

# The Food Feed

by

Lama Alnammari and Alex Gugger



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Lama Alnammari

Date

Alex Gugger

Date

Brian Verkamp, Faculty Advisor

Date

University of Cincinnati  
College of  
Education, Criminal Justice, and Human Services  
April 2017

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## **Abstract**

The Food Feed allows users to share their unique food tastes with the world. It is going to be an application that allows users to upload pictures of food to certain feeds depending on where they are. In Cincinnati, there will be five different sub sections including OTR, Clifton, Banks, Newport, and Oakley. Once you click on a section it will take you to a news feed sharing all the delicious food offered in that area, with a brief description under the picture allowing you to know what it is and where they got it. The goal of the application is to help users discover new and interesting places to dine-out in their city without having to go in blind. Say goodbye to obnoxiously asking your significant other numerous times where they'd like to eat for hours just to end up eating at your local Applebee's.

## **1. Problem Statement**

### **1.1 Introduction**

We are two students at the University of Cincinnati who both work in the food industry. One of us is a server/bartender in Over-the-Rhine and loves taking pictures of all the delicious food that this part of town has to offer. The other owns her own cake business and loves taking pictures of her creations to send to her friends and family and would love somewhere to post her pictures online specifically for food.

### **1.2 Project Description**

We are going to create an app called “The Food Feed.” What will the app do? It will provide a live feed of different food, drinks, happy hours, and promotions that different businesses can advertise via our app. We will have different feeds for each location allowing our users to hone in on a specific area. For example, when you go to the OTR feed you will instantly see pictures of delicious food, drinks, happy hour specials, and specific promotions offered in OTR.

### **1.3 Problem**

The problem The Food Feed will address is a specific app to share pictures of food. People post pictures of food on other social media apps such as Facebook or Instagram, but they also post pictures of friends, family, scenic views, and other things. Our app will be only for sharing pictures of food, which will help people learn about new restaurants and the food they offer.

## **1.4 User Profile**

Our user profile for this application is anyone using an Android or Apple phone. We are as bold in saying anyone because everyone likes to dine out, take pictures of food, and share them. Since we have such a broad user base, the app will need to be extremely user friendly. Under our user base, we will have three different types of users. These user groups will consist of people who only scroll through the feed, people who upload to the feed as well as browse it, and people who work in the industry promoting their own restaurant.

**Table 1** depicts Potential Users of the Food Feed application.

<p><b><u>1.4.1: Android and iPhone users</u></b></p> <ul style="list-style-type: none"><li>• People who solely browse the feed</li><li>• People who browse and upload to the feeds</li><li>• People who work in the industry to promote their restaurants</li></ul>
<p><b><u>1.4.2: Experience with Similar applications:</u></b></p> <ul style="list-style-type: none"><li>• Due to the vast amount of users who will have The Food Feed, the app will be extremely user friendly. It will be built very similar to Instagram's, Facebook's, and Twitter's feed (All you have to do is scroll).</li></ul>
<p><b><u>1.4.3: Task Experience:</u></b></p> <ul style="list-style-type: none"><li>• The only tasks you can do is upload a picture. It will be extremely simple; all you have to do is click the upload button. You will then be prompted to select a photo from your gallery, give a restaurant name, and brief description.</li></ul>
<p><b><u>1.4.4: Frequency of Use:</u></b></p> <ul style="list-style-type: none"><li>• This application will get a surge of use around lunch (11:00AM-1:00PM) and dinner (4:00PM-7:00PM) but will be accessed and used randomly throughout the entire day.</li></ul>
<p><b><u>1.4.5: Key Interface Design:</u></b></p> <ul style="list-style-type: none"><li>• Bold Navigation tabs to different location feeds</li><li>• Easy upload process</li><li>• Simple news feed to scroll through</li></ul>

Table 1: User Profile

Figure 1 depicts the Use Case Diagram for the Food Feed application.

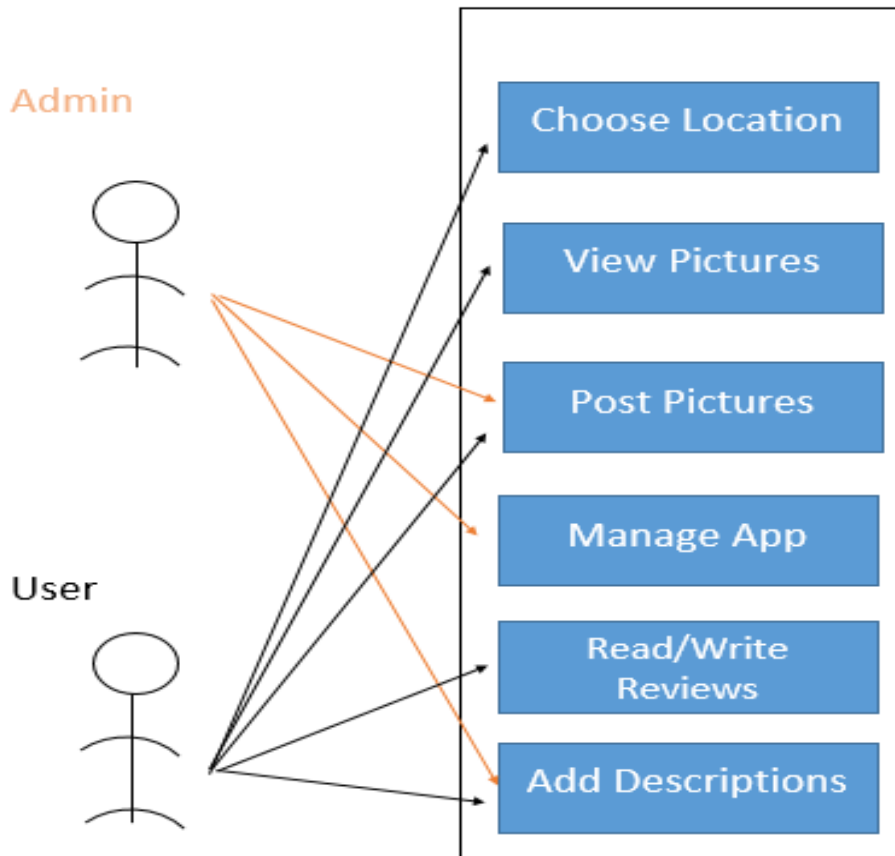


Figure 1: Use Case Diagram

## 2. Technical Elements

### 2.1 MySQL

We are going to use a MySQL database to store all the information posted to the app.

We are going to use this type of database because its robust functionality, the vast amount of forums documenting specific uses, and it is used in other social media sites such as Facebook, Twitter, and Flickr.

[Image 1](#) is the dashboard we manage our database from.

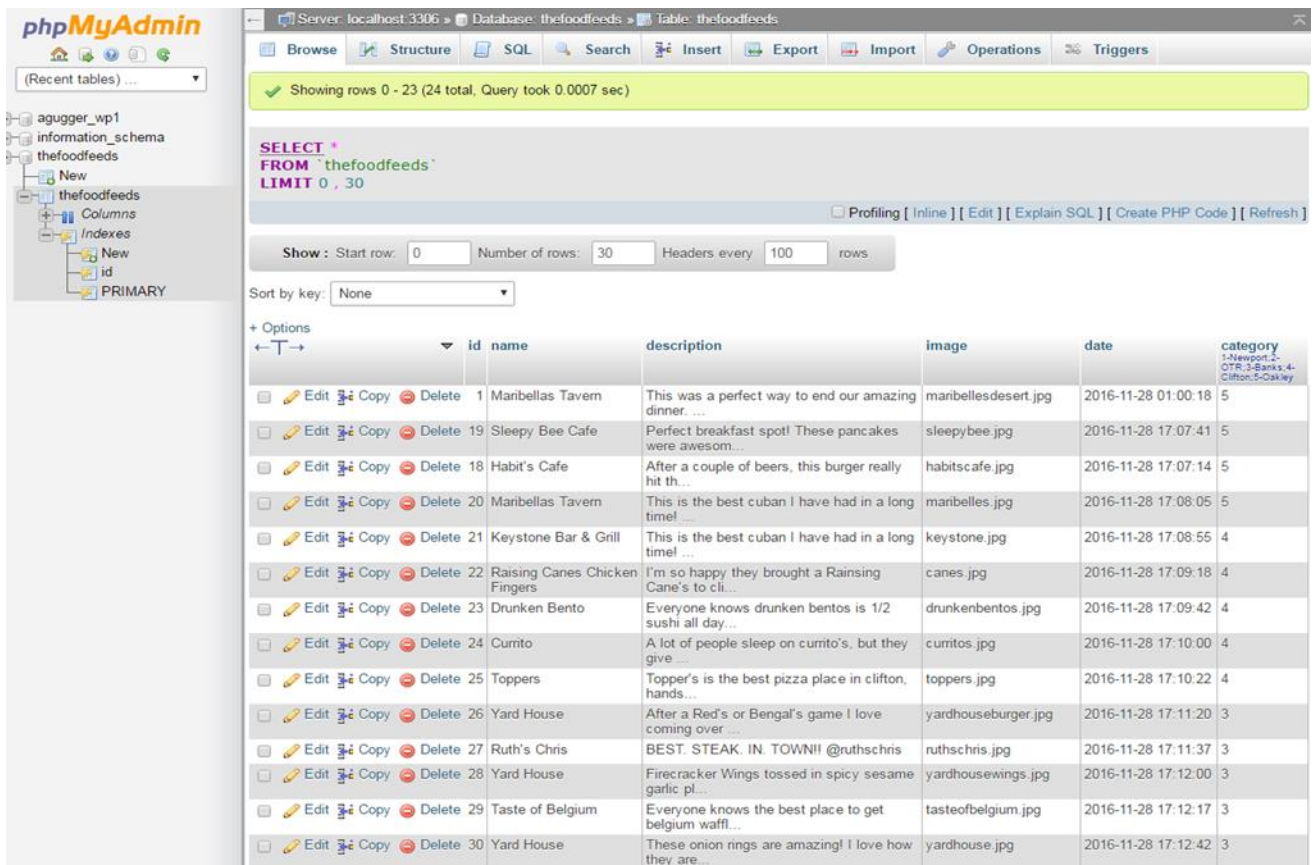


Image 1: phpMyAdmin dashboard

## 2.2 PHP

We are going to use php-scripting language for server side development. It will be set up ready to receive the incoming pictures and to post them in the proper feeds of the application. It will direct the picture to the file system (database) and put it in the right section, to be posted under the correct feed it was uploaded in.

**Image 2** is a part of the code used to upload pictures to the site

```
<?php
require_once dirname(__FILE__) . '/ws-includes/lib/functions.php';

/* strip empty characters */
function normalizeString ($str = '')
{
    $str = strip_tags($str);
    $str = preg_replace('/[\r\n\t ]+/', ' ', $str);
    $str = preg_replace('/[\"\\*\|\/\:\<\>\?\\\'|]+/', ' ', $str);
    $str = strtolower($str);
    $str = html_entity_decode( $str, ENT_QUOTES, "utf-8" );
    $str = htmlentities($str, ENT_QUOTES, "utf-8");
    $str = preg_replace("/(&)([a-z])([a-z]+);/i", '$2', $str);
    $str = str_replace(' ', '-', $str);
    $str = rawurlencode($str);
    $str = str_replace('%', '-', $str);
    return strtolower($str);
}

if ($_POST['exe']=="uploadImage"){
    $errors = '';

    if ( trim($_POST['name']) == '' ){
        $errors .= 'Please type name.<br />';
    }
    if ( trim($_POST['description']) == '' ){
        $errors .= 'Please type description.<br />';
    }
    if ( trim($_POST['category']) == '' ){
        $errors .= 'Please choose a category.<br />';
    }

    //upload fileUpload
    $target_dir = "../ws-content/upload/";
    $target_file = $target_dir . basename(normalizeString($_FILES["fileUpload"]["name"]));
    $uploadOk = 1;
    $imageFileType = pathinfo($target_file,PATHINFO_EXTENSION);

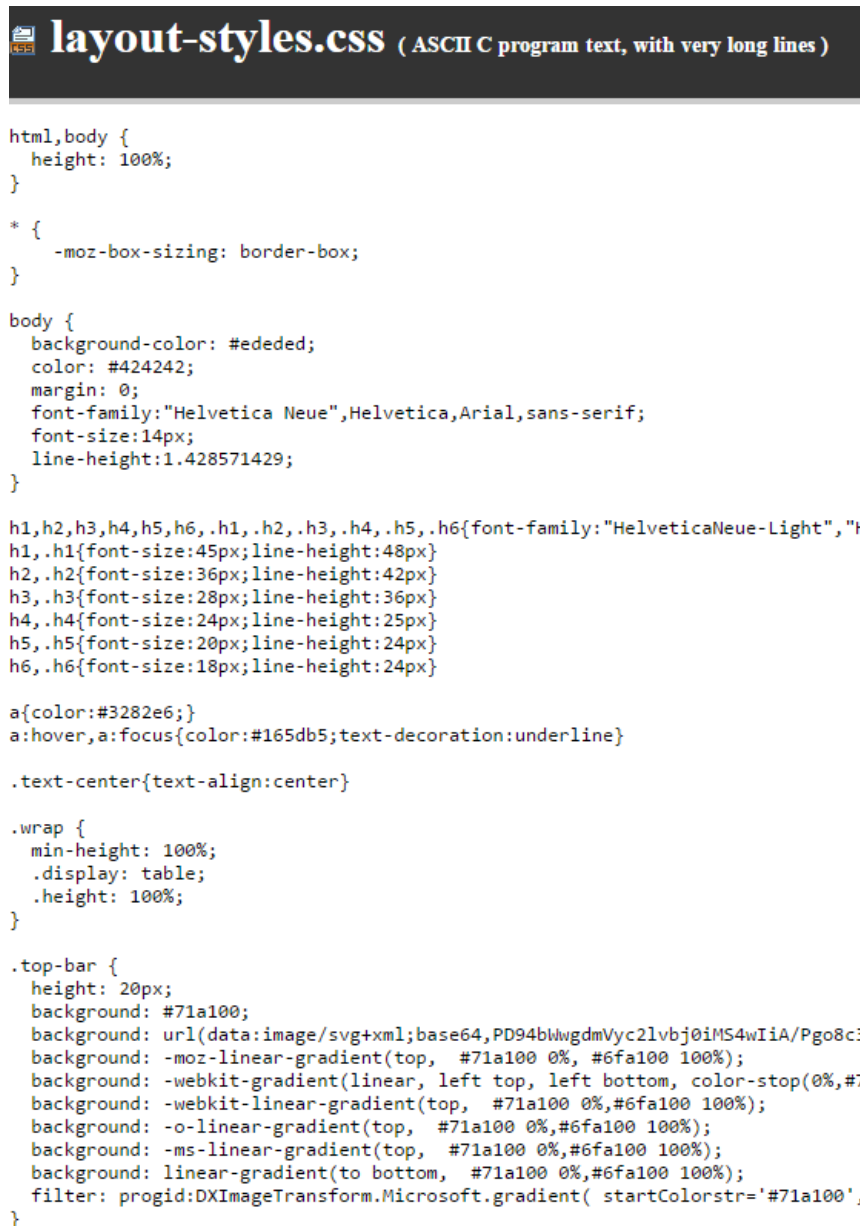
    // Check if image file is a actual image or fake image
    if(isset($_POST["submit"])) {
        $check = getimagesize($_FILES["fileUpload"]["tmp_name"]);
        if($check !== false) {
            $uploadOk = 1;
        } else {
            $errors .= 'File is not an image.';
            $uploadOk = 0;
        }
    }
}
```

Image 2: PHP code

## 2.3 HTML5/CSS3

HTML5 is the most recent version of the HTML standard markup language. We used this for the development of the site. CSS3 is the latest evolution of the Cascading Style Sheets language. We used this to add color, borders, font, and styles to our site.

**Image 3** shows some of our cascading style sheets code to format the site.



```
layout-styles.css (ASCII C program text, with very long lines)

html,body {
  height: 100%;
}

* {
  -moz-box-sizing: border-box;
}

body {
  background-color: #ededed;
  color: #424242;
  margin: 0;
  font-family:"Helvetica Neue",Helvetica,Arial,sans-serif;
  font-size:14px;
  line-height:1.428571429;
}

h1,h2,h3,h4,h5,h6,.h1,.h2,.h3,.h4,.h5,.h6{font-family:"HelveticaNeue-Light","t
h1,.h1{font-size:45px;line-height:48px}
h2,.h2{font-size:36px;line-height:42px}
h3,.h3{font-size:28px;line-height:36px}
h4,.h4{font-size:24px;line-height:25px}
h5,.h5{font-size:20px;line-height:24px}
h6,.h6{font-size:18px;line-height:24px}

a{color:#3282e6;}
a:hover,a:focus{color:#165db5;text-decoration:underline}

.text-center{text-align:center}

.wrap {
  min-height: 100%;
  display: table;
  height: 100%;
}

.top-bar {
  height: 20px;
  background: #71a100;
  background: url(data:image/svg+xml;base64,PD94bWwgdmlvc2lvdj0iMS4wIiA/Pgo8c:
  background: -moz-linear-gradient(top, #71a100 0%, #6fa100 100%);
  background: -webkit-gradient(linear, left top, left bottom, color-stop(0%,#
  background: -webkit-linear-gradient(top, #71a100 0%,#6fa100 100%);
  background: -o-linear-gradient(top, #71a100 0%,#6fa100 100%);
  background: -ms-linear-gradient(top, #71a100 0%,#6fa100 100%);
  background: linear-gradient(to bottom, #71a100 0%,#6fa100 100%);
  filter: progid:DXImageTransform.Microsoft.gradient( startColorstr='#71a100',
}
```

Image 3: Cascading Style Sheet

## 2.4 CPanel

CPannel is a Linux based web hosting control panel that has tools that help automate and simplify hosting a website. CPannel also supports apache, php, and MySQL.

**Image 4** shows our cPanel dashboard.

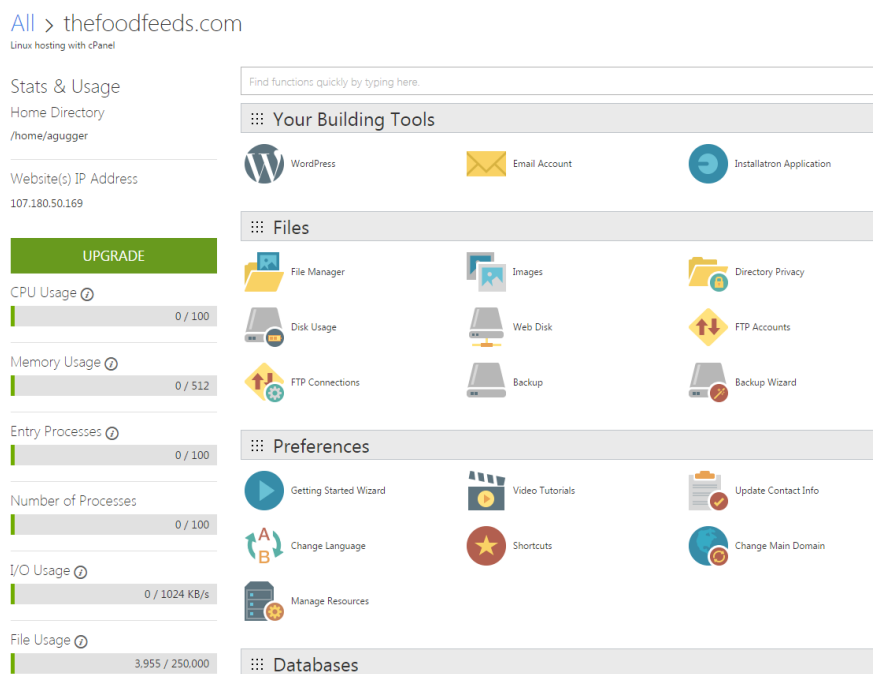


Image 4: cPanel dashboard

## 2.5 Swift

Swift is a robust, open source, and intuitive programming language for Apple developers. Swift is safe by design, but also produces programs that run fast and are dependent. With swift 3 they improved the ease of integrating API frameworks into your program for more natural consistent code.

### 3. Testing

#### 3.1 Application Stack

This section will explain the testing methodology used for “The Food Feed” mobile application and can be used as a guide on how to use the application.

**Figure 2** represent our application stack it presents our webserver, dashboard, framework, database.

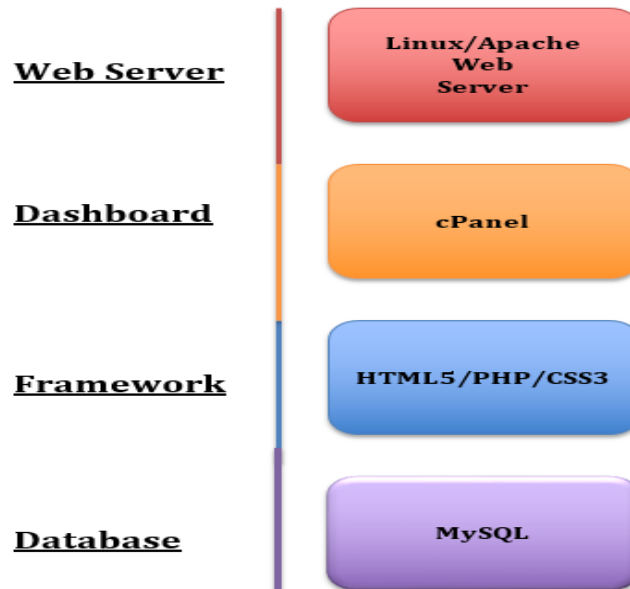


Figure 2: Application Stack

#### 3.1 Scope

The scope of the testing is to ensure all functionality of The Food Feed is operational before moving onto the next step. The tests are completed in a timely fashion from when the functionality was created.

#### 3.2 Objectives

The objective of testing is to verify that everything works as expected. With the agile testing approach we selected we will be continuously testing the application

throughout every stage of development and when every new feature is added. This will allow us to confirm that each core function works with the others.

### **3.3 Logging Test and Reporting**

If the functions do not work during the test, the individual will document what happened and attempt to solve the problem. If successfully solved, document what changes were made and why. If the problem remains unfixed, document the changes and continue to try to fix the functionality.

### **3.4 System Testing**

The Food Feed will be tested on both Android and Apple operating systems. It will be tested throughout its entire build, and one thorough test once everything has been created. The test at the end will ensure everything works individually as well as together.

### **3.5 Testing Procedures**

The following steps will be used to test the functions of the app

- Run each test 100 times
- Run each test on Android and Apple phones
- Document the results of each test as success or fail, and if failed what happened

Below are the tests we will perform

1. Create user - This test we will ensure the ease of functionality on creating a user
2. Uploading a picture - This will ensure the application posts photo's correctly 100% of the time
3. Like/Dislike a photo – This will ensure the applications keeps a correct count of likes and dislikes on a photo
4. Add a comment – This will ensure the app posts the comment on the right photo and with the correct time stamp

### 3.6 Pass/Fail Conditions

It will be expected “The Food Feed” will pass all tests with a 99.5% success rate. If it does not pass that percentage, the code will be reviewed and modified for efficiency.

### 3.7 Schedule of Team Member Testing

**Figure 3** is a summary of us testing the application.

Team Members	Timeline to be Completed	How Often?
Developer	01/9/2017 to 04/10/2017	Weekly
Project Manager	01/9/2017 to 04/10/2017	Every two weeks

Figure 3: Team Member Testing



### 4.3 Flow of App

Figure 6 displays the flow of the app for the user and the admin.

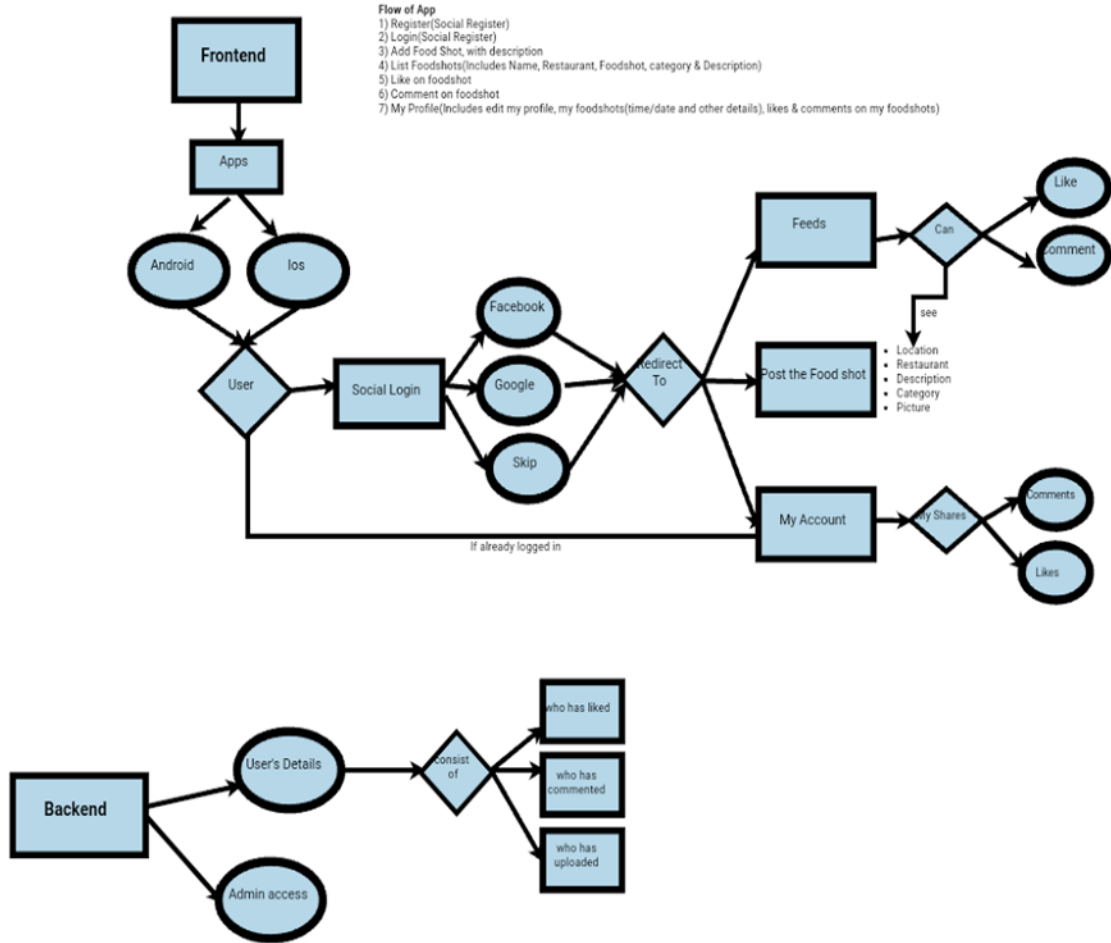


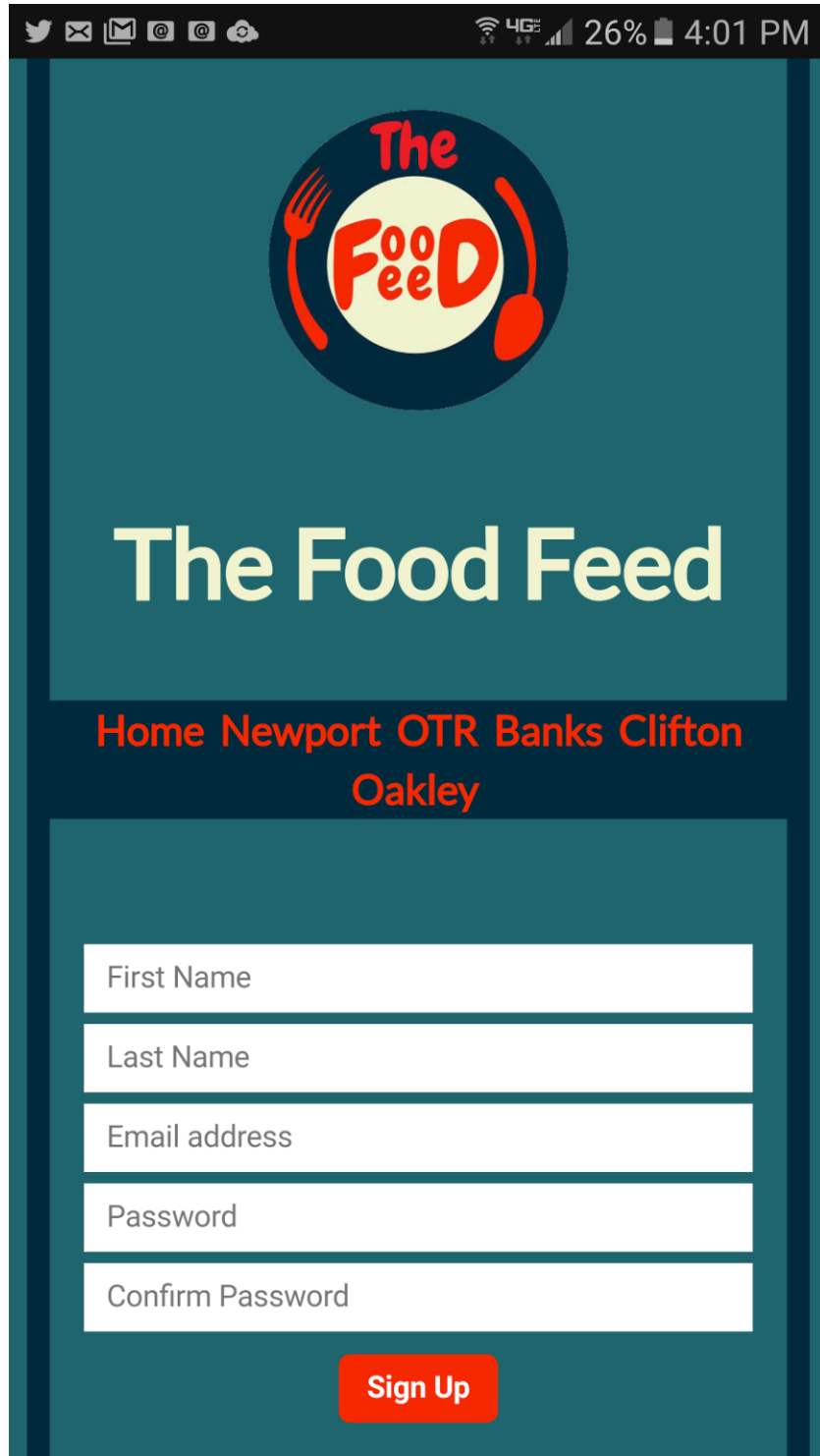
Figure 6: Flow of App

## 4.4 The App

### 4.4.1: Home Page:



4.4.2: Registration Page:



The image shows a mobile registration page for 'The Food Feed'. At the top, there is a dark teal header with the organization's logo, which consists of a circular emblem with a fork on the left, a spoon on the right, and the text 'The Food Feed' in the center. Below the logo, the text 'The Food Feed' is displayed in a large, white, sans-serif font. Underneath this, the locations 'Home Newport OTR Banks Clifton Oakley' are listed in a smaller, orange font. The registration form itself is a white box with five input fields: 'First Name', 'Last Name', 'Email address', 'Password', and 'Confirm Password'. At the bottom of the form is a prominent orange button with the text 'Sign Up' in white. The entire page is framed by a dark teal border, and a mobile status bar at the top shows various icons and the time '4:01 PM'.

4.4.3: Login Page:



4.4.4: Like and Comment:

thefoodfeeds.com

Newport OTR Banks Clifton Oakley

Popular Pictures!

*Upload Your Food!*

Krueger's Tavern

"A delicious burger with a great beer!!"

Alex - April 17 2017 at 8:02pm  
I loved the blue gruyere burger!

Comment

#### 4.4.5: Upload Page:

The Food Feed

Home Newport OTR Banks Clifton  
Oakley

Name of Restaurant:

Description of Photo:

Category:  
Newport ▼

Choose File No file chosen

**Submit**

[Back to website](#)

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## 5 Conclusion

So far we have implemented a fully functioning website. The site has a live domain of [www.thefoodfeeds.com](http://www.thefoodfeeds.com) and allows you to create an account, post pictures, like pictures, and comment on them. We were unable to get a mobile application up and running for the tech expo due to lack of developers and skill sets of mobile development. We believe this application to have a big market in the real world due to the fact people love to go out to eat, love to try new spots in their city, and love to share pictures of the delicious food served to them. We also believe we have a lot of room to expand by adding sections such as “Do it yourself” where people can post pictures and recipes of things they cooked at home. Also, creating premium accounts restaurants can create that allow them to post professional pictures of their own creations to advertise daily deals or their signature dishes. We both are planning to continue the development of The Food Feed to get all the features we planned on having up and running and eventually have it be available on The App and Play Store.

## 6 Works Cited

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