

Advanced Software Engineering

Project Increment-1



Smart Health

Team_7_The_Mavericks

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1. Introduction

Smart Health

In frequent change of climatic conditions, it is usual to fall sick. In our day to day lives, we don't have enough time to go to the hospital and it is hard to know the disease despite knowing the symptoms and sometimes we don't know the basic health remedies. Thus, we here try to afford an immediate assistance and medication to the user based on his symptoms for feeling ill.

2. Project Goal and Objectives

Overall Goal:

In the present scenario. People are very busy with their day to day tasks. They don't have enough time to consult doctor. Our application makes their tasks simple and easier.

Significance:

Today we can see a bundle of applications for medical assistance, but our application stands out among all. In this application user enters symptoms that he senses and will acquire the diseases which are connected with the symptoms he entered. And also user is assisted with the nearest pharmacy location and the Doctor available nearby.

Objectives:

The main objective of developing this project is to make user's work simple and easy. The tasks to be performed in this application are the user can get the details of the disease based on the symptoms entered. He can get see the categeory of the disease and he can find specialist for that disease. He can choose an option to find the nearest medical stored based on the current location.

System Features:

- Login Page for User.
- Register page for User where he can create a account to get access for the application.
- In case of emergency it will detect the location of the pharmacy store nearby.

3. Project Plan

ZenHub Screenshot:

For Increment 1 we worked on issues regarding login and register pages. And also worked on implementing **FourSquare API**. In the next increment we are planning to implement login through google signin and also on Drug API which detect the disease based on the symptoms entered by the user. It will categorise the disease and it will suggest the specialist doctor available in that particular location

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<input type="checkbox"/>	🔔 Creation of Architecture Diagram 1	#8 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					
<input type="checkbox"/>	🔔 Creation of Use Case(UML) Diagram 1	#7 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					
<input type="checkbox"/>	🔔 Writing Test Cases for the application 1	#6 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					
<input type="checkbox"/>	🔔 Implementation of FourSquare API 2	#5 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					
<input type="checkbox"/>	🔔 Design and Implementation of Login/Register for the application 2	#4 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					
<input type="checkbox"/>	🔔 Creation of Sequence Diagram (UML) 1	#3 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					
<input type="checkbox"/>	🔔 Creation of Class Diagram (UML) 1	#2 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					
<input type="checkbox"/>	🔔 Creating Wire Frame for the application 1	#1 opened an hour ago by vinaysanthosham 🏷 Increment1 New Issues					









Filters ▾
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Milestones
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✕ Clear current search query, filters, and sorts

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<input type="checkbox"/>	🔔 Creation of Use Case(UML) Diagram 1	#7 by vinaysanthosham was closed 35 seconds ago 🏷 Increment1					
<input type="checkbox"/>	🔔 Creation of Class Diagram (UML) 1	#2 by vinaysanthosham was closed 43 seconds ago 🏷 Increment1					
<input type="checkbox"/>	🔔 Creating Wire Frame for the application 1	#1 by vinaysanthosham was closed a minute ago 🏷 Increment1					

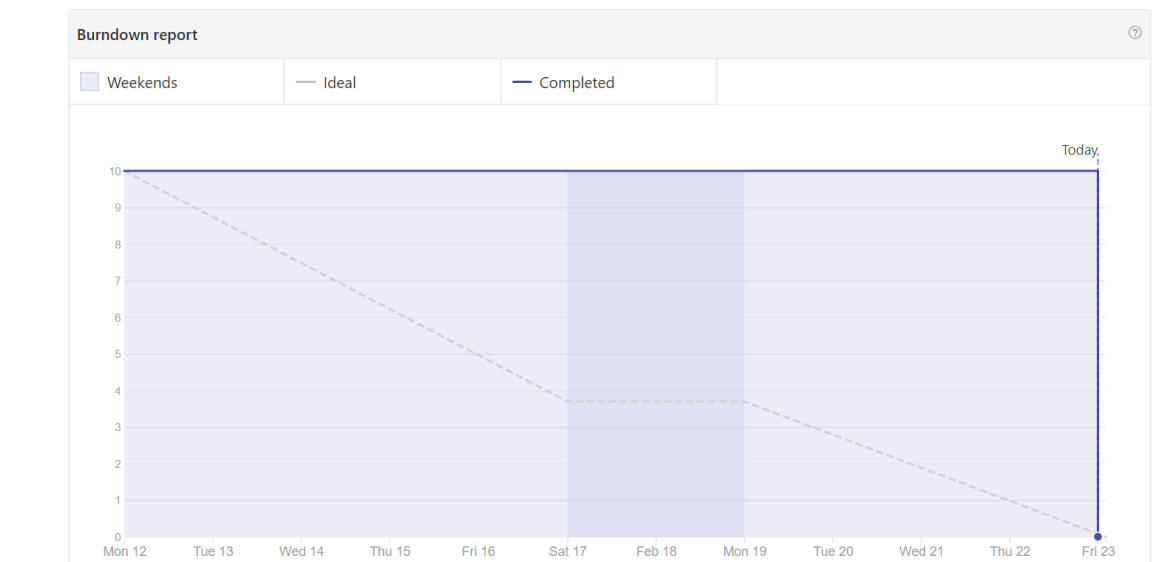
💡 ProTip! Ears burning? Get @sirisha1206 mentions with [mentions:sirisha1206](#).

✕ Clear current search query, filters, and sorts

<input type="checkbox"/>	🕒 0 Open ✓ 8 Closed	Author ▾	Labels ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	🔄 Creation of Architecture Diagram 1 #8 by vinaysanthosham was closed 3 minutes ago 📈 Increment1						
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<input type="checkbox"/>	🔄 Creation of Class Diagram (UML) 1 #2 by vinaysanthosham was closed 3 minutes ago 📈 Increment1						
<input type="checkbox"/>	🔄 Creating Wire Frame for the application 1 #1 by vinaysanthosham was closed 3 minutes ago 📈 Increment1						

Burndown Chart:

Based on issues created in milestones in github we are able to draw below burndown chart.



4. **First Increment Report**

Existing Services/REST API

Google API:

Apart from manual Sign In, we also included google sign with Google API using OAuth 2.0 so that users can login with their respective existing accounts.

FourSquare API:

This API is used to get nearest pharmacy stores when location is given as input for the application.

Ionic Framework:

This framework is used mainly because to run the application in all types of devices i.e in Web, Android and IOS.

API's To Be Used:

- Google Maps
- apiMedic

Detail Design of Features (using tools)

WireFrames:

1. Login Page:

The wireframe shows a login interface within a browser window. It includes input fields for 'User Name/ Email' and 'Password', followed by 'Log In' and 'Register' buttons. Below these is an 'OR' separator and a 'Sign In with Google' button featuring the Google logo. The bottom right corner contains the 'createely' logo and the text 'www.createely.com • Online Diagramming'.

Smart Health - Log In Page

User Name/ Email:

Password:

Log In

Register

OR

 Sign In with Google

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2. Register Page:

Smart Health - User Registration Page

User Name:

First Name:

Last Name:

Email:

Password:

Confirm Password:


[Register](#)


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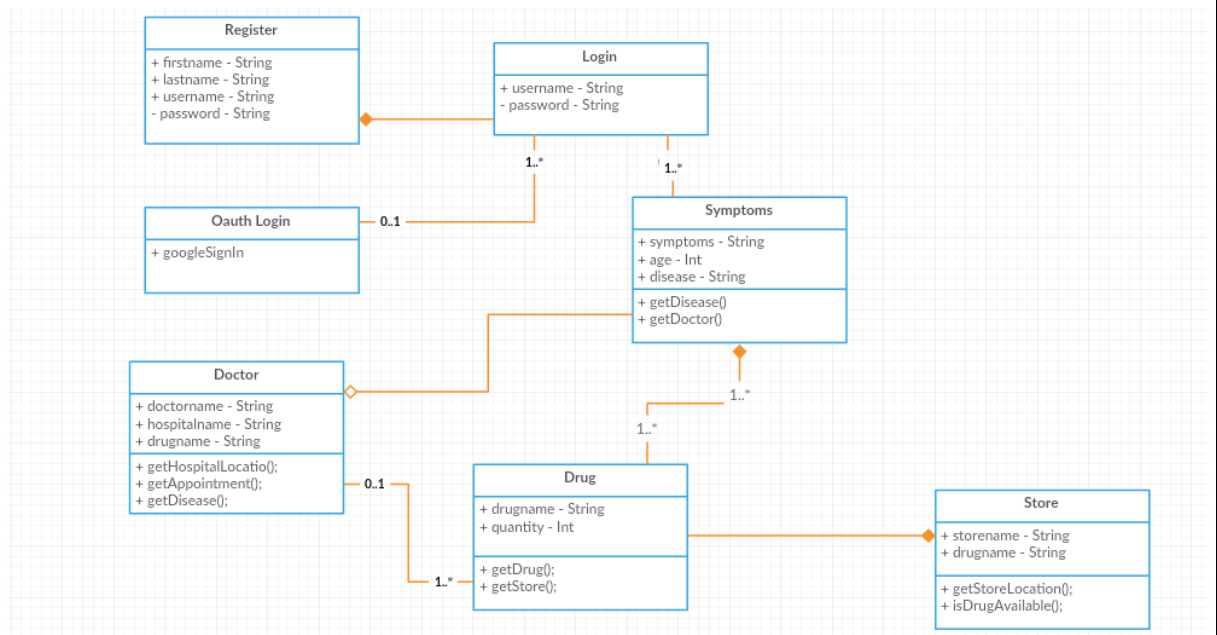
3. Home Page:

Smart Health _ Home Page

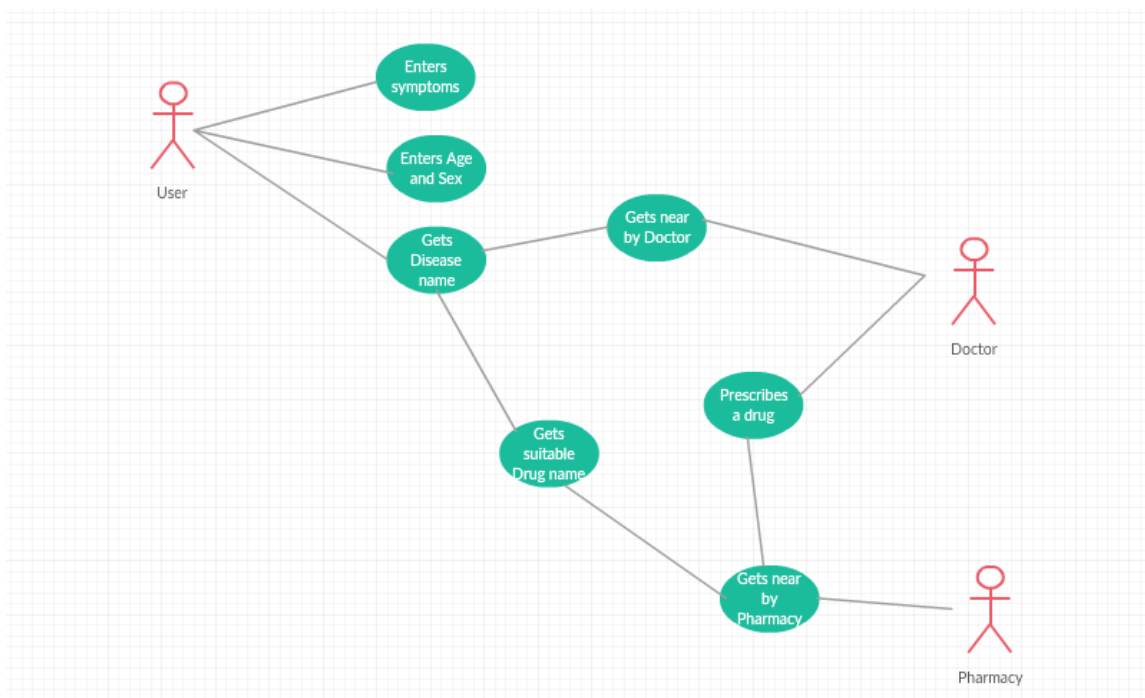
[Home Page](#) [Find Disease](#) [Find Pharmacy](#) [Find Doctor](#) [Log Out](#)


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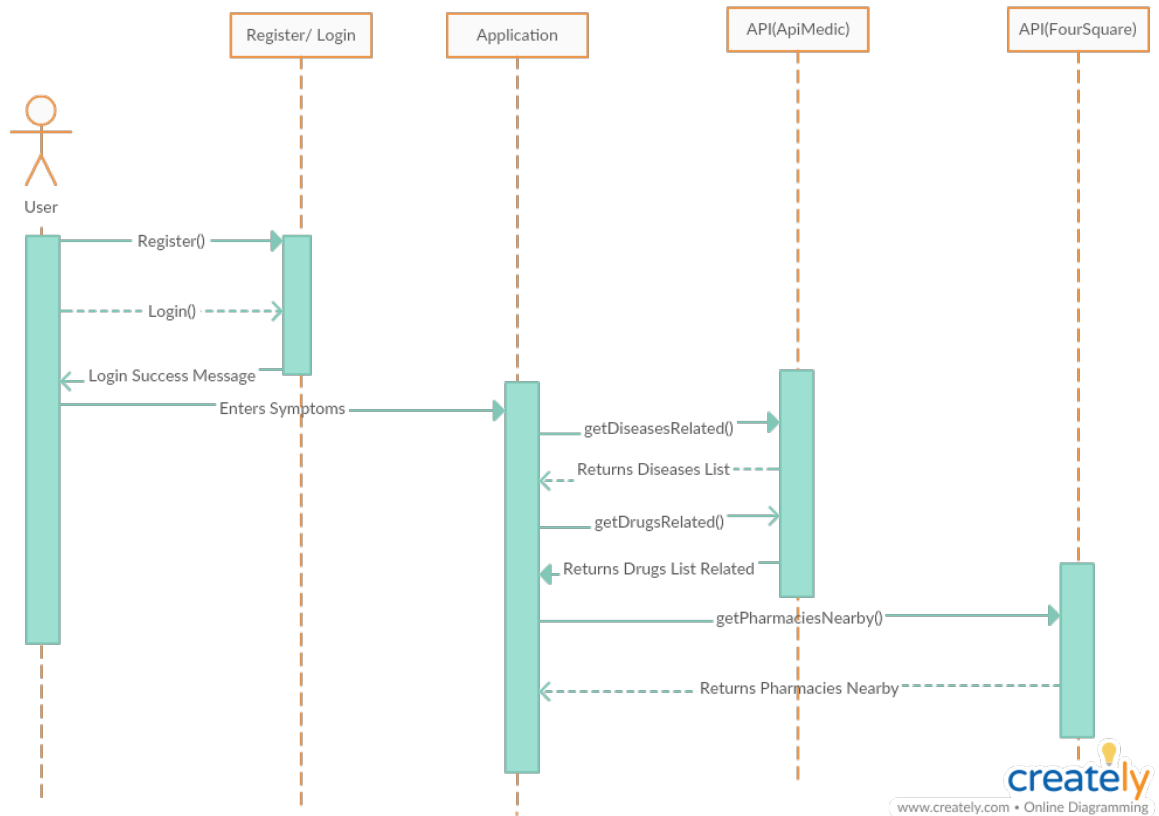
4. Class Diagram:



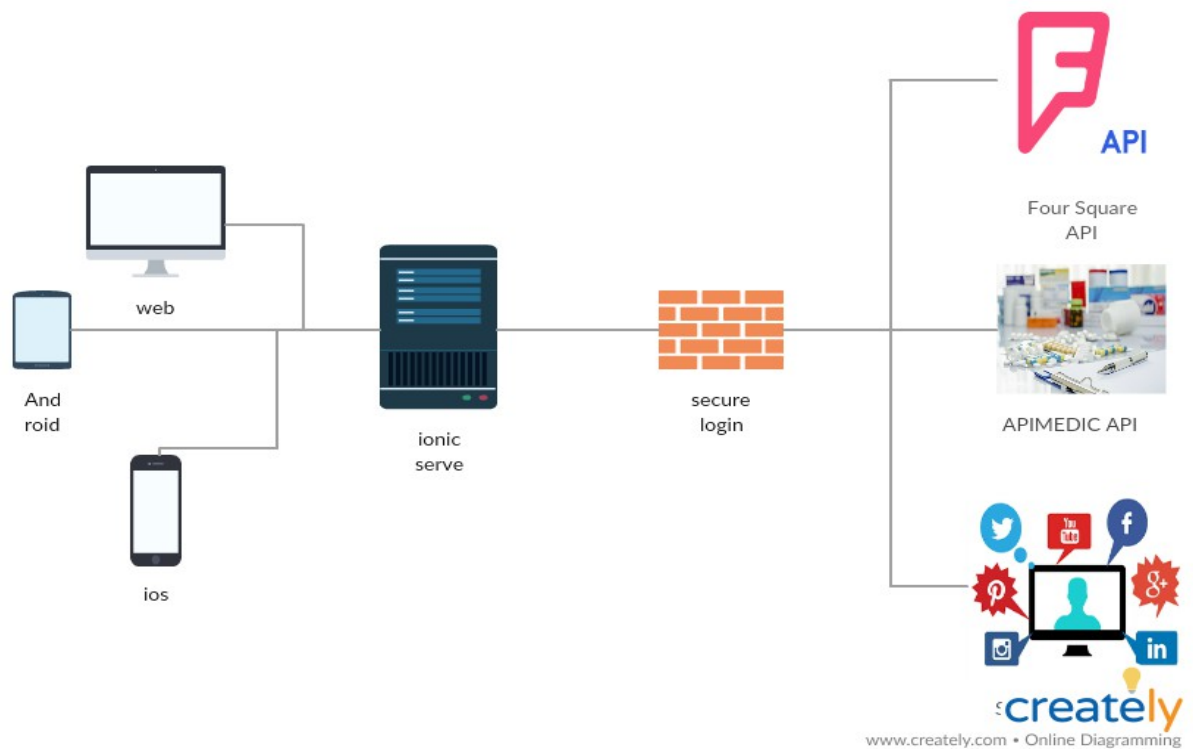
5. Use Case Diagram:



6. Sequence Diagram:



7. Architecture Diagram:



User Stories:

As..	Conditional	I want..	So...
User	Who is authorized to enter symptoms.	To enter the symptoms he has	He can get disease for the symptom.
User	Who gets disease symptoms	To get the disease symptoms	He will go to nearby doctor for prescription.
User	Who goes to a doctor	To get the drug for the disease	The doctor will give prescribed medicine based on the symptoms.
User	Who goes to nearby pharmacy store	To get the prescribed drug.	His disease gets cured.

Unit Testing:

Case	Test Case	Expected Outcome	Actual Outcome	Result
Login	Enter Invalid Credentials	Should popup an error message showing that "Enter a valid username or password"	An error message is popped up showing "Enter a valid username or password"	Pass
Login	Enter Invalid Username and valid password	Should popup an error message showing that "Enter valid username or password"	An error message is popped up showing "Enter valid username or password"	Pass
Login	Enter valid Username and Incorrect password	Should popup an error message showing that "Enter valid username or password"	An error message is popped up showing "Enter valid username or password"	Pass
Login	Enter valid Credentials	Should redirect to Home page	Redirects to Home page	Pass
Register	Enter Invalid mail Id	Should throw an error stating that "Email format is Invalid"	Throws an error stating that "Email format is invalid"	Pass
Register	Enter different Password and Confirm password	Should throw an error stating that "Passwords	Throws an error stating that	Pass

		must match”	“Passwords must match”	
Register	Enter all the valid values into the field	Should redirect to Login Page	Redirects to Login page	Pass

5. Implementation and Deployment

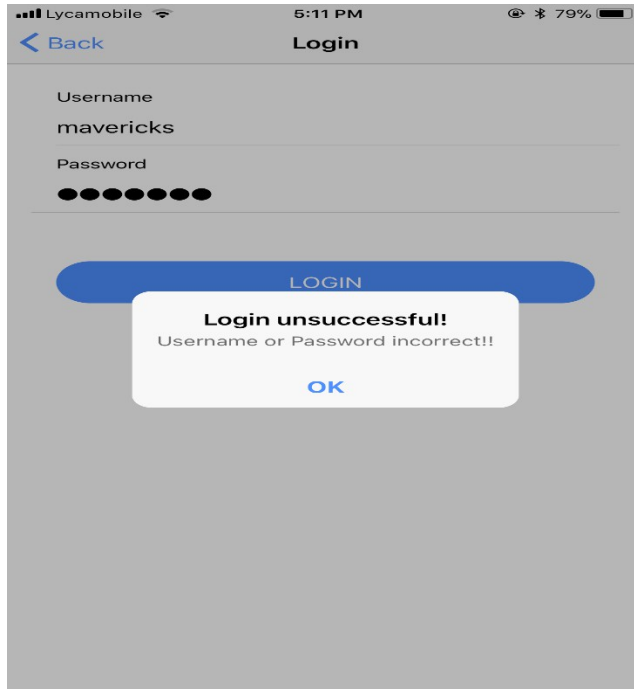
We developed our application using ApiMedic and FourSquare API's. Process flow of our application is mentioned as steps in the below screen shots.

Login Page:

1.Login page design and user input fields are mentioned here for the application.

The screenshot shows a mobile application interface for a login page. At the top, there is a status bar with 'Lycamobile' as the carrier, signal strength bars, a Wi-Fi icon, the time '5:09 PM', and a battery icon showing '79%'. Below the status bar is a light gray header bar with a blue arrow and the text 'Back' on the left, and the text 'Login' in the center. The main content area has a white background. It contains two input fields: 'Username' and 'Password'. Below these fields is a blue rounded rectangular button with the text 'LOGIN' in white capital letters.

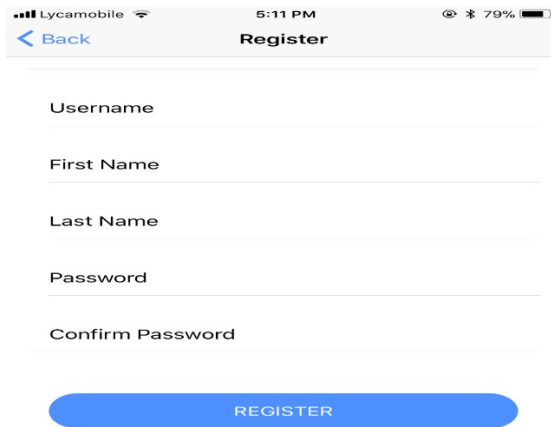
2. On successful login :



Registration:

Before logging in, any user he should register to get account access. Register page contains different fields to enter such as Username, Firstname, Lastname, Password and Confirm Password with validations for password.

1. Below we can see screenshots for **Register page**.



A mobile app registration form titled "Register" with a "Back" button. The form contains five input fields: "Username", "First Name", "Last Name", "Password", and "Confirm Password". Below the fields is a blue "REGISTER" button. The status bar at the top shows "Lycamobile", "5:11 PM", and "79%" battery.

Register

Username

First Name

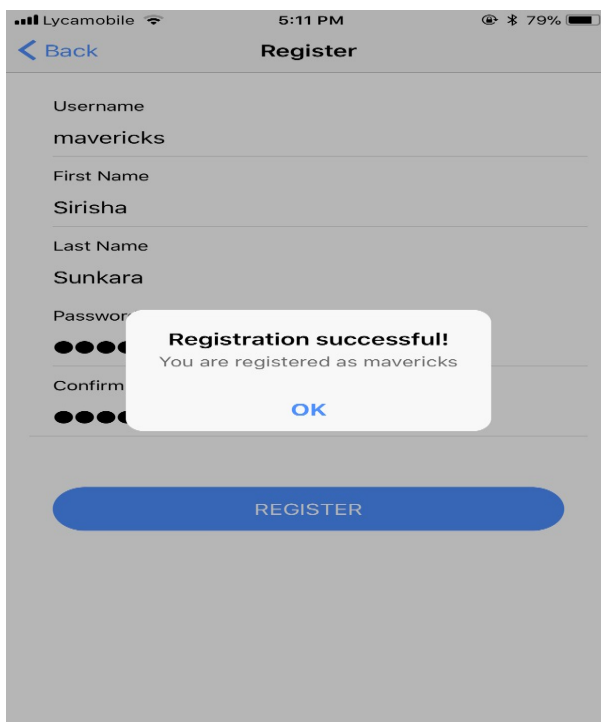
Last Name

Password

Confirm Password

REGISTER

2. On successful register:



A mobile app registration form titled "Register" with a "Back" button. The form contains five input fields: "Username", "First Name", "Last Name", "Password", and "Confirm Password". Below the fields is a blue "REGISTER" button. A white modal dialog box is displayed in the center, containing the text "Registration successful! You are registered as mavericks" and an "OK" button. The status bar at the top shows "Lycamobile", "5:11 PM", and "79%" battery.

Register

Username
mavericks

First Name
Sirisha

Last Name
Sunkara

Password
●●●●

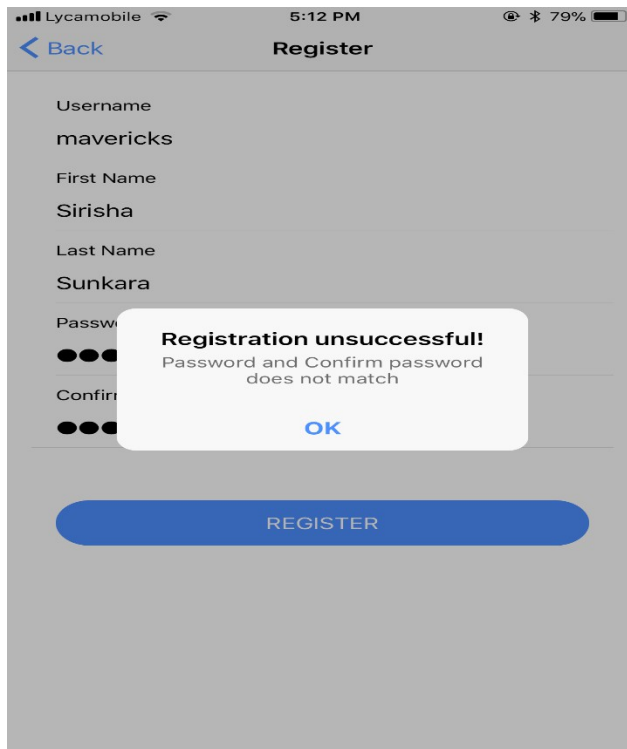
Confirm
●●●●

Registration successful!
You are registered as mavericks

OK

REGISTER

3. On Entering Invalid Credentials:



Nearby Pharmacy Location:

Using Foursquare API we collected all the nearby pharmacy stores.
Below are the screen shots for nearby stores.

Where?

Kansas city

Get Nearest Medical Stores

Medical Services Center

(816) 329-1465
1109 East 10th St.

Truman Medical Center

(816) 404-1000
2301 Holmes St

Medical Positioning, Inc.

JVS Baltimore Avenue Dime Store

1608 Baltimore Ave

6. **Project Management**

Implementation Status Report

We have developed our application by collaborating various technologies. Some of them are.

- HTML5
- CSS
- JAVASCRIPT
- ANGULARJS
- IONIC

1. **Completed Tasks**

The following tasks are completed in increment-1,

- Completed designing Login and Register Pages
- Validating the user based on credentials
- Displaying the nearby pharmacy stores in particular location using FourSquare API

2. **Work to be Completed**

Tasks to be completed are,

- Adding Layouts for other pages
- Completing other pages by using ApiMedic API
- Changes to the User Interface
- Adding Menus

3. **Contributors**

Vineeth Reddy, Kottam – 25%

Venkata Bhavesh Reddy, Polareddy – 25%

Naga Sirisha, Sunkara - 25%

Vinay Santhosham - 25%

7. **Bibliography**

1. <https://foursquare.com/>
2. <http://apimedic.com/>
3. <https://creatly.com/app/>