Spring | 16

GIVE ME 5 CONFECTIONS

CMPE 280

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1. Overview

1.1. Project description

GiveMe5 Confections is an online bakery store that provides nationwide shipping and allows registered customers to browse a variety of cakes and place an order. Customers are prompted to register to use the web app when browsing the cake selections. When logging in as the admin, the summary page displays charts for sales of GiveMe5 in US, preference over cake selections in previous orders, and information of GiveMe5 Branches, respectively.

Besides registration/login, the order page, and the admin page, it also has a "pick up your order" page that provides information of the boutiques where customers could pick up their orders, and a "contact us" page, which displays the boutique location and brief introduction of the chef and staff.

1.2. Individual's contribution

Emy: Contact us page, pie chart on admin page

Minglu Liu: backend server, database

Jia Wang: Pick Up Your Order page, Shipping page

Yingzhu Deng: Registration/Login page, chart of boutique branches on admin page

Wei Si: Home page, map chart on admin page

1.3. Project requirements

- Users are allowed to browse the menu of variety of cakes.
- It prompts users to register.
- Registered users are allowed to place order online.
- It provides contact information, such as boutique address, phone number, hours, to customers who would like to pick up an order in store.
- It provides a brief introduction of chef and staff.
- It displays boutique locations on Google Maps.
- Admin is allowed to see the summary charts of sales in US, customer preference over cake selections, and worldwide boutique information.

1.4. Web UI design

To ensure the usability of the web app, we tried to keep consistency across all pages. The same header and footer display on all pages at the same position. Clicking on the logo always directs users to home page. The sticky navigation bar always displays on the screen and remains at the top right of all pages even if users scroll down to the bottom of the page. So users do not have to look for where to switch to another page, which ensures the smooth user experience.

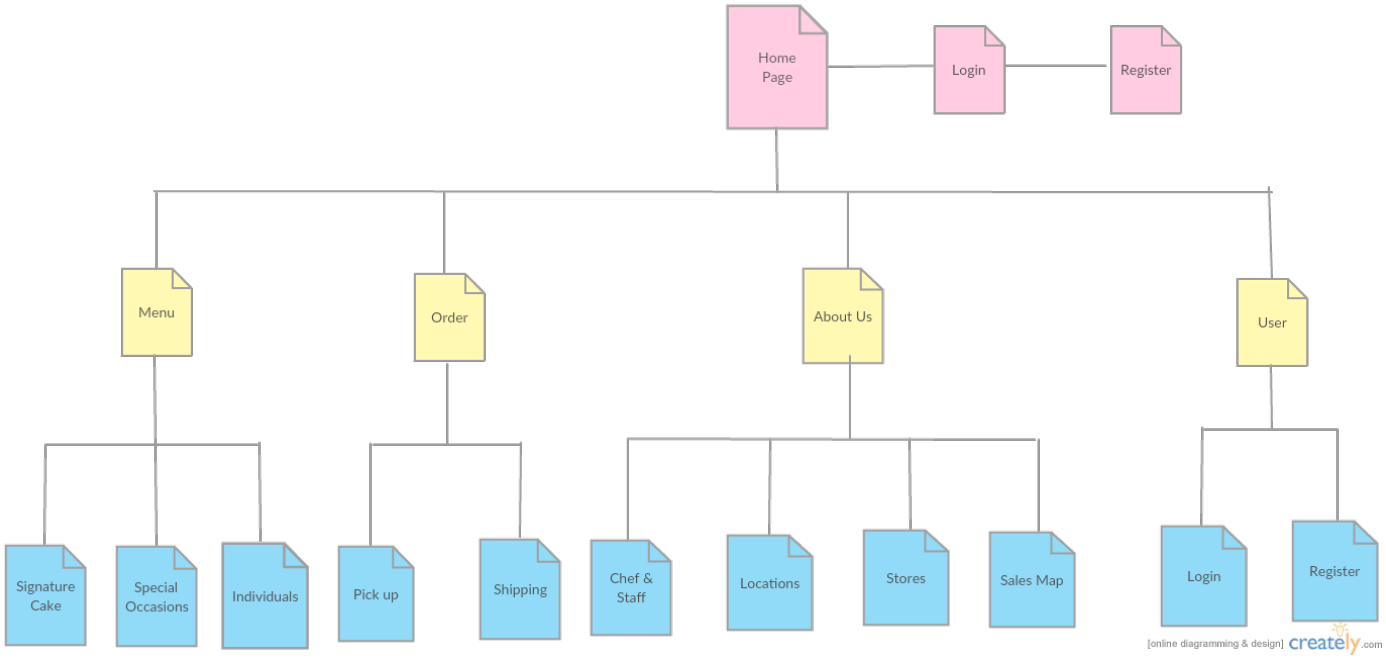
We used home page to advertise our boutiques and promote the cakes on Mother's day, hoping to attract users' attention the moment users open the web page.

We tried to promote accessibility by having placeholders in all form blanks where ask for user's input. All cake images have brief captions so users do not have to read much. Also all images have "alt" attribute that users can read in case the image fails to display.

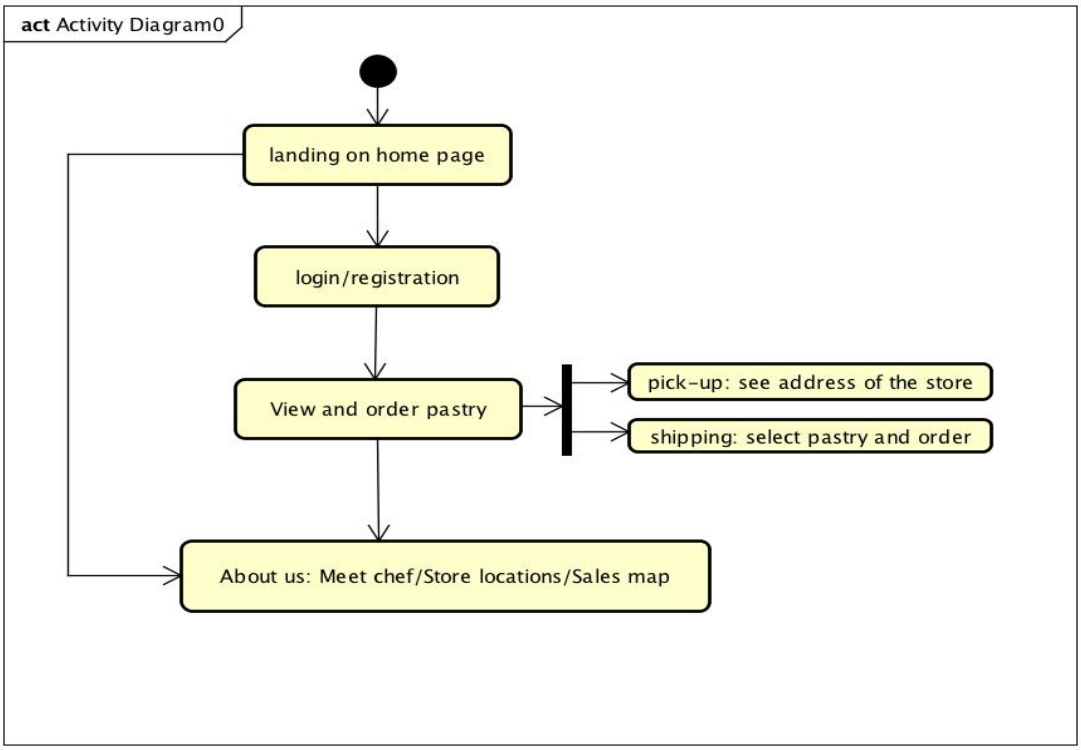
2. Web Design

2.1. Architecture

The diagram below illustrates the architecture of the application.



2.2. Workflow



1. Home page landing

After landing on the main page, three full page ads will appeared cycling with slide effect. User could also scroll down or click Menu on navigation bar to see the pictures of our three series of pastry: signature cakes, special occasions and individuals.

2. Login/Registration

Before order a cake, right click the "Login/Register" on navigation bar, "Login & Registration" window will prompt. New user could sign up an account by providing all information required. Registered user could login by filling the email address and password.

3. Order

User could order pastry online. Both delivery of pick-up and shipping are supported.

a) If click pick-up, user could see address, phone number and work hour of our store.
b) If click shipping, an animation will appear to indicate that we support shipping nationwide.
   i. Users could select the picture of pastry and click "add it to cart". Now the cake is in your cart and the total price is calculated.
   ii. After select all the cakes, users will need to input their names and address and click "order".

A PIE chart could also be generated by click the "DRAW PIE CHART" to show the statistic data of our sales including your order.

4. About us

User could know more about our business by click drop down menus of "About US" in navigation bar.

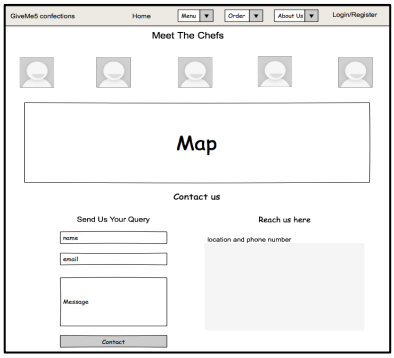
a) User could see pictures of staff in “Chef & Staff” page. User could subscribe news of our store, and contact us by leaving the message to us.
b) When click “location”, a map will appear showing the location of our store.
c) User could see our stores over the world by clicking “stores” and see our sales data in US by clicking “sales map”

2.3 UI Design

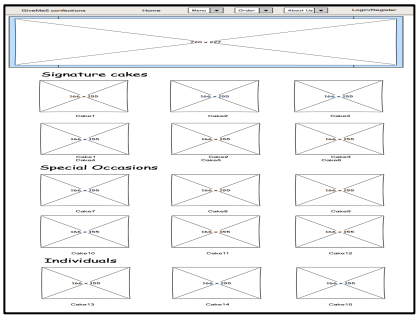
2.3.1 Wireframe

The images below highlight the wireframe of the project.

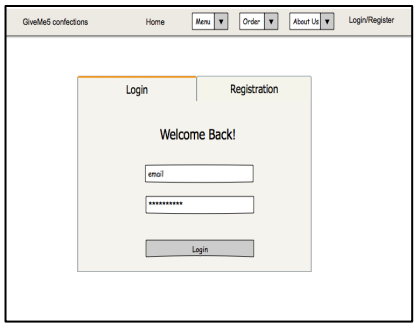
1. This image depicts the team and contact us page:



2. Home page.

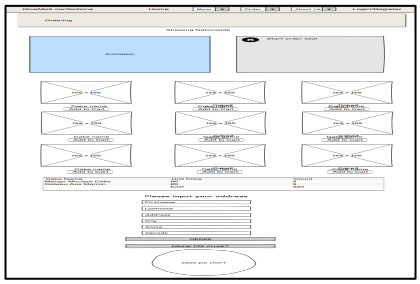


3. Login Page

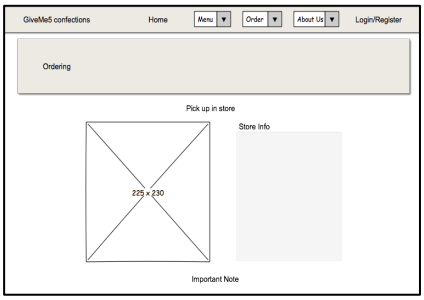


4. Registration Page

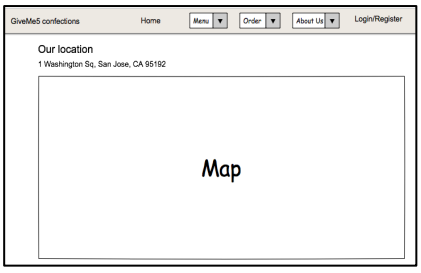
5. Shipping Page



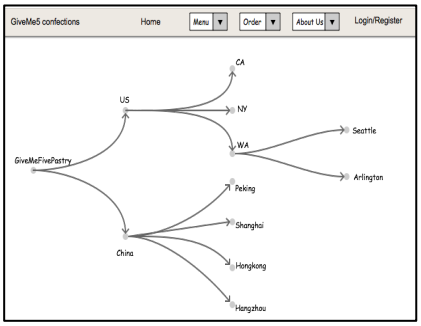
6. Pick up Page



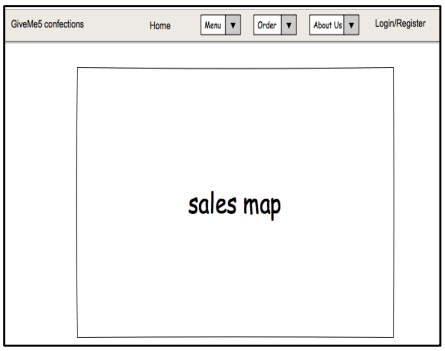
7. Location



8. Stores Chart

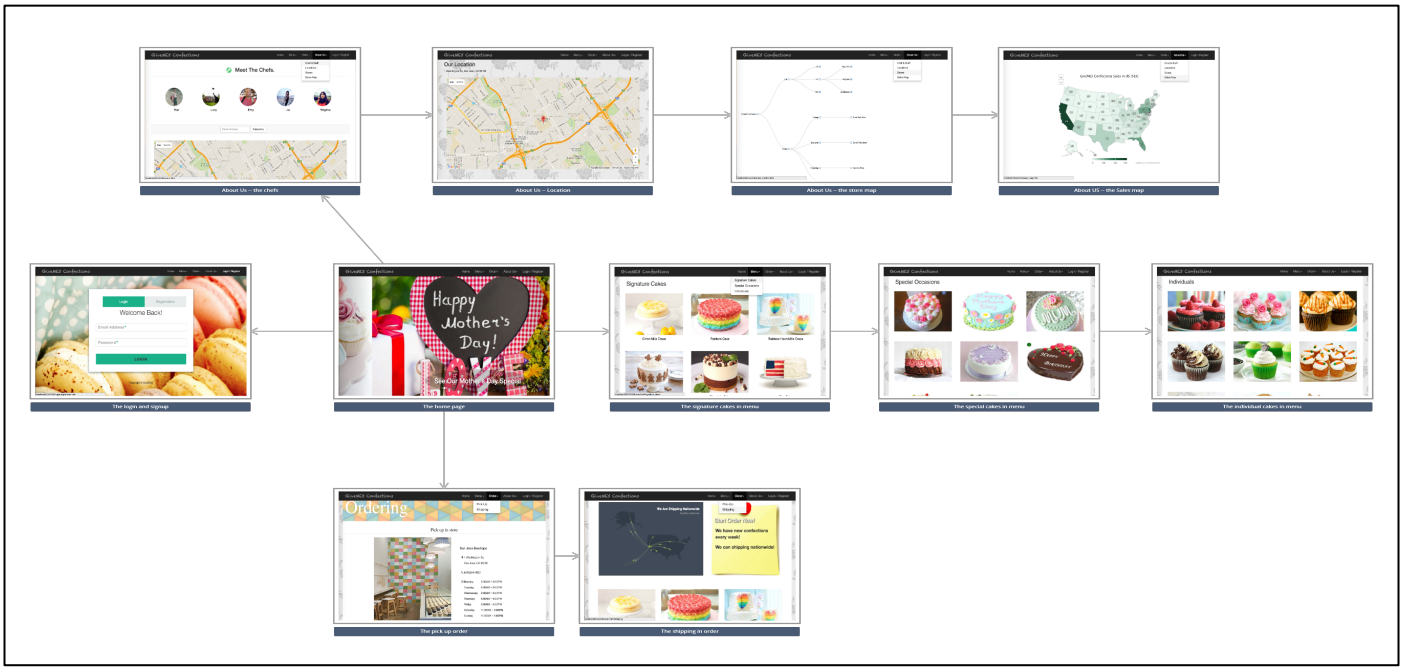


9. Sales map chart



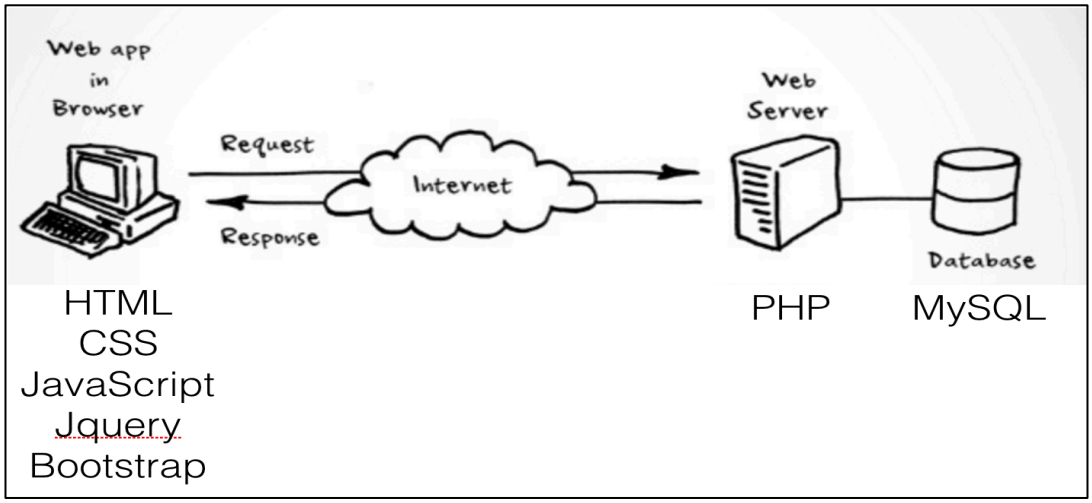
2.3.2. Storyboard

This section depicts the storyboard of the project.



2.4. Server Side Implementation

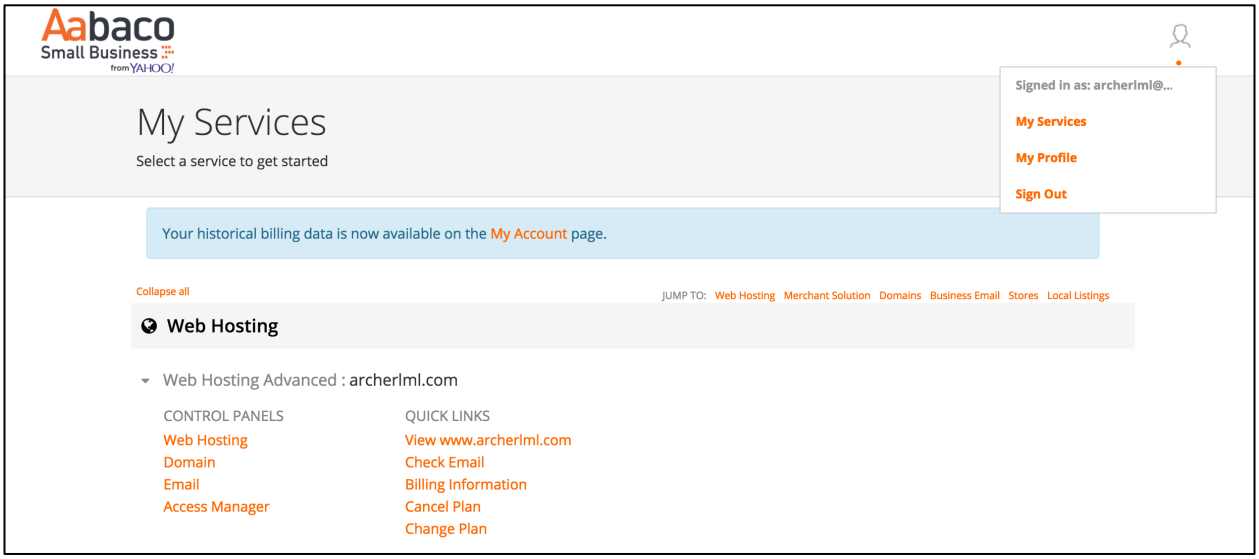
This section provides a detailed description of the server side implementation.



2.4.1. Deployment

We deployed our website on the Internet to the public using the website hosting service provided by Aabaco Small Business Company.

Domain url is: http://archerlml.com/yingzhu/home.html



Files are uploaded using FileZilla after connecting to webhost.

2.4.2. Database

Most of the back-end work was coded in PHP, including user registration and user login, and order information. The client information was persisted to a database using MYSQL. MYSQL was chosen because the information's would be related to one another and SQL was the best choice. The images below depict the information stored onto the database.

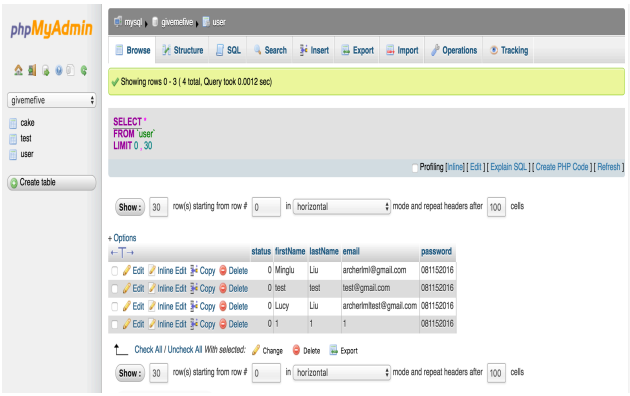


Fig.MySQL table with user information

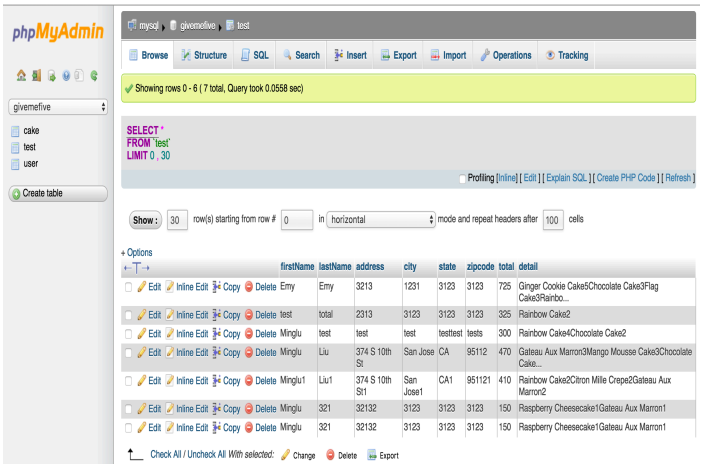


Fig.MySQL table with order information

We are using MySQL to store user information, order information, and cake sales. Database data could be fetched by php. We designed and coded the shopping cart related functions to dynamically record the items in shopping cart by making every item an object and treat shopping cart as an array.
All items in shopping cart are displayed in a table with total cost showing at the bottom using JavaScript. Once the user submits an order, all the shopping cart information will pass to MySQL

database, along with the shipping address. The total cost will be stored under “total” column, and the details of the order will be passed as a string under the “detail” column.

3. Views

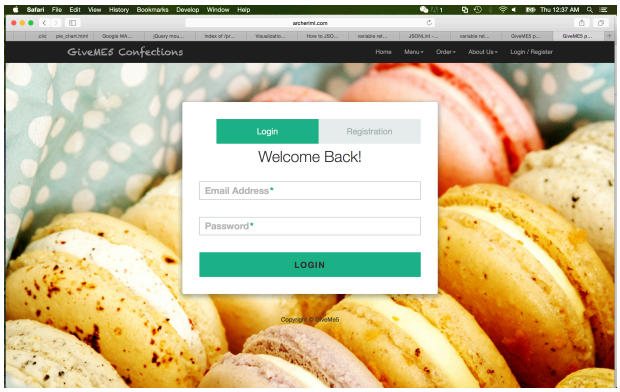
This section will provide a detailed description of both administrator and customer views.

3.1. Administrator View

This section provides a well-detailed description of the administrator.

3.1.2. Administrators Login Page

An administrator has a different view page compared to that of a customer. The administrator is able to upload new cakes, and as well delete and view orders from a customer. A login page is provided and the administrator enters their credentials to gain authorization. The image below displays the login page for an administrator.

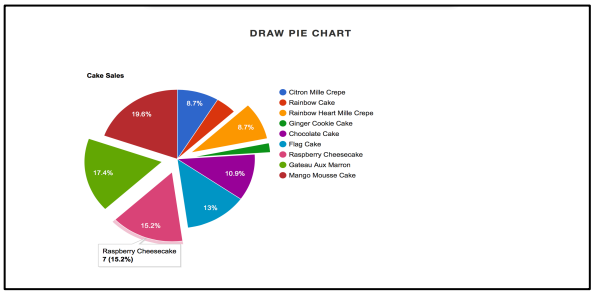


3.1.2. Charts

Various charts are provided for an admin to represent different statistics. This provides insights for the company in terms from a business standpoint. This engages the company with their clients and helps yield more profit margin and quality of service. Several charts were provided and thus include: Google pie chart, branch chart, and sales map chart.

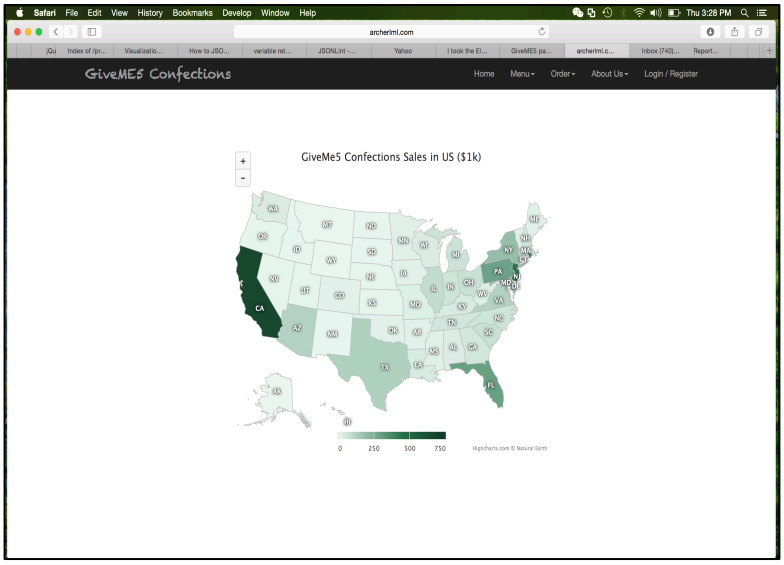
3.1.2.1 Google pie chart:

Google pie chart was developed using Google charts and it takes into the number of cakes versus number of orders. The data is read from the database and parsed into a array containing a list of each cake and the order number for a particular day. The image below shows the execution of the pie chart.



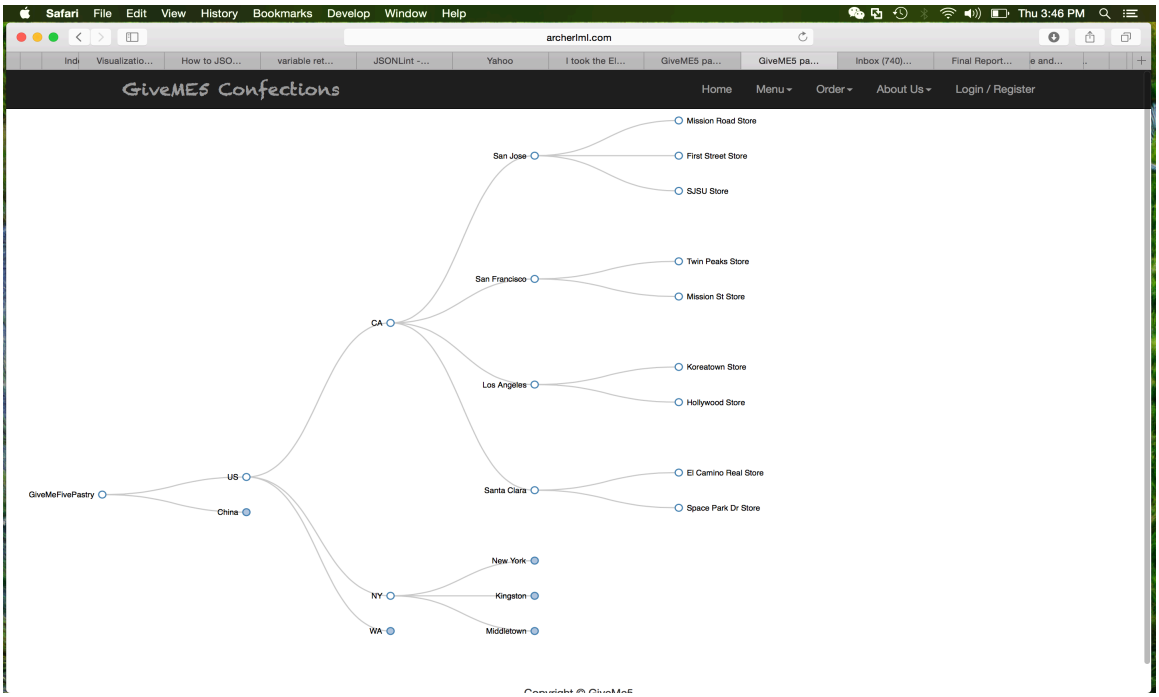
3.1.2.2. Sales map chart

The sale chart tracks the sales in each state nationwide. The image below displays the number of sales of cakes in each state nationwide.



3.1.2.3. Address Chart

The address chart maps the location of all the stores in the US and China. It gives a representation of where the stores are located. This was done using D3 JS charts. By clicking on the several points, it expands and provides locations to the stores based by Country, State, and Cites.

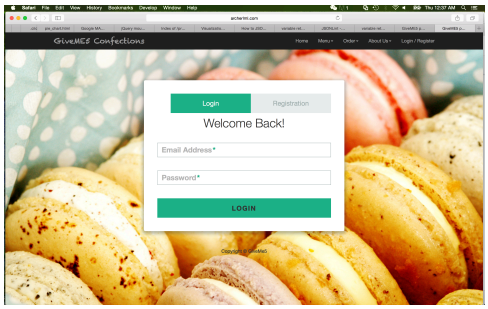


3.2. Customers View

This section provides a well-detailed description of a customer's view and functionality.

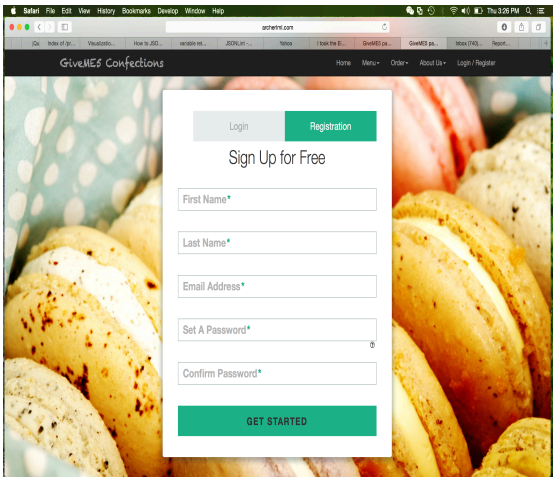
3.2.1 Login Page

The login page will take input parameters from the client such as email and password. Since this will be a post request, the password will be encrypted. The client will be required to input their username and password. If the client enters the wrong username or password an error will be displayed prompting the user to enter the correct information. The login page was designed using twitter bootstrap, and JQuery.



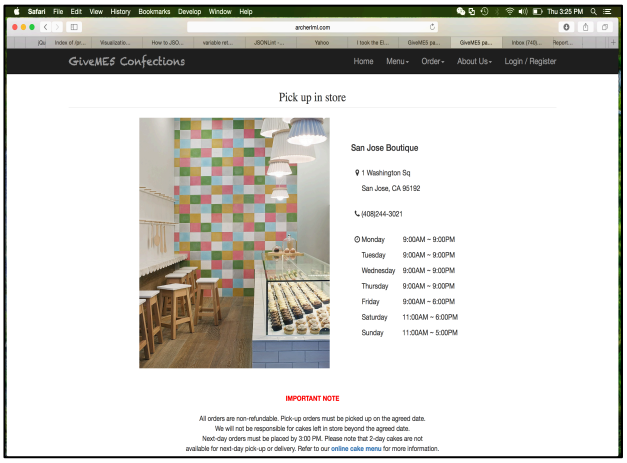
3.2.1. Registration Page

The registration page is provided for clients to save their information. The registration page takes email, first name, last name, and password. The user's information will be persisted to the database. The user's information will be stored in a MYSQL database. The image below shows the registration page upon visiting the site. Each field is required and if the user fails to enter a specific field, he or she would not be able to register on the site. A template was used in the design of the registration page. The page is responsive and can be viewed on a phone's native browser.

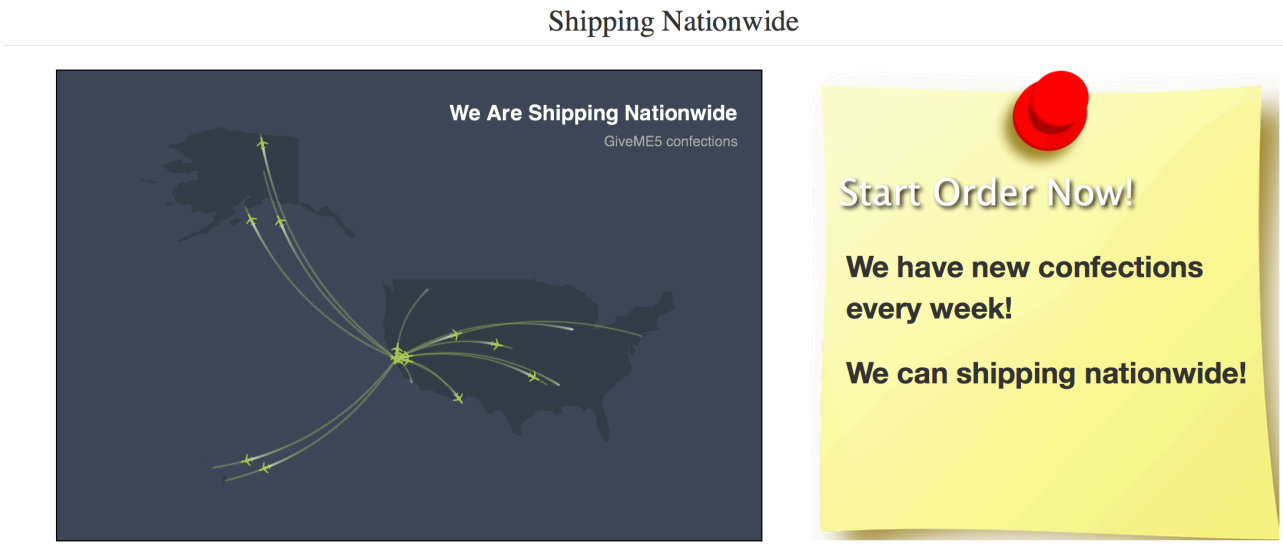


3.2.3. Shipping

Shipping page again highlights different cakes being sold on the website. When a customer hovers a cake, a price is displayed on the cake. When the customer clicks on a cake, a new window pops up and focuses on the cake. The shipping page provides the clients shipping information where the cakes need to be delivered.



Also on the shipping page, displays a real time simulation of flights. Below is an image of the animation.



The pic above shows simulations of packages been delivered around the country.

3.2.4. Order

The order page allows customers to order their cakes. This page contains lots of information that include giving the customer the option of picking up their order from a store, or shipping their items to their specific address. An important note highlighted on the order page, indicates customers' must read before making an order. Different varieties of cakes are provided on the page as well as the price for each cake. A cart will be provided which displays the number of items and as well as final purchase for a particular order.

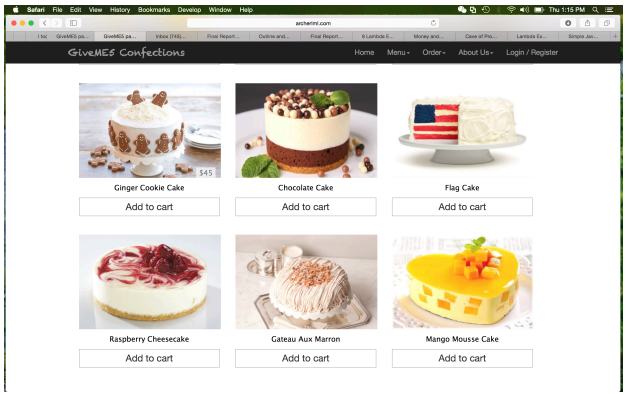


Image above displays varieties of cakes ready to be added to a cart

4. Features

4.1. Cross Browser Compatibility

To avoid different styles across different browsers, we used normalize.css to reset user agent before applying the customized stylesheets.

To ensure the functionality of the web app and user interactivity across different browsers, we used jQuery, the third party JavaScript library to implement functions.

4.3 HTML5 features

- Figure and figcaption are used to display cake images.
- Email-type input, required, auto focus and place holders are used in Registration/login forms.
- Header and footer are used instead of .
- Data attributes are used to handle input and manipulate data.