ITMD 565 RICH INTERNET APPLICATIONS FINAL PROJECT
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PROJECT

The project is basically an interactive website connected to other webpages and animation slides which informs us about the great city of Chicago. It contains:

1. Image animation using **Canvas** and **jQuery**.
2. 3D image slideshow using **jQuery**.
3. Interactive dropdown restaurant places using **jQuery**.
4. Google maps integration showing restaurant places using **AngularJS** and **Google Maps API**.
5. **Canvas** animation and slideshow.
6. Webpage with **AngularJS** where user can like or dislike a particular restaurant.

I have used **Bootstrap framework** for my main page. This is a free download available at http://getbootstrap.com/ . Now let us look at the project.

The project contains the main file named "**page1.html**" which on opening looks as follows:
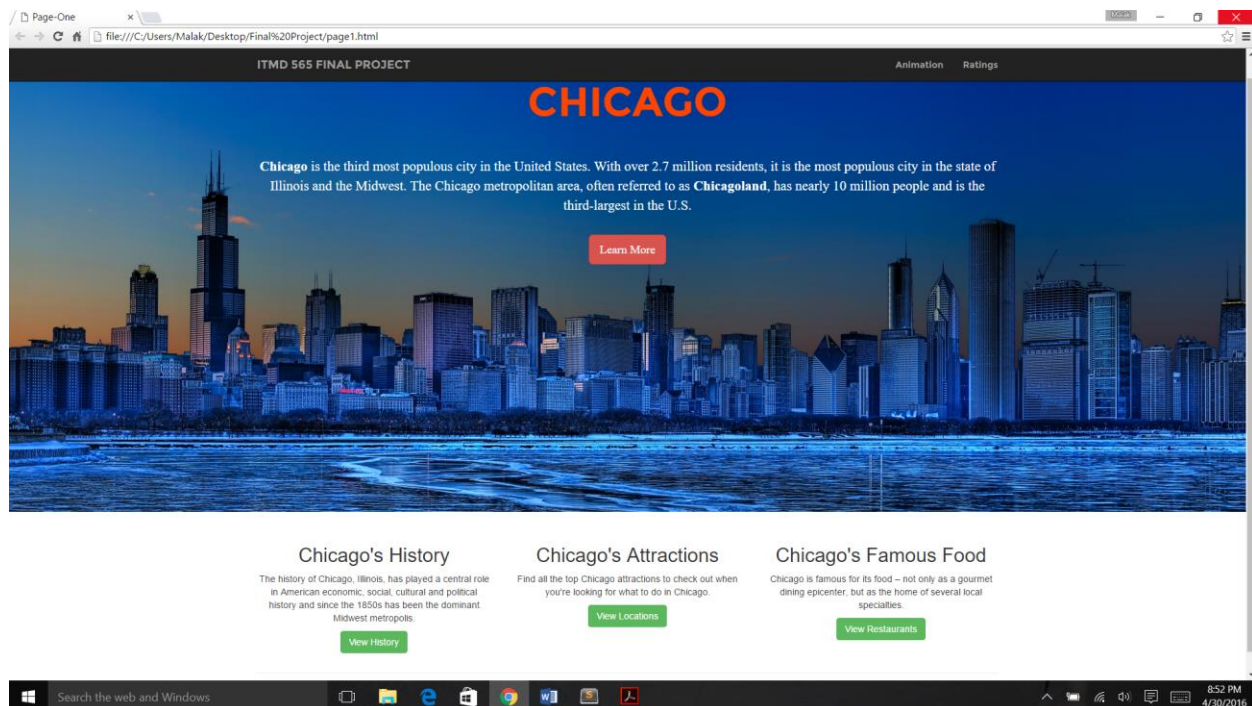
As seen from the home page, we can navigate to 6 different webpages or websites. The "Learn More" button is linked to the Wikipedia page of Chicago. So on clicking it, we are directed to https://en.wikipedia.org/wiki/Chicago.
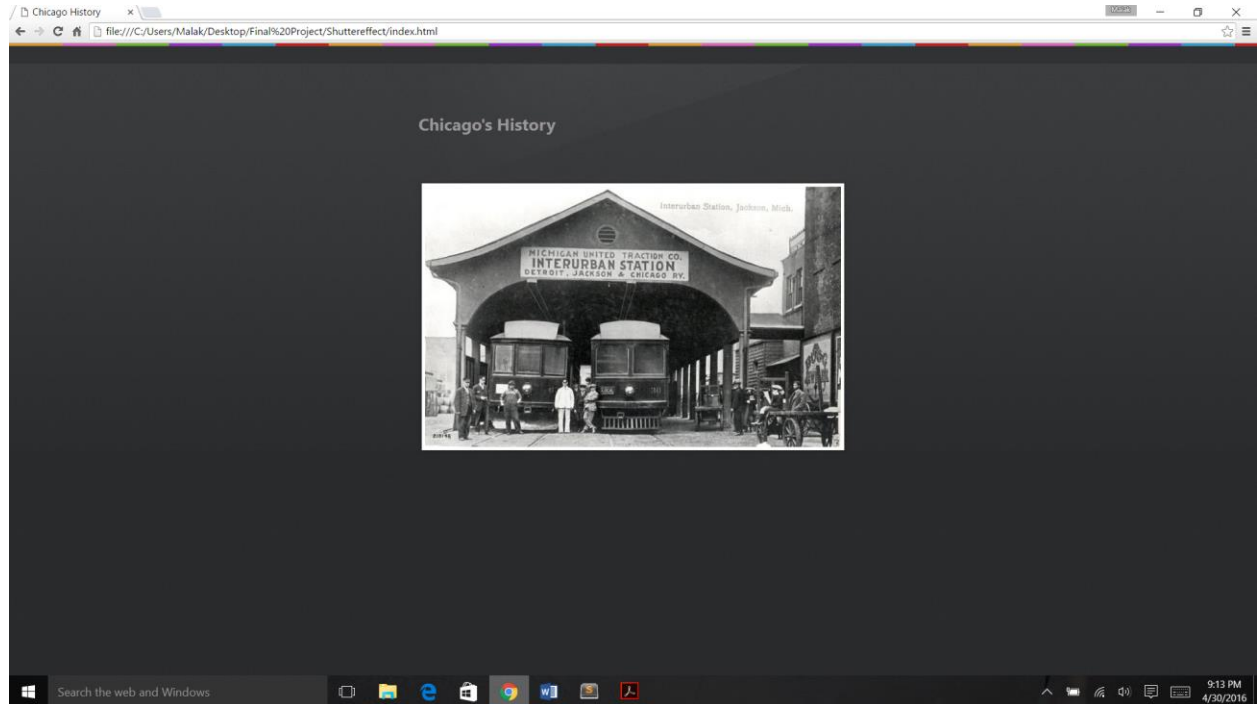
Looking at the bottom section of the page, there are 3 parts shown namely Chicago's History, Chicago's Attractions and Chicago's Famous Food.
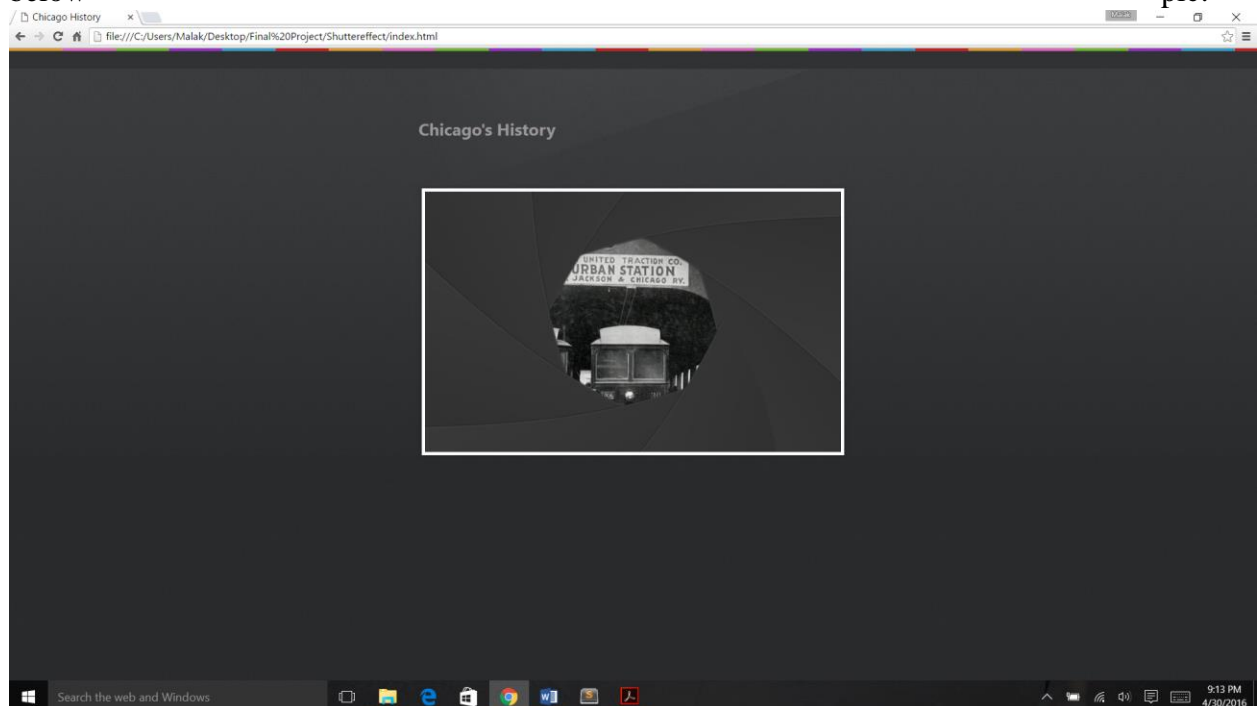
1. Chicago's History: On clicking the green "View History" button, the site leads us to a new webpage which has images which are given animation effect using canvas and jQuery. The screen looks as follows:

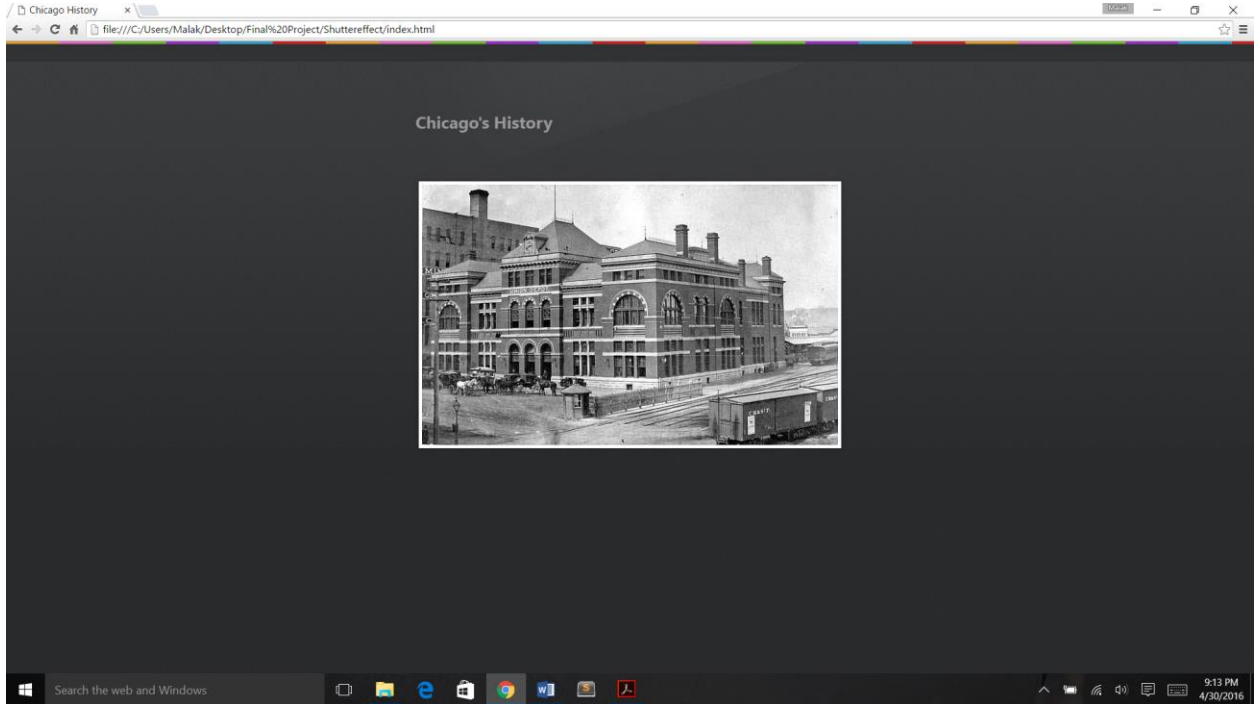The shutterbug effect is applied here for animation on the canvas. The effect can be seen in the below pic:

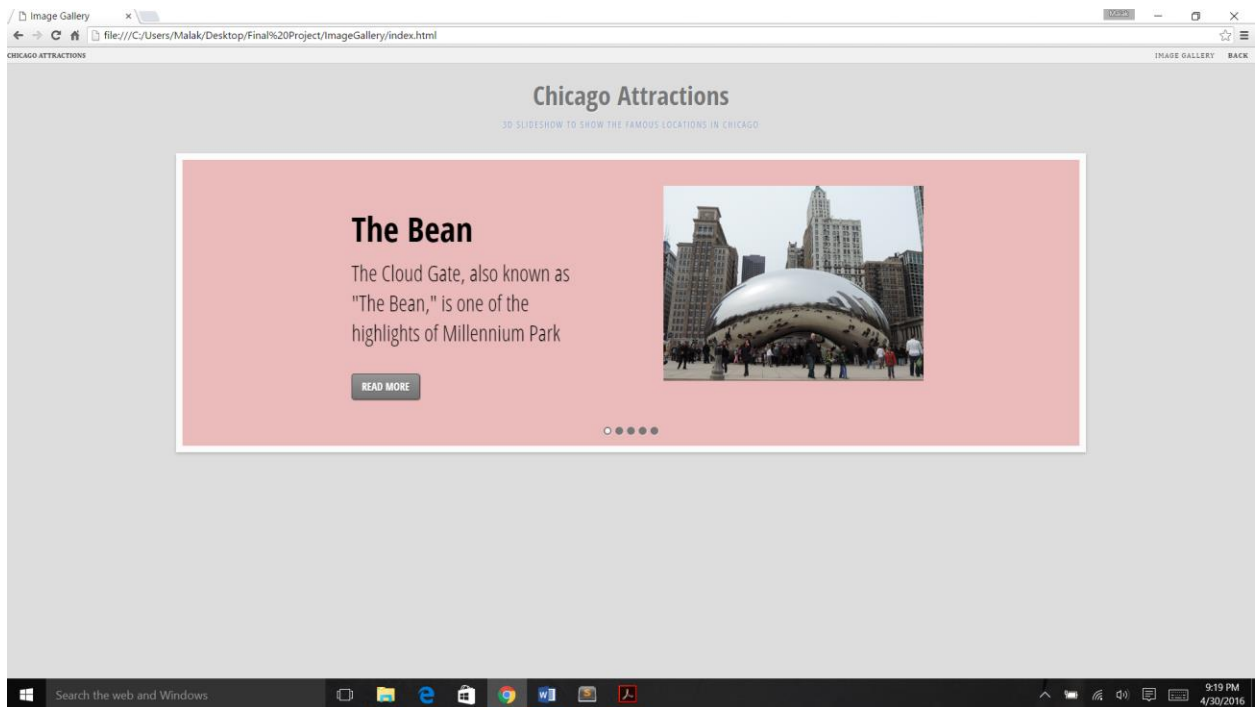After the transition, a new pic is displayed which is as below:

2. Chicago's Attractions: On clicking the green "View Locations" button, the site takes us to a new webpage which consists of a 3D animation slideshow using **jQuery**. The slideshow shows us the famous locations of Chicago along with its brief information. The page looks as follows:
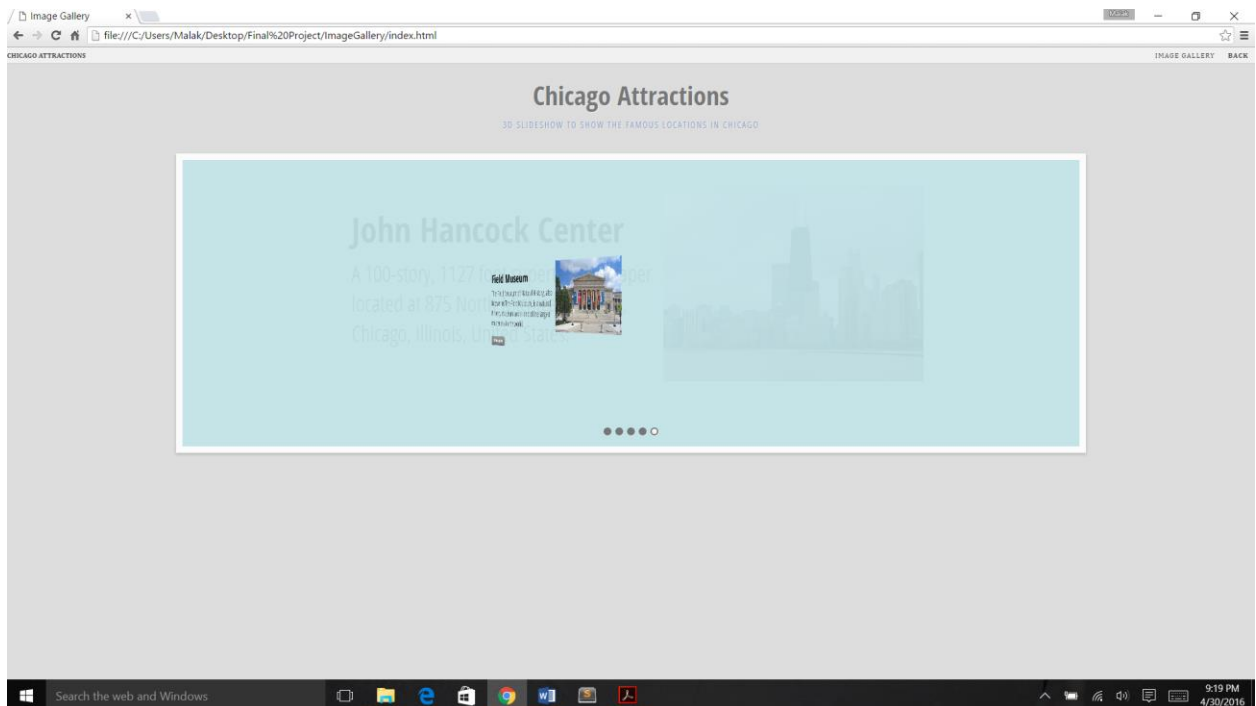
The 3D animation effect can be seen as follows:
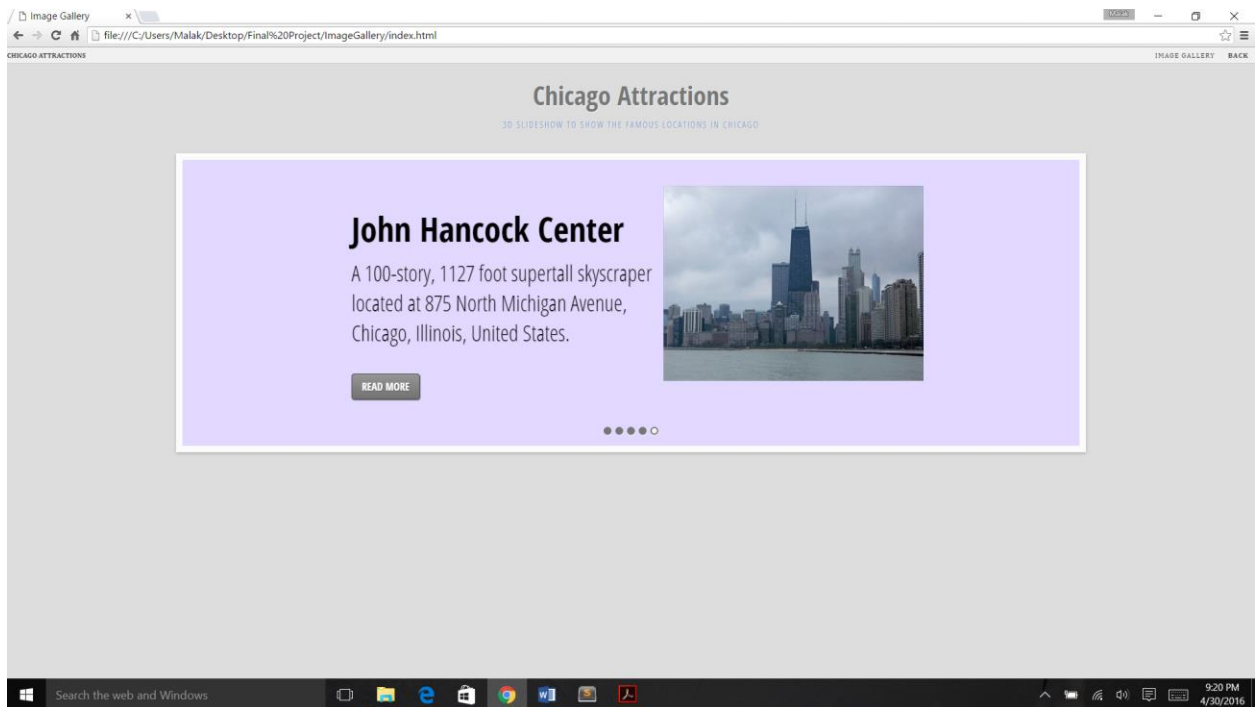
3. Chicago's Famous Food: On clicking the green "View Restaurants" button, the site takes us to a simple webpage which shows the lists of all the famous restaurants in Chicago along with the food they are famous for. The webpage is made using basic **HTML5**, **CSS3** and **jQuery** and it looks as follows:
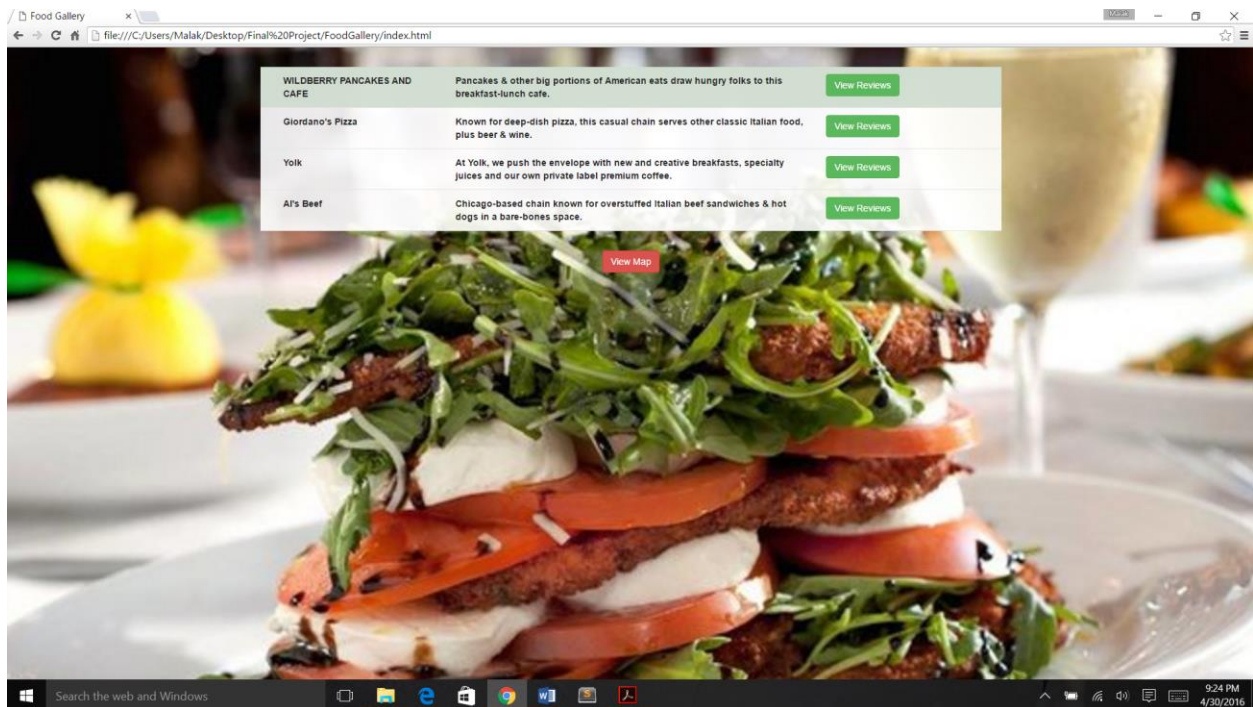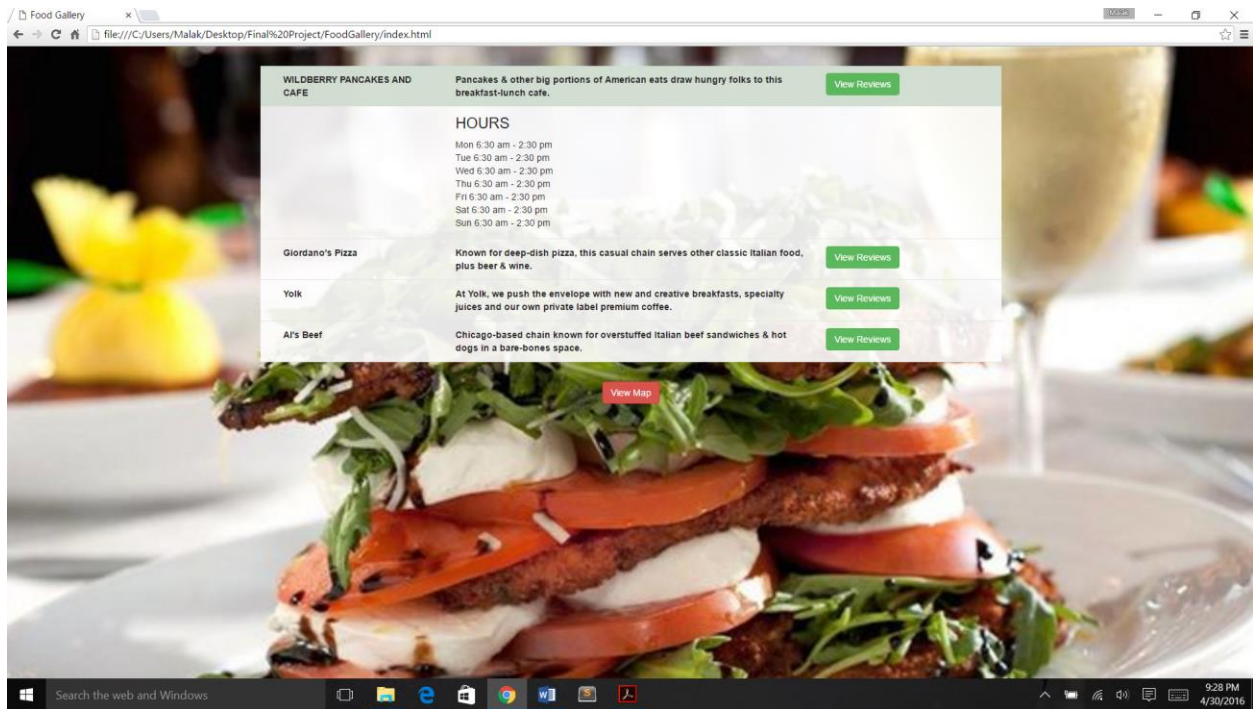
Now as we can see in the above picture, the first portion is highlighted. On clicking the highlighted part it opens a dropdown animation showing the hours of the restaurants.


The same applies for every entry in the webpage. On clicking the "View Reviews" button on the side will lead the user to the respective "yelp.com" review page for that restaurant.

Now the main feature here is the red button written "View Maps" on the middle portion of the screen. On clicking that button will take you to the google maps which shows the locations of these restaurants.
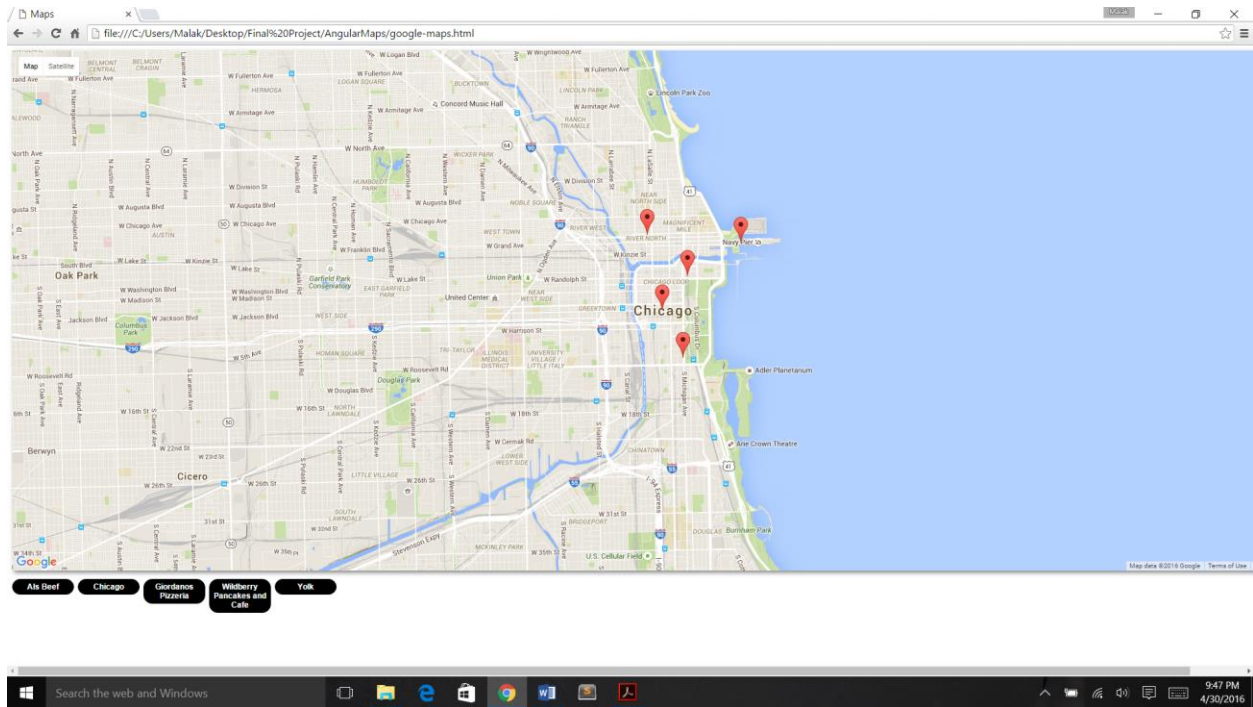
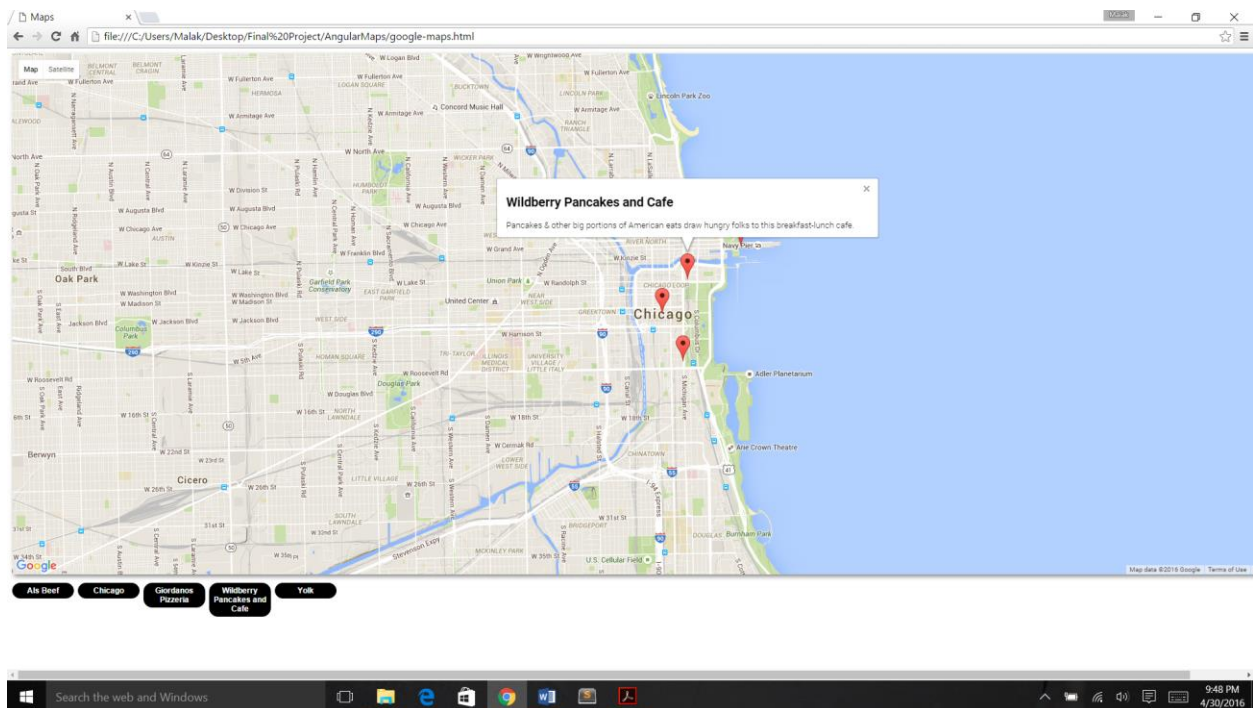On clicking any of the buttons with the names will display information about that place.

Now on the main page there are two tabs in the navigation bar namely Animation and Ratings. On clicking the ratings tab will bring you to a webpage which is made using AngularJS. Here the user

can give likes and dislikes to the restaurants. On clicking the plus button will give a like and on clicking the minus button will give a dislike.
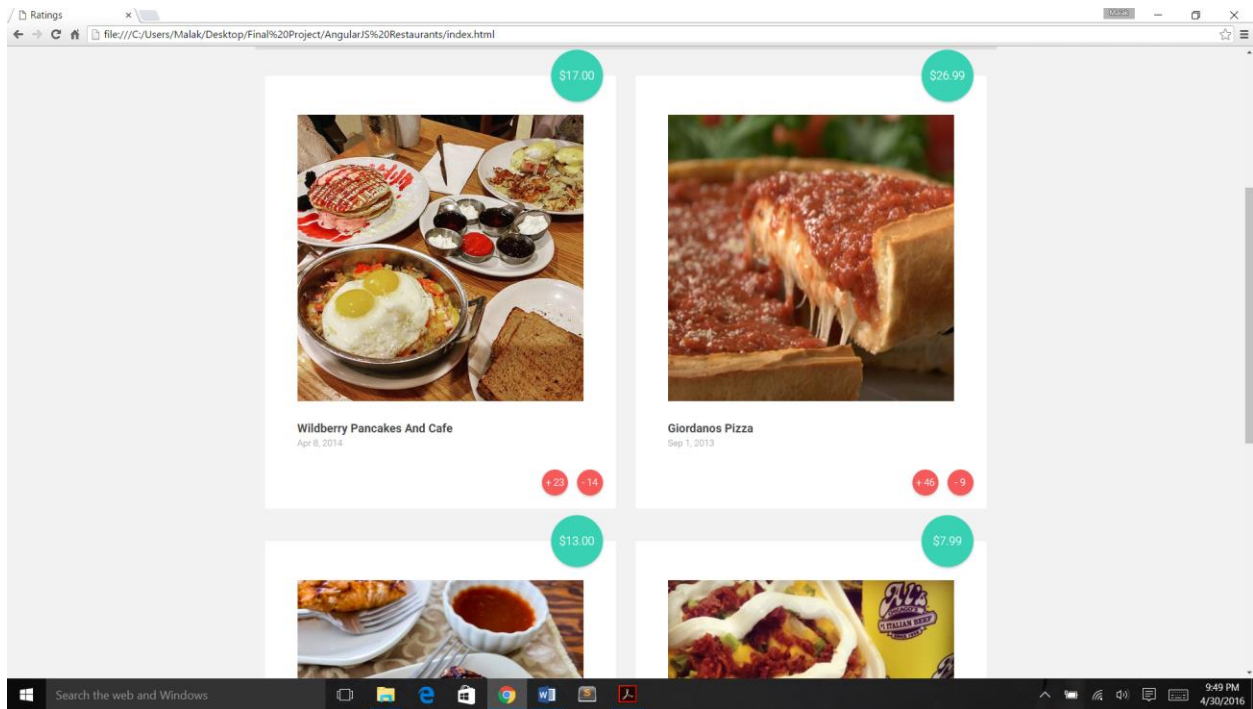
TEST ENVIRONMENT

The project was made on my laptop having the following specifications:

- Model: ASUS Q551L

- Operating System: Windows 10 Home Edition 64-bit

- Processor: Intel Core i7-5500U CPU @2.40GHz

- RAM: 8.00 GB

- Hard disk: 1 TB

- Graphic Card: 2 GB, NVIDIA GEFORCE 940M

- Text Editor: Sublime Text 2 version 2.0.2

This entire project comprises of various programming languages, API, frameworks, and libraries. These are as follows:

- Languages used: HTML5, CSS3, JavaScript.
- Libraries: jQuery, modernizr, createJS.
- Frameworks used: Bootstrap, AngularJS.
- Tools: Sublime Text 2, Google Chrome, Webstorm.

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INSTRUCTIONS

A. Unzip the folder.
B. Run the "page1.html"
C. Click on the respective buttons to go to that particular webpage/animation/slideshow.

INSIGHTS

This project helped me in getting hands on experience with various frameworks, libraries and tools which are used for website development. The important thing here is that I learnt AngularJS which is one of the major framework in creating web based applications. Learning animation was a tough task but I put in lots of time and energy and eventually was able to complete a canvas based animation using jQuery. Such projects help the students in getting the practical knowledge apart from the regular class work.