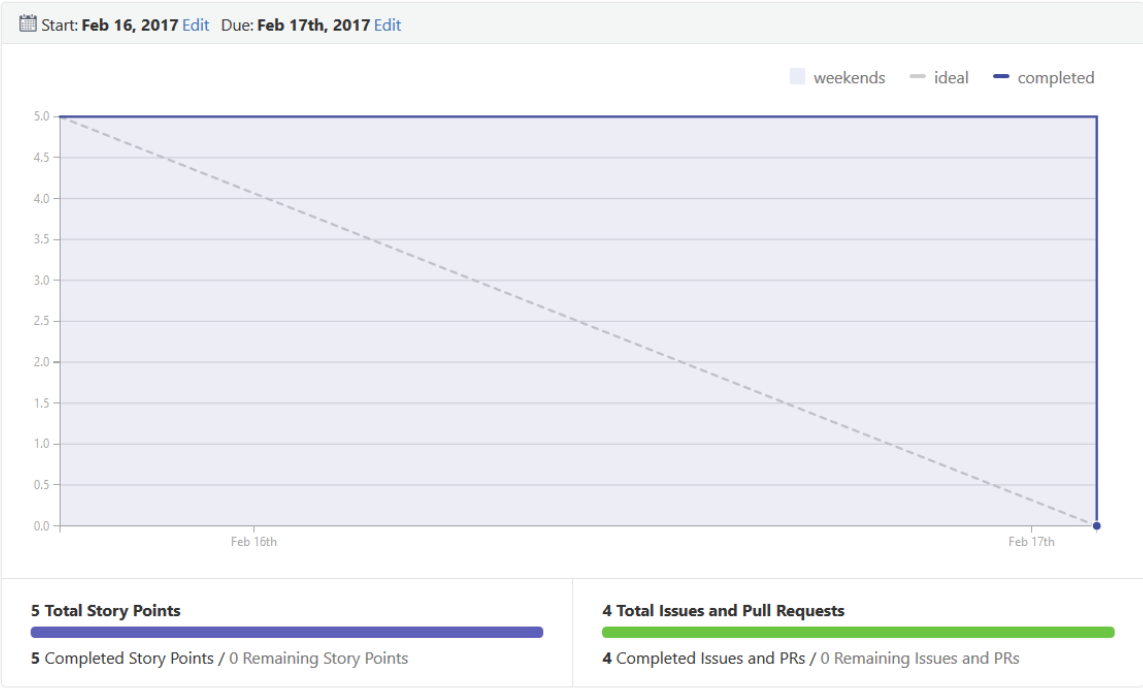
Edit Milestone

Milestones

Labels

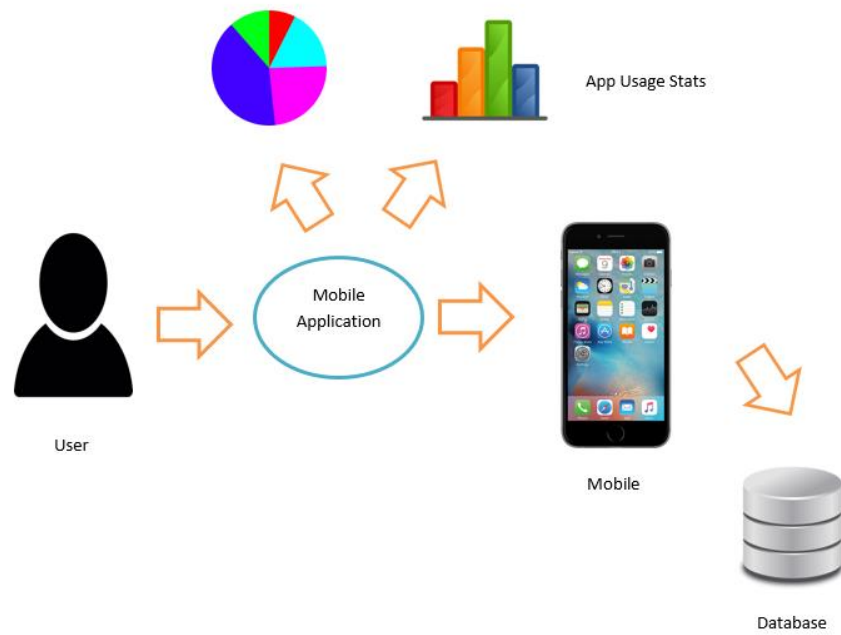
Hide Pull Requests

Burn Pipelines

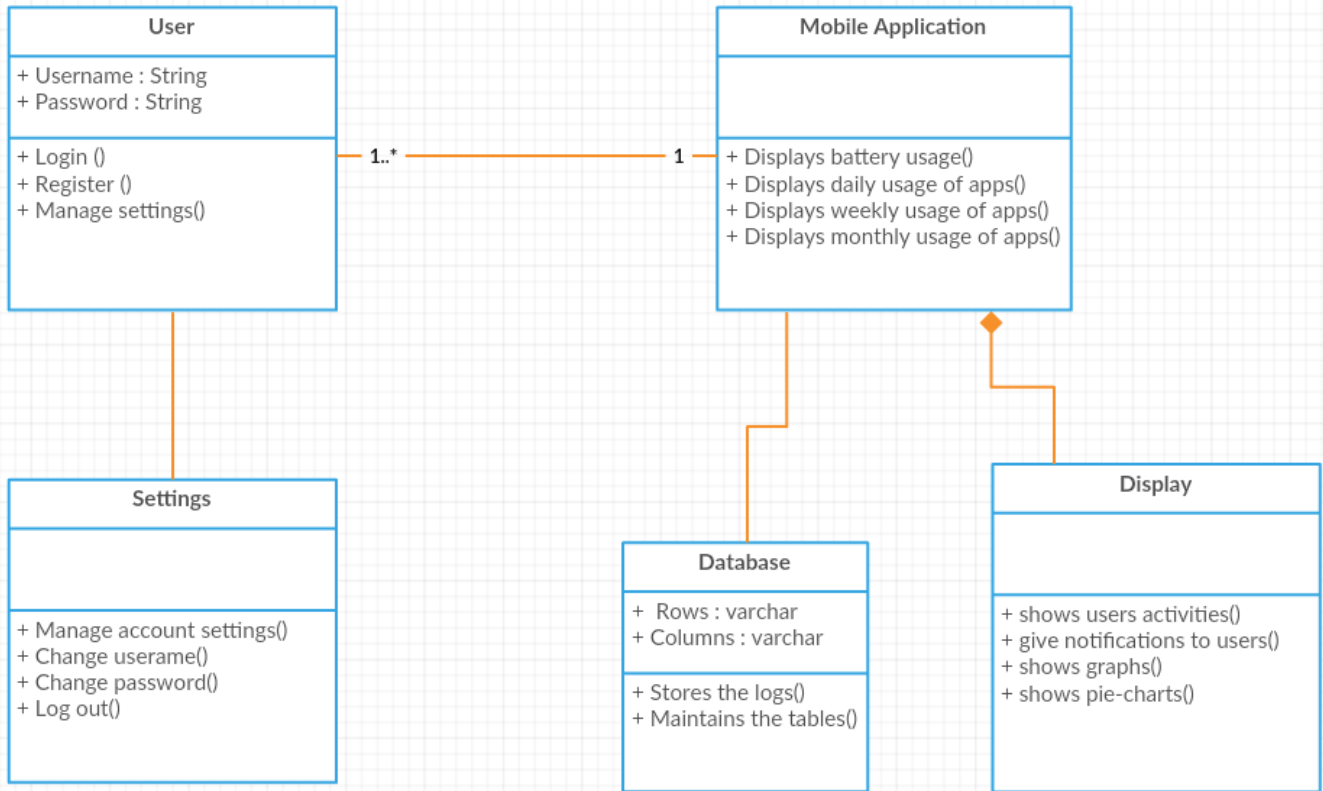


ARCHITECTURE DIAGRAM

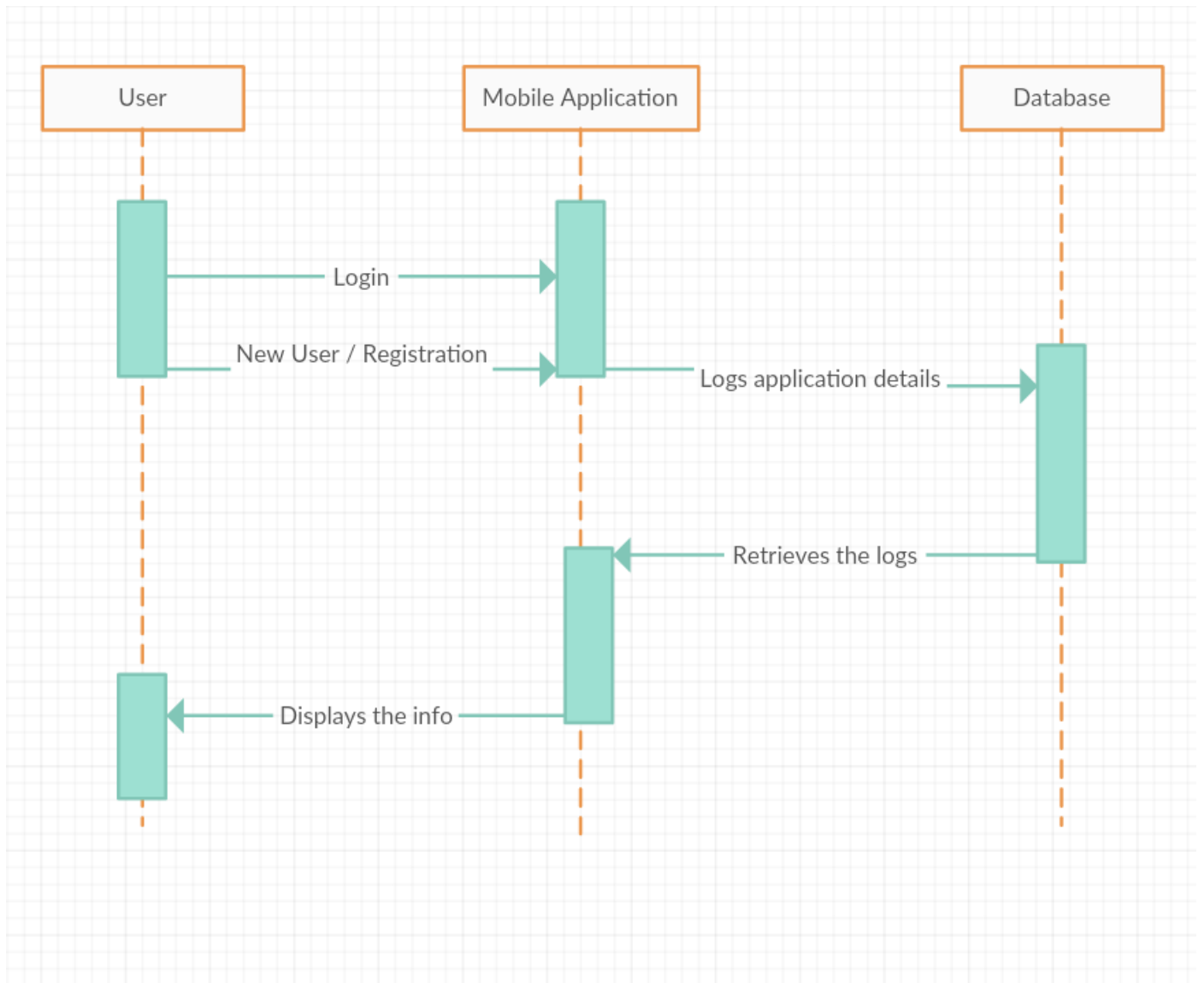
Software Architecture Diagram for our Mobile Application



CLASS DIAGRAM



SEQUENCE DIAGRAM



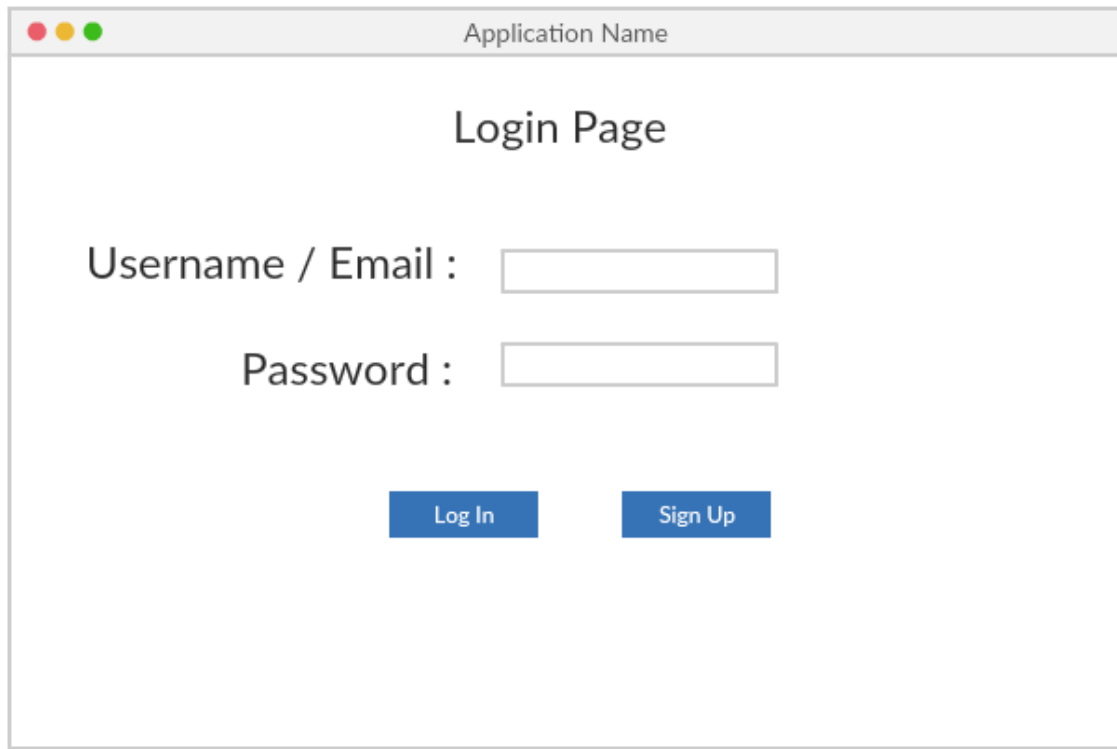
ISSUES

The screenshot displays a GitHub repository page for 'Nithin543 / Team_5_Project'. The interface includes a top navigation bar with options like 'Code', 'Issues' (4), 'Pull requests' (0), 'Boards', 'Reports', 'Projects' (0), and 'Wiki'. Below this, a secondary bar shows 'View', 'Repos (1/1)', 'Show one', 'Labels', 'Milestones', 'Assignees', and 'Epics'. A search bar and a 'New Issue +' button are also present. The main area features a Kanban board with six columns: 'New Issues' (4 items), 'Icebox' (0), 'Backlog' (0), 'In Progress' (0), 'Review/QA' (0), and 'Done' (0). The 'New Issues' column lists four tasks, each with a 'help wanted' label: 'Team_5_Project #5: Registration validation', 'Team_5_Project #4: Creating a registration page', 'Team_5_Project #3: Creating Login Page', and 'Team_5_Project #2: Collecting the logs'. Each task also indicates 'Project Increment 1'.

Tasks are divided among us, and we contributed our participation regularly and updated the tasks assigned to us. Milestone has been created and we achieved the results within the milestone.

WIREFRAMES:

- **Login Wireframe:**



A wireframe of a login page within a window titled "Application Name". The page has a title "Login Page" at the top. Below it, there are two input fields: "Username / Email :" and "Password :". At the bottom, there are two blue buttons: "Log In" and "Sign Up".

Application Name

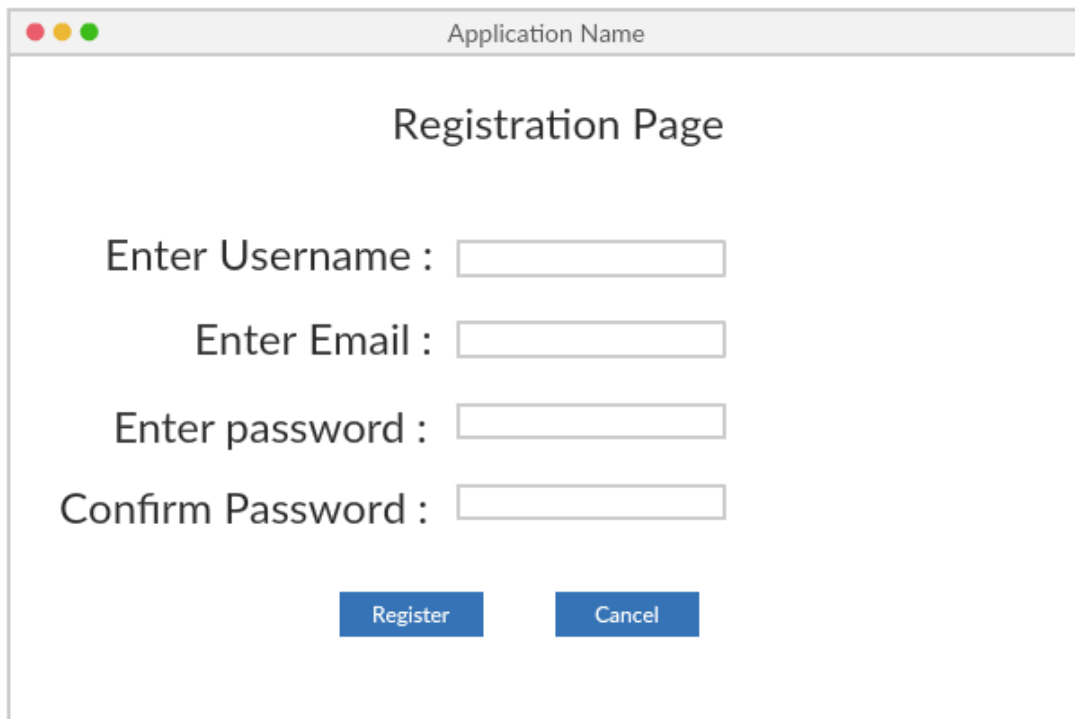
Login Page

Username / Email :

Password :

Log In Sign Up

- **Registration Wireframe**



A wireframe of a registration page within a window titled "Application Name". The page has a title "Registration Page" at the top. Below it, there are four input fields: "Enter Username :", "Enter Email :", "Enter password :", and "Confirm Password :". At the bottom, there are two blue buttons: "Register" and "Cancel".

Application Name

Registration Page

Enter Username :

Enter Email :

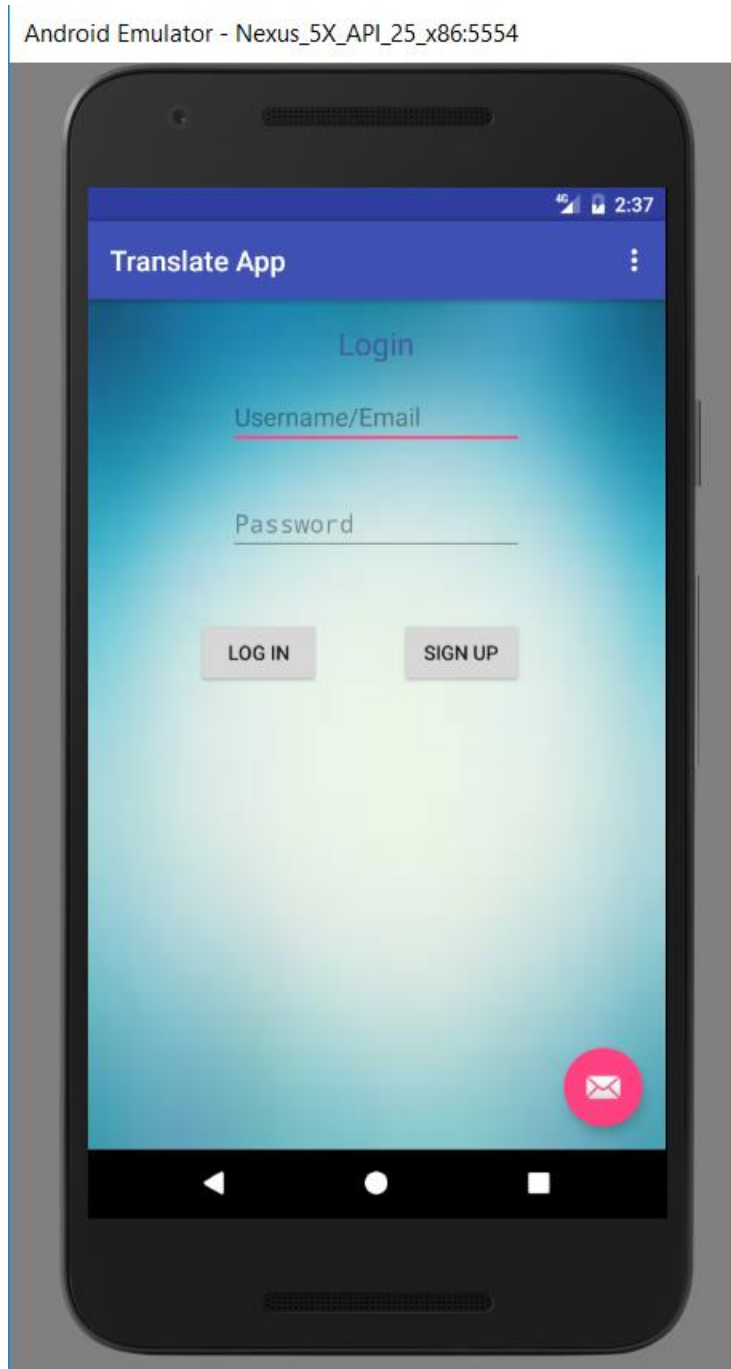
Enter password :

Confirm Password :

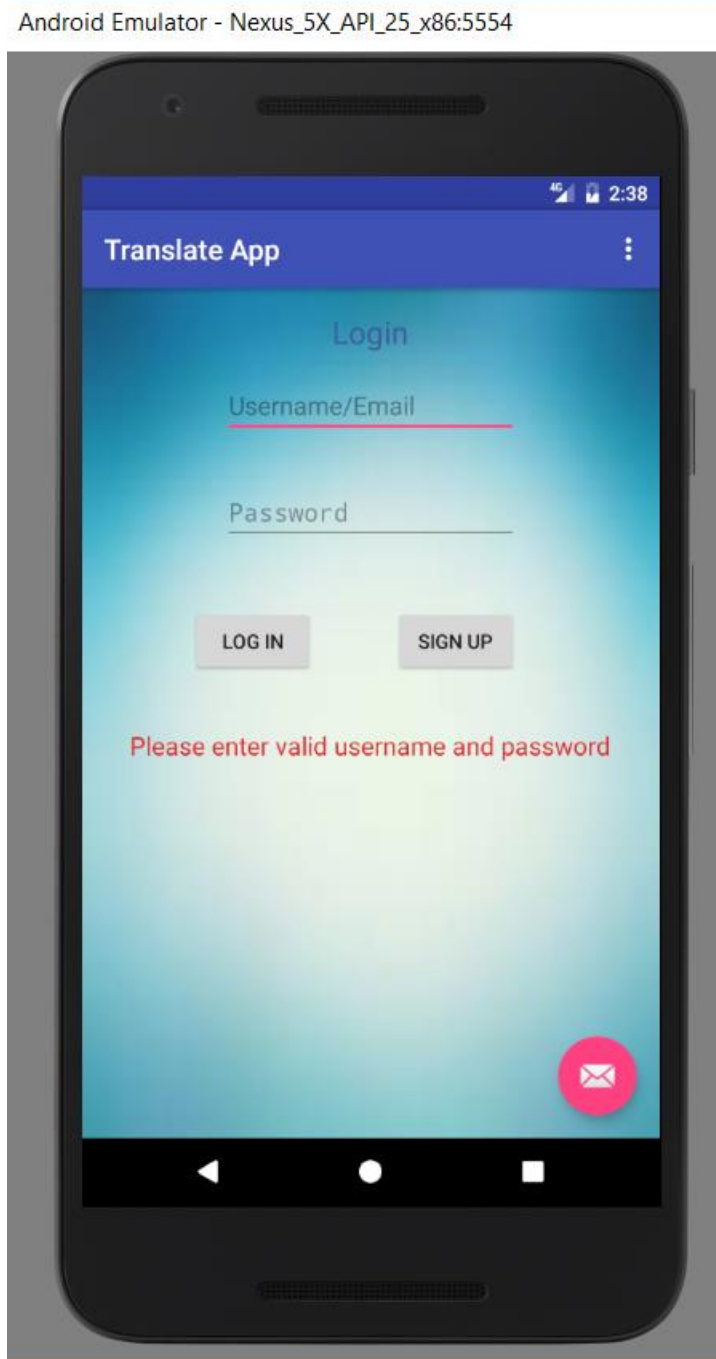
Register Cancel

MOCKUPS:

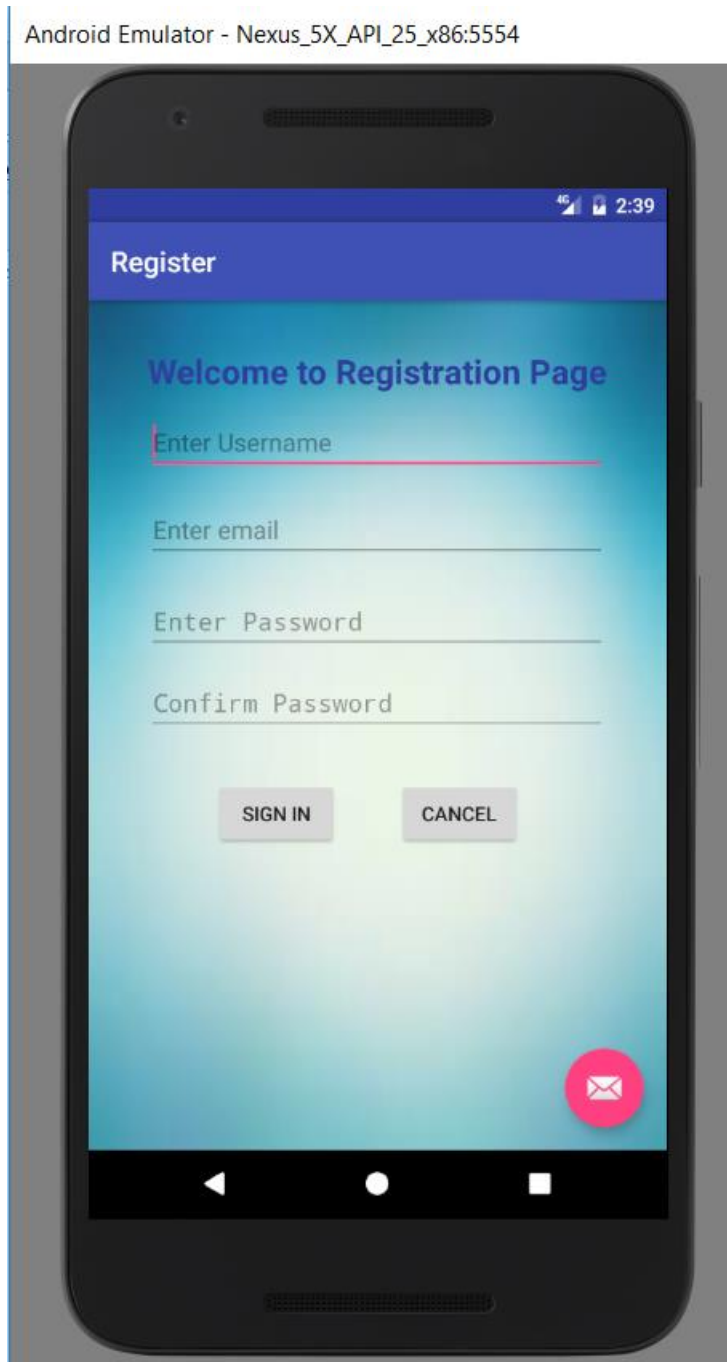
1. Login Page



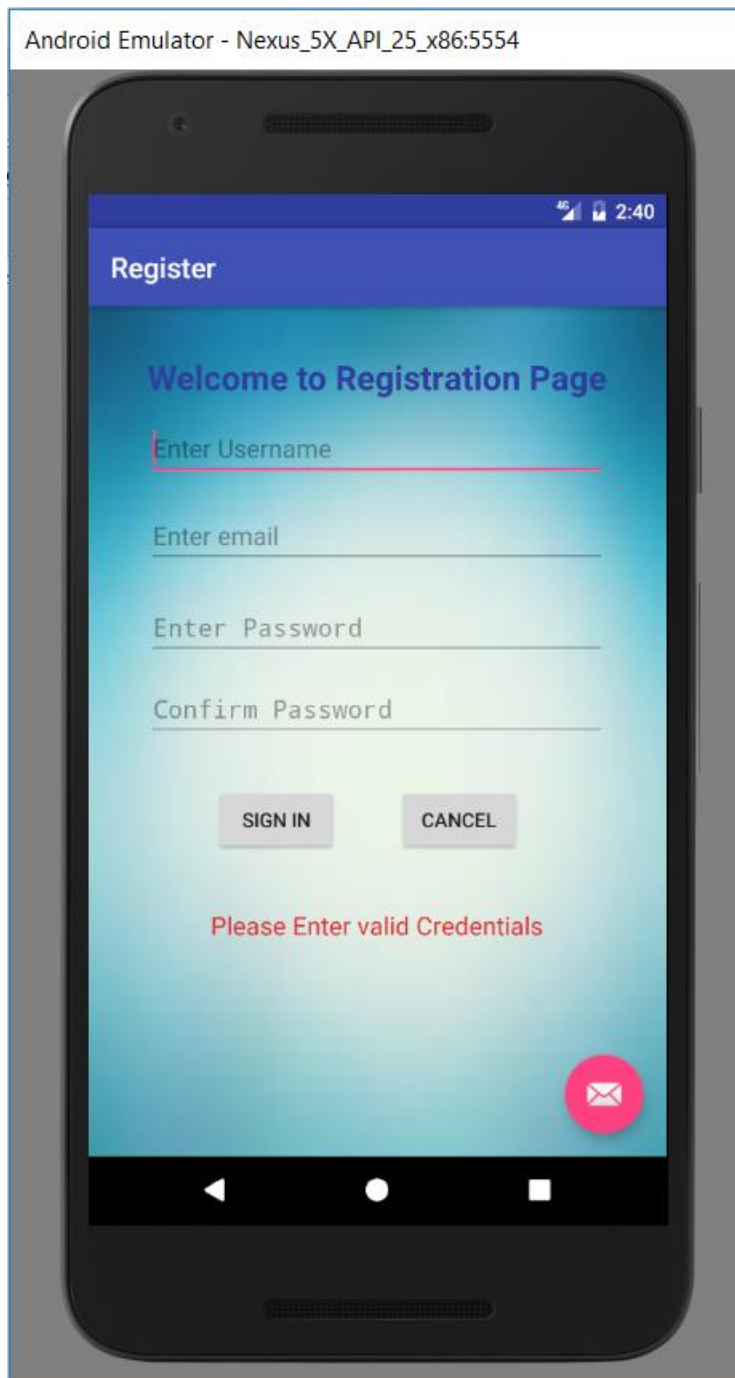
2. Login page validation:



3. Registration form page:



4. Registration form validation:



TEST CASES:

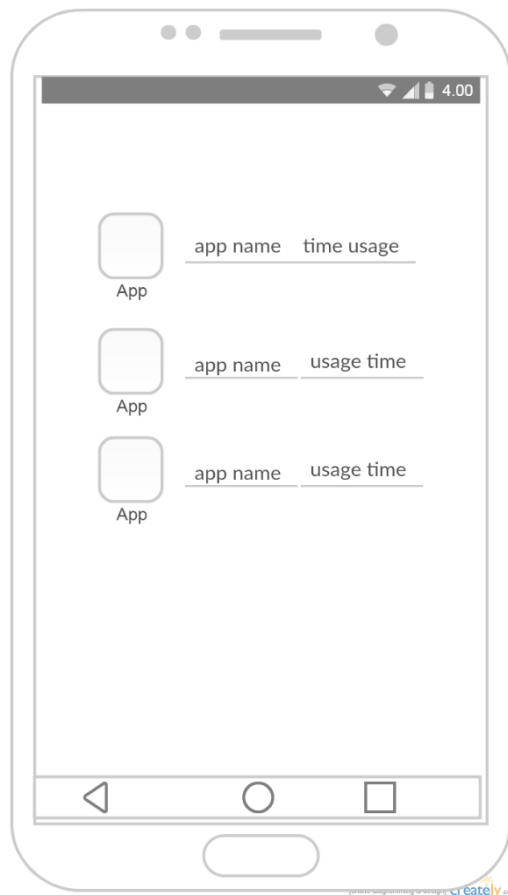
Test Case Name	Test Description	Expected Results	Pass/Fail
Login	Entered Invalid username and Invalid Password	Invalid Login Error Message should be displayed	Pass
	Entered Valid username and Invalid Password	Invalid Login Error Message should be displayed	Pass
	Entered Valid username and Valid Password	Application Should Be Redirected to Home page	Pass
Sign Up	Enter Email Id without @	Invalid Email id should be displayed	Pass
	Enter different confirm password	Invalid Error Message should be displayed	Pass
	Blank Spaces	Invalid Message should be displayed	Pass

Increment-2

Development for the increment 2:

1. Collected the logs data of the every application that is installed on the android mobile
2. Stored the collected logs into the SQLite database
3. Retrieved the application icon of the every application from the database
4. Displayed the icon aside of the application usage time per day

Wireframe:



Implementation:

- Implemented the activities required for the application.
- Implemented the SQLiteOpenHelper class which helps to connect to the database.
- Implemented the CursorAdapter class which is used to set the view template to be loaded to the list item.

Deployment:



Icon	Name	Duration
	Truecaller	0min
	Calendar Storage	0min
	Media Storage	0min
	Call settings	0min
	Runtastic Me	0min
	Lenovo Weather	0min
	Contact Manager	0min
	Download Manager	0min
	Habits	0min
	Power manager	0min
	Search Applications	0min
	Camera	0min

Bibliography:

- [Stackoverflow.com](#)
- [Developer.android.com](#)