FOOD-CYCLED



Team number - 1

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I. INTRODUCTION

Food is one of the basic necessity of life and fuel for the human body and yet, many people still do not have access to a good meal. Many don't realize how much they throw away every day from uneaten leftovers which could otherwise be made available to people in need. In today's world, recycling is a major topic and the idea of reusing would aid in reducing waste. This motivated us to look for a project that combines these two ideas.

'Natural Resources Defense Council estimates that about 40 percent of food in the U.S is never eaten and at the same time one in eight Americans struggle to get proper food.'

The above brief description outlines the core idea of our project, which helps reduce wastage of food and make it available to people in need. This inspired us to take a step forward to initiate this project with the help of an user friendly application and website which will attract more people to be involved in this process and make it a success. Individuals and restaurants can support in this cause and make a difference in their community by providing excess food to those who are in need.

II. PROJECT GOAL AND OBJECTIVES

Overall Goal (Based on Enactus Requirements):

The main objective of this project is to develop user friendly application and website that could be used by individuals and restaurants to give away this excess food to those who don't have access to it. Through this project, food is provided for homeless or less privileged people and also to reduce the wastage of food.

Specific Objectives:

There has not been an easy process outlined to help in repurpose excess food that are otherwise going to be thrown. The project proposes a streamlined simple approach to resolve this with the help of smart technology.

Specific Features:

- User friendly application and website to help ease donation and collection of excess food.
- Identifying Soup Kitchens using Maps.
- Chat feature between user and volunteer to smoothen food pick up process.
- Check for nutritional value, ingredients and validity of the food by a simple scan.
- Login can also be done using social websites such as Facebook, google+, etc.
- Feedback on volunteers by users.

Significance:

We are developing an application and a website to effectively collect and make food available to homeless and less privileged people. People who wish to be part of this program are grouped into two types –

- 1. User(s) people who wish to contribute food
- 2. Volunteer(s) people who wish to collect food from users and drop off at the nearby stall location.

Initially volunteers are registered with their details including photo and valid ID. The user also needs to register and then mention the food they wish to donate. After that, a request will be sent to the nearby volunteer to pick up the food. Nearby volunteer who is available accepts the request from the user to pick up food. Also the volunteers details will be sent to the user and chat conversation is enabled between them. After the volunteer picks up the food, he/she drops off in the nearby soup kitchens. After accepting the food from the user, volunteer scans the food in the application to find out the nutritional value and expiry of the food. If deemed acceptable then the food is then dropped off by the volunteer in a nearby stall location. Different type of foods available in every stall location is displayed in the application and website for information.

III. PROJECT PLAN

Schedule for the four different increments

Increment I

Launch Page for android and website

Login and Register Page for android and website

Facebook and Google Oauth Login for android and website

Increment II

Launch Page for Ionic Application

Login and Register Page for Ionic Application

Facebook and Google Oauth Login for Ionic Application

Google Maps for Soup Kitchens

Camera to upload images

Increment III

Implement Food API to get nutrition information

Dashboard for User

Dashboard for volunteer

Message Notification sent to volunteer on 'Confirm request'

Increment IV

Thank You page for contributors

Feedback for Volunteers

Deployment

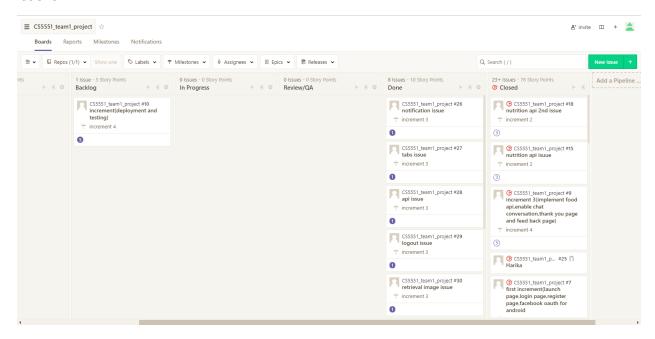
Testing

STORIES (ISSUES): SCENARIO & USE CASE SPECIFICATION

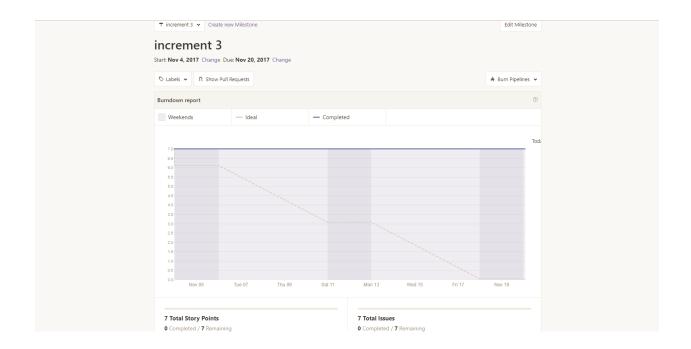
- User logs into the application or signs up if not registered.
- Also Volunteers are registered or can sign up if not registered.
- The User will then provide details such as Name of the food, Cuisine, preparation date, expiry date, spice levels and image of the food.
- A request is then sent to the volunteers nearby.
- After a volunteer accepts request he/she will be able to receive the user information and a volunteer details are sent to the user.
- After the volunteer picks up the food , they drop it in the nearby Soup Kitchens.
- Later on , the user can provide a feedback for the volunteer.
- User then logs out of the application.

PROJECT TIMELINES, MEMBERS, TASK RESPONSIBILITY

ISSUES:



BURNDOWN CHART



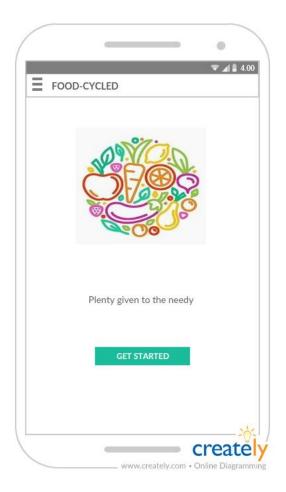
IV. THIRD INCREMENT REPORT

- i. Existing Services/REST API
 Facebook OAuth API, Food API, Google Maps API, Google OAuth API, Camera API
- ii. Detailed Design of Features

WIREFRAMES

LAUNCH PAGE

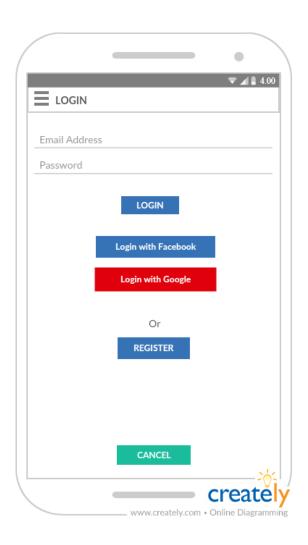
The Launch Page of the **Food-cycled** application includes **GET STARTED** button which redirects to Login Page and a side menu bar which contains – **About Us**, **Login**, **Register**, **Soup Kitchens**, **Volunteer and Contact Us**.





LOGIN PAGE

The Login Page is common for both User and Volunteer. It redirects to their respective Dashboard. There are two Social Logins implemented – Facebook and Google.

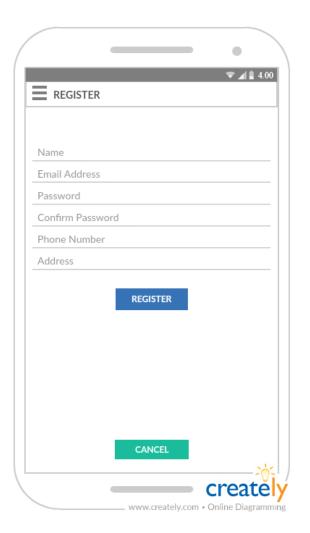


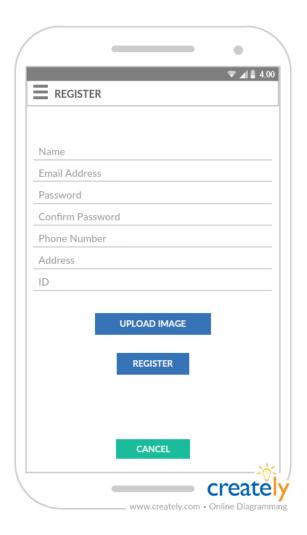
REGISTER PAGE

The User and Volunteer registers separately using their basic details. Volunteer has to also upload their Image to register successfully. Upon Successful registration, it redirects to the Login Page.

USER REGISTRATION

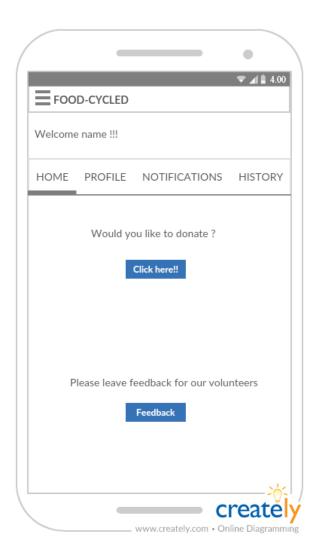
VOLUNTEER REGISTRATION

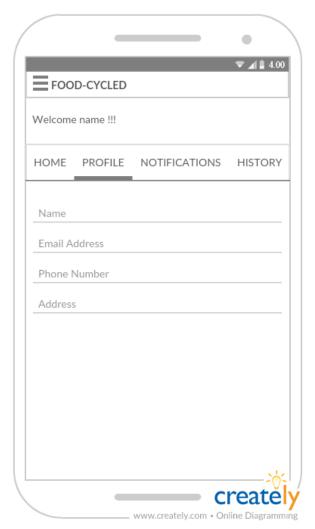




USER DASHBOARD

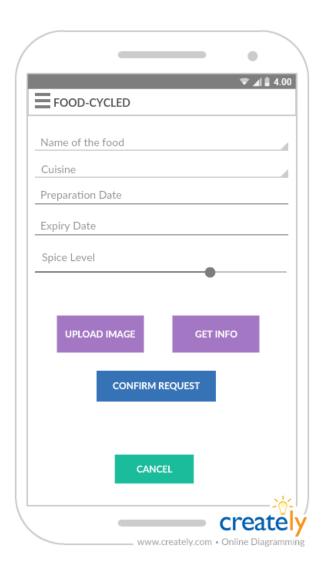
Upon successful login, User lands in this dashboard page. It displays User name and provides user with tabs – Home, Profile, Notification and History, where Home is the default Tab. In the Home tab, there are two buttons – Click here and Feedback. 'Click here' redirects to the Food Request Page and 'Feedback' redirects to the Feedback Page.





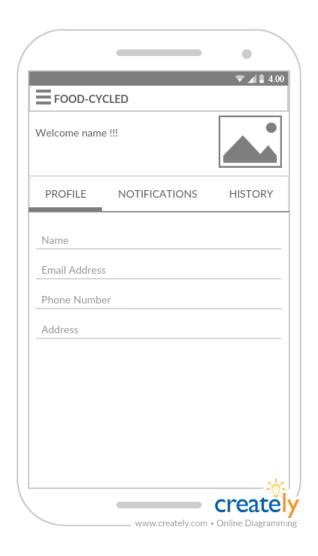
FOOD REQUEST PAGE

For each food the user would like to donate, he/she needs to fill details like – name of food, cuisine, preparation date, expiry date, spice level and also upload image. 'Get Info' provides the nutrition details of the food entered and 'Confirm Request' sends notification to all volunteers.



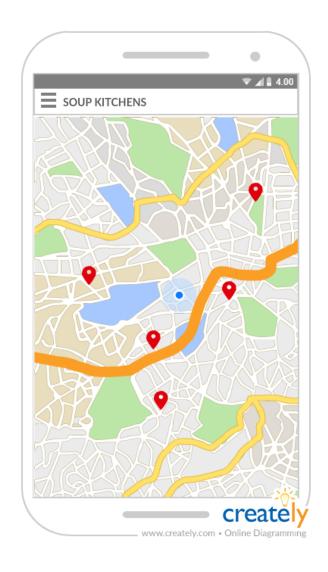
VOLUNTEER DASHBOARD

Upon successful Login, Volunteers land on their Dashboard page. Here the Volunteer Name and Image is displayed. There are three tabs – Profile, Notifications and History which displays the respective information. Notifications tab displays the new food requests.

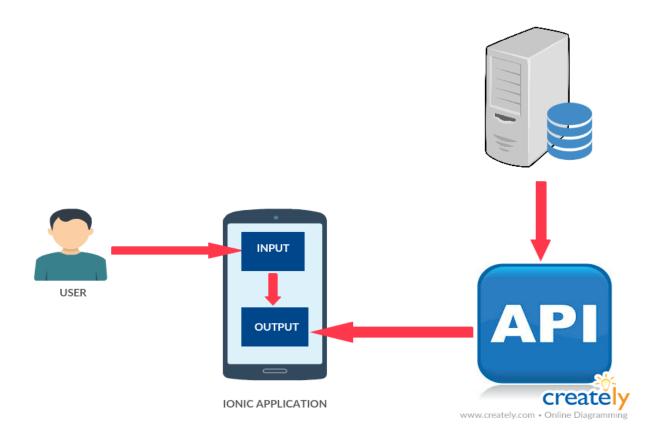


SOUP KITCHENS

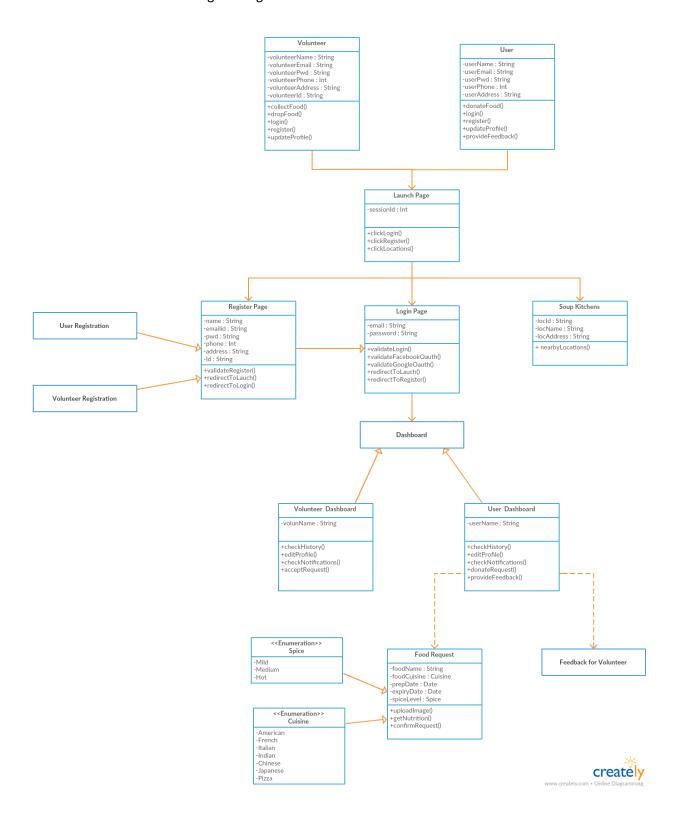
In this Page, the nearby Soup Kitchen Locations are displayed to the person accessing this application.



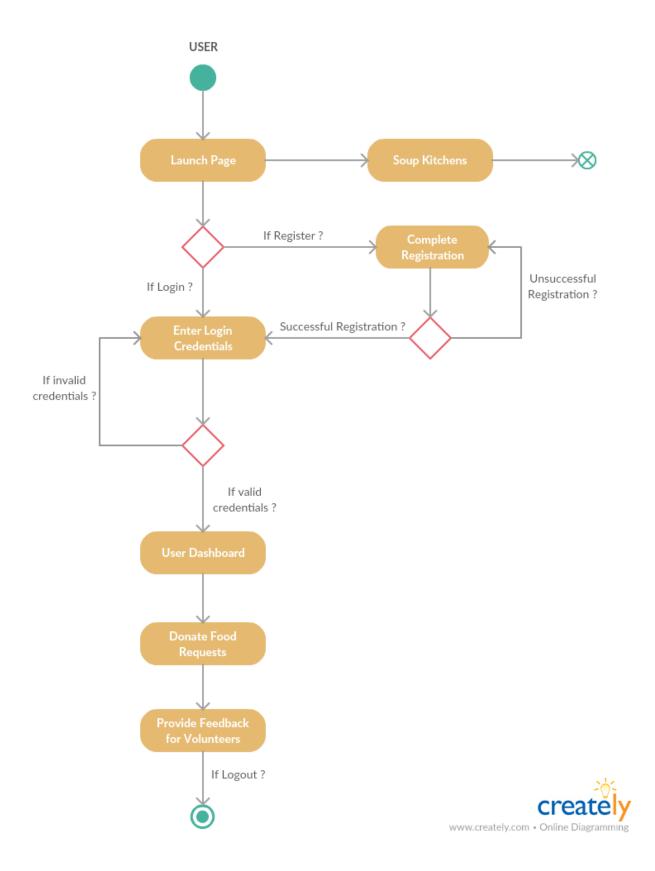
ARCHITECTURE DIAGRAM

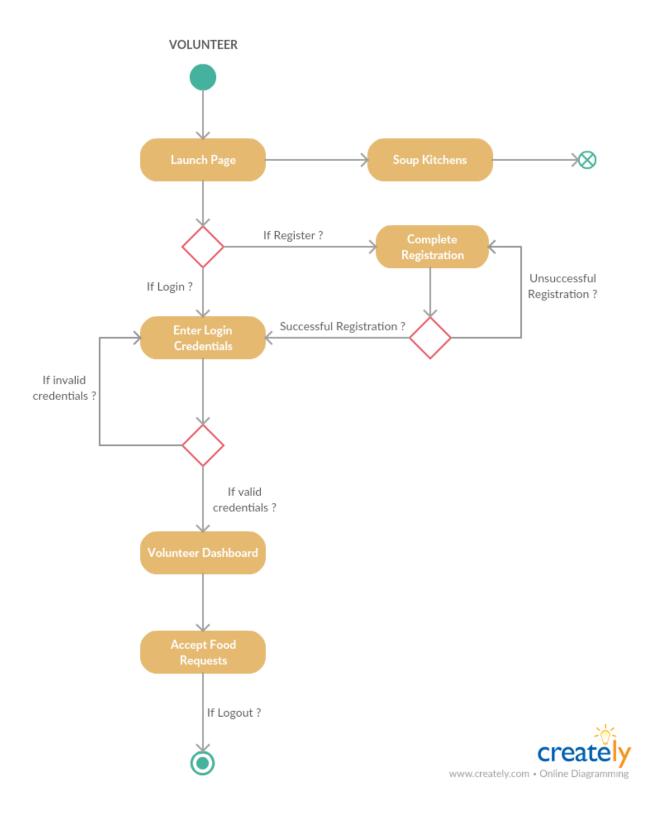


CLASS DIAGRAM

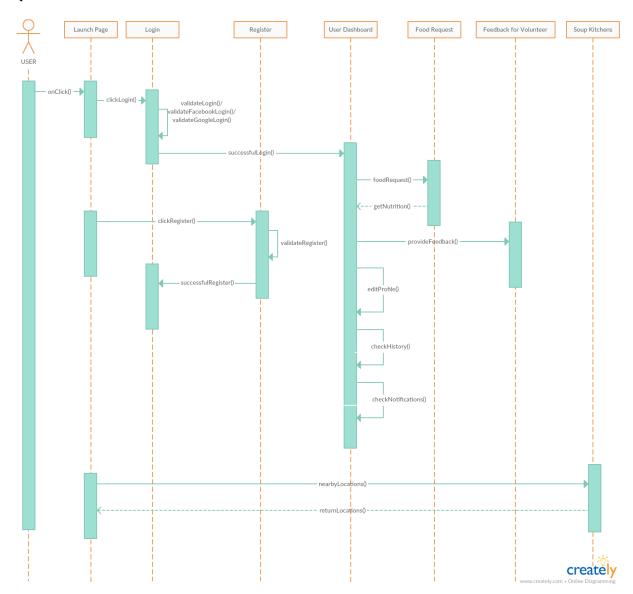


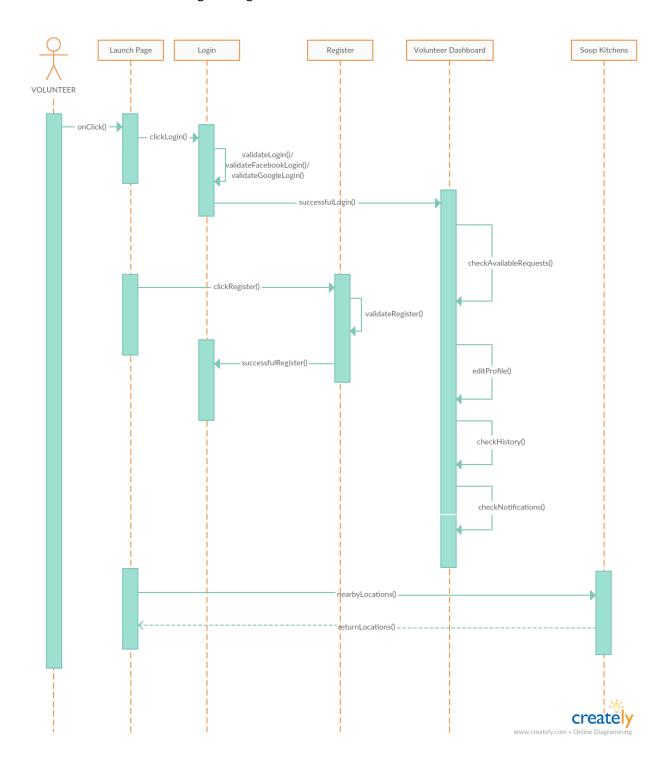
ACTIVITY DIAGRAM



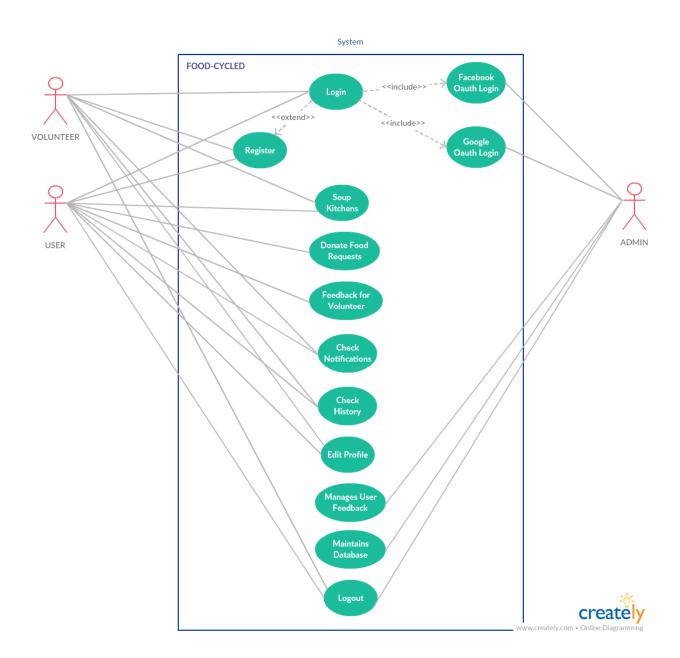


SEQUENCE DIAGRAM



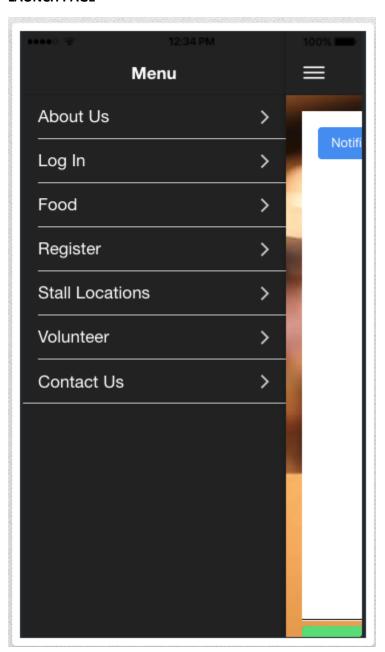


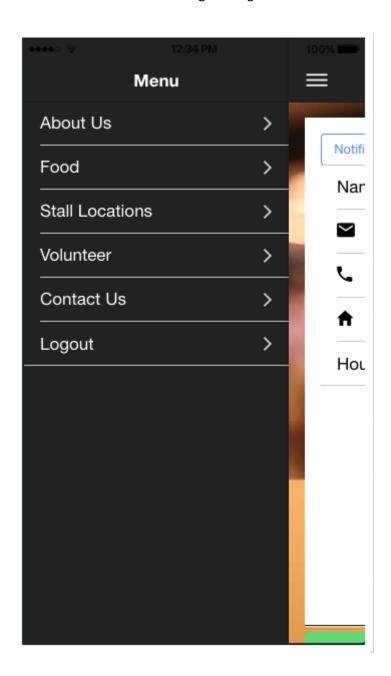
USECASE DIAGRAM



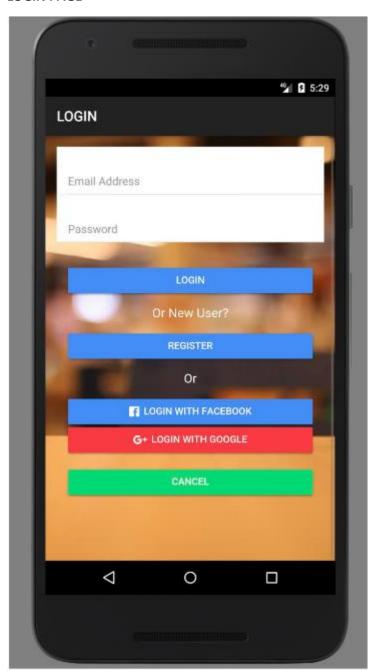
V. IMPLEMENTATION

LAUNCH PAGE

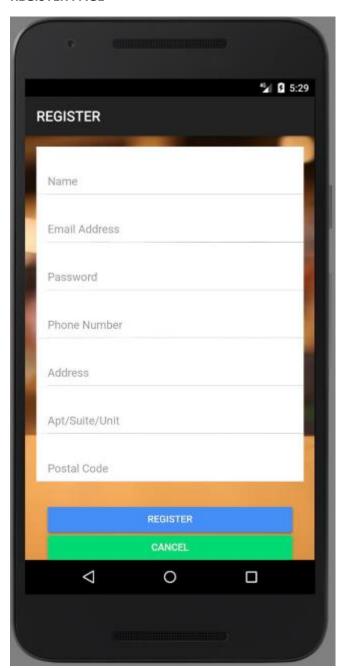




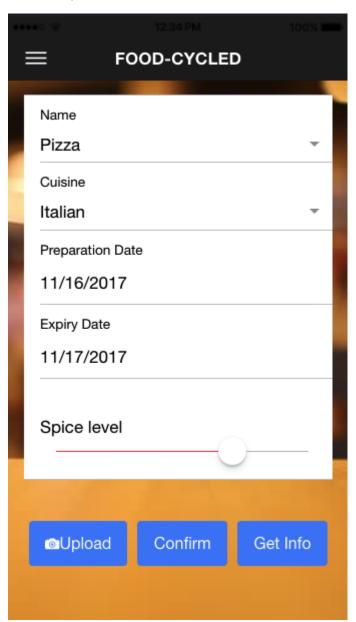
LOGIN PAGE



REGISTER PAGE

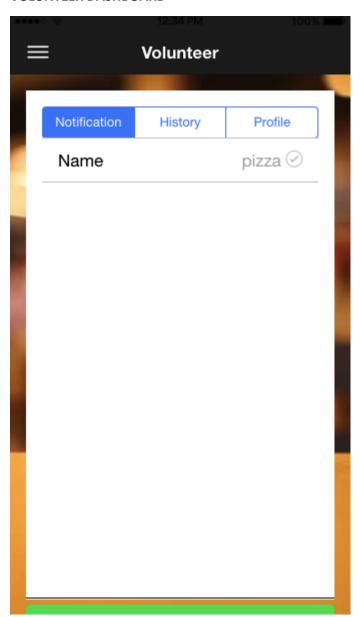


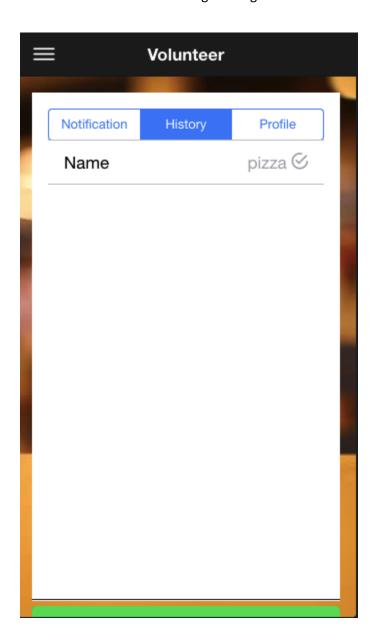
FOOD REQUEST PAGE

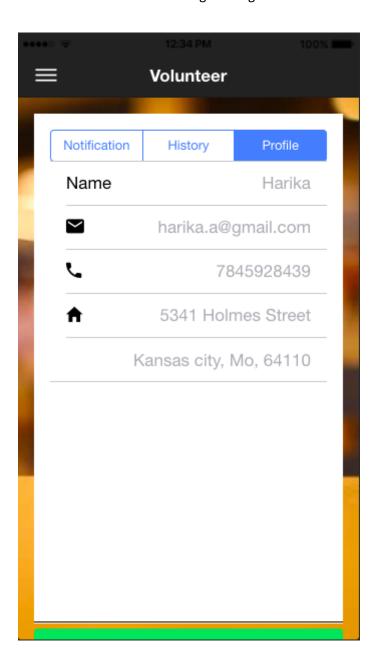


••••○ 🛜	12:34 PM	100%	
Cancel	Details		
Pizza Breakfa	st Pizza		
Fat	256.8295999	9999997 g	
Carbs	144.8832 g		
Protein	165.16960000000003 g		
Cholesterol	1967.3600000000001 mg		
Sodium	5839.4 mg		
Calcium	1866.6400000000003 mg		
Magnesium	224.12 mg		
Potassium	2027.6 mg		
Iron	16.0552 mg		
Zinc	1	7.2936 mg	
Phosphorus	2	608.76 mg	

VOLUNTEER DASHBOARD







VI. TESTING

i. UNIT TESTING

Sr No	Test Case	Description	Expected	Result
			Outcomes	
1	Successful User	User should be able to Login	Successful Login	Pass
	Authentication	with the Email and password		
2	Unsuccessful	User provides wrong	Login	Pass
	User	credentials	Unsuccessful with	
	Authentication		error prompts	
3	Successful User	The User provides	Successful login	Pass
	OAuth Login (correct credentials		
	Social login)			
4	Registration by	Any User should be able to	Successful	Pass
	User and	successfully register	Registration	
	Volunteer			
5	Registration	User should be	Successful	Pass
	Page	able to successfully register	Registration	
6	Food Request	User should be able to get	Nutrition details	Pass
	Page	nutrition information of the		
		food		

ii. PERFORMANCE TESTING



VII. TECHNOLOGY USED

- Android SDK
- HTML
- CSS
- Ionic
- Firebase
- Postgres

VIII. PROJECT MANAGEMENT

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