Project Report

CS 6314.501- Web Programming Languages

Online Food Delivery Website

WokStudio

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1. Project Description and Screenshots

The project aimed at creating an online food delivery system for a restaurant – **WokStudio**. It involves customers to browse through the menu of the restaurant and make an order. We have assumed in this project that the customers will have to register and login to the website to use the online service. Customers can filter their search based on certain categories such as food preference, cuisine, etc. Customers can add their choice of food items to their carts and make an order.

Our project includes the following:

- Landing Page
- Login Page
- Sign up Page
- Food Menu Page
- Customer Cart Page
- Customer profile page
- Admin Page

1.1 The Landing Page

The Landing page is the first page that is displayed when customer visit the website. It gives them the option to sign in to the website.

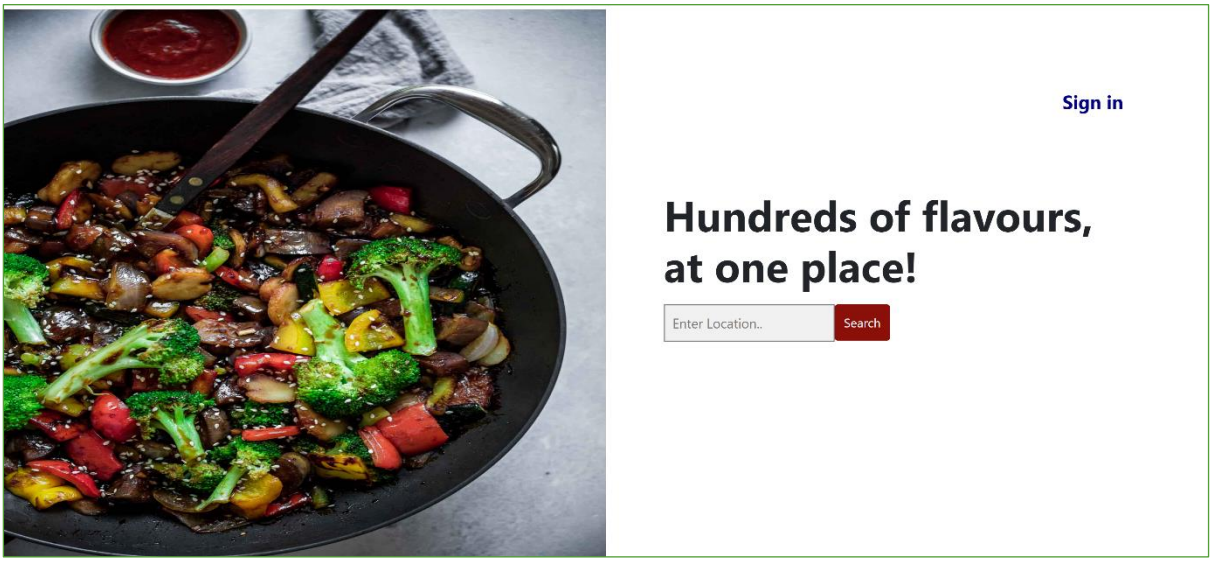

Figure 1 - Landing Page

1.2 The Login Page

The customers use their user credentials – username and password – to log in to the system. Once the users enter their credentials, they validated for authentication with the backend. If a user is authenticated, an access token stores the user's identity so that the

user remains authenticated throughout its session. If customers do not have already have an account, they are given the option to Sign Up for the website.

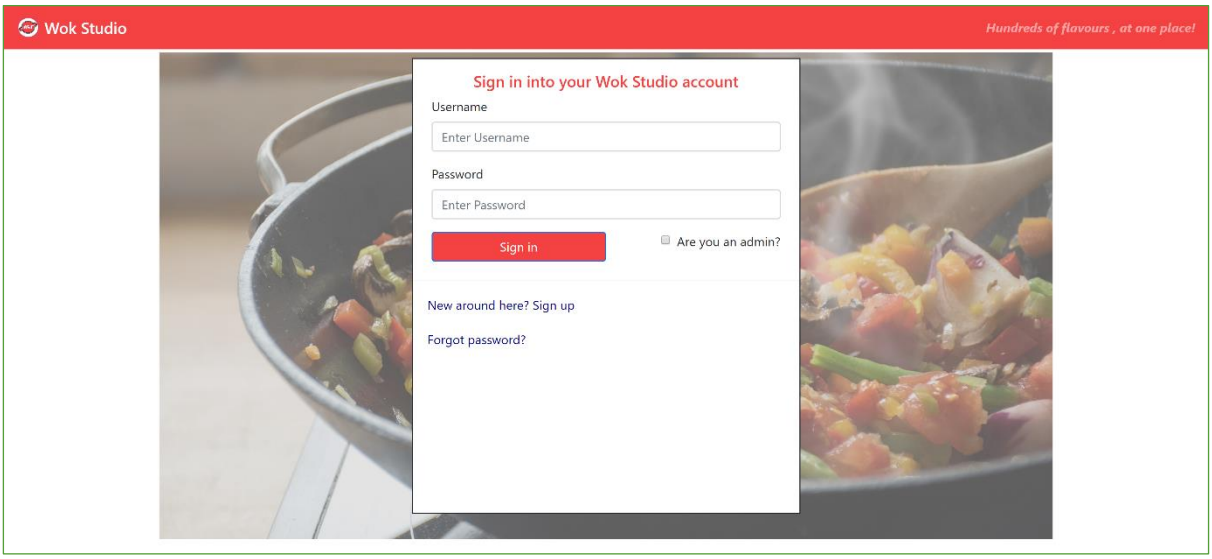

Figure 2- User Log In Page

1.3 The Sign Up Page

The Sign up page allows users to create an account on the website. The users must enter their name, username, email address, password and phone number in order to create an account. Once users successfully sign up, they are redirected to the Login page.

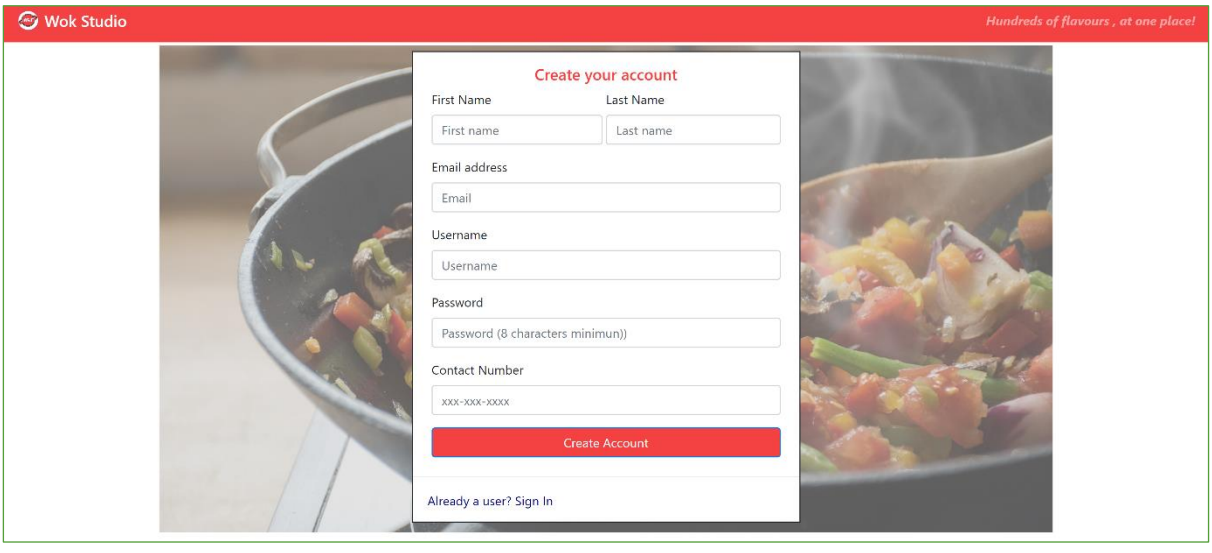

Figure 3 - User Sign Up page

1.4 Food Menu Page

This page displays the food items that the restaurant offers for delivery.

- Customers can search for a particular food item using the search bar. They can further their search by using the available filters, i.e., by rating and price range.
- The page further displays whether a food item is available to order or is currently out of stock, its price and average star rating.
- Clicking a dish displays a description about the product.
- If customers would like to order the item, they can simply click the 'add to basket' option. A success message is displayed when the item is successfully added to the cart.

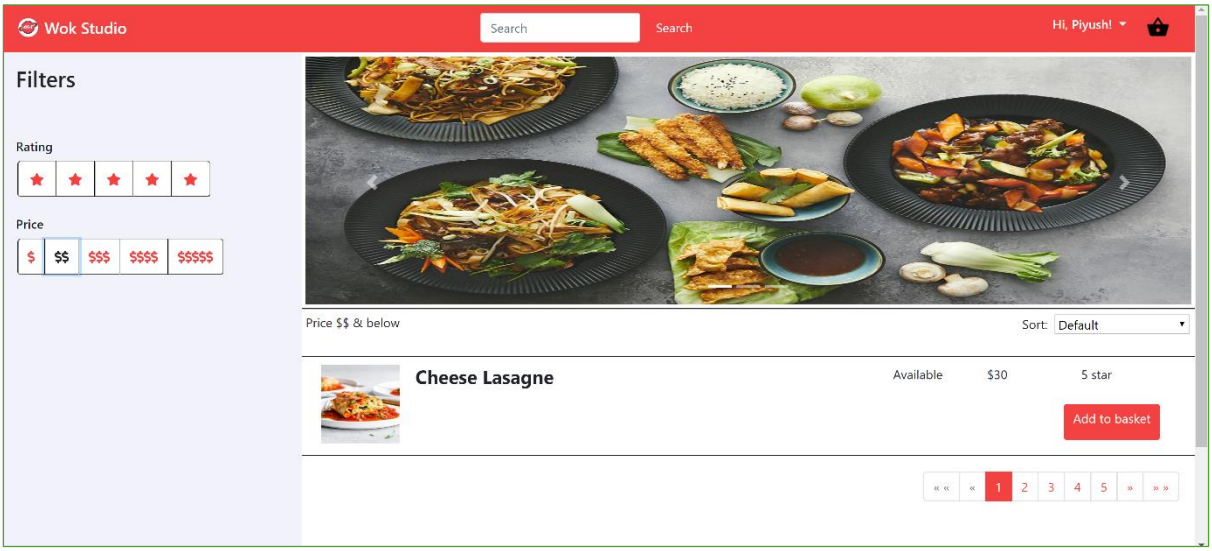

Figure 4 - Food Menu Page

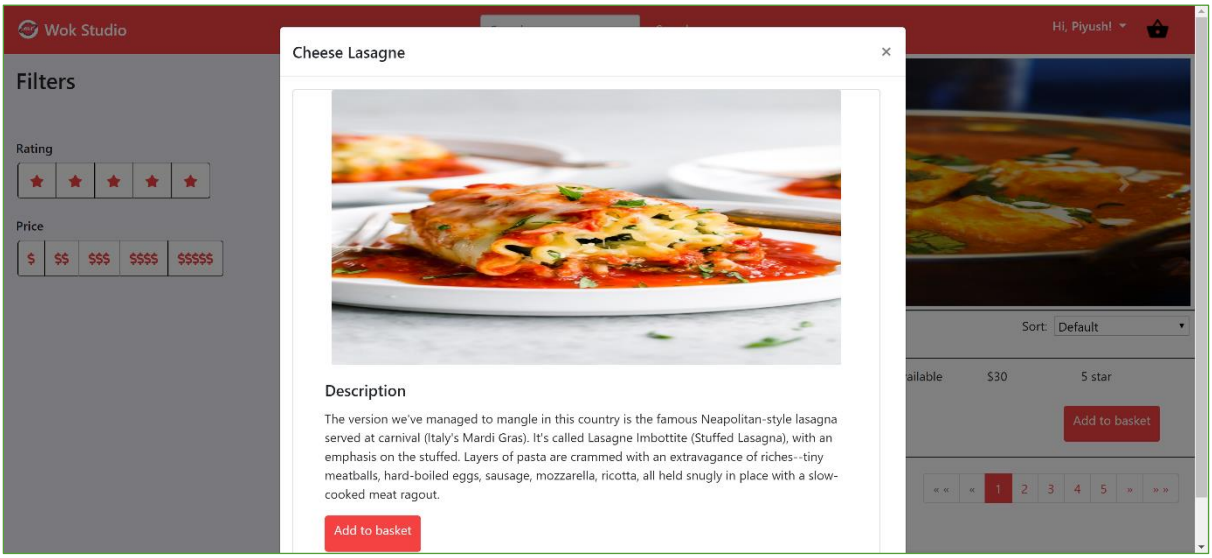

Figure 5 - Food Item Description

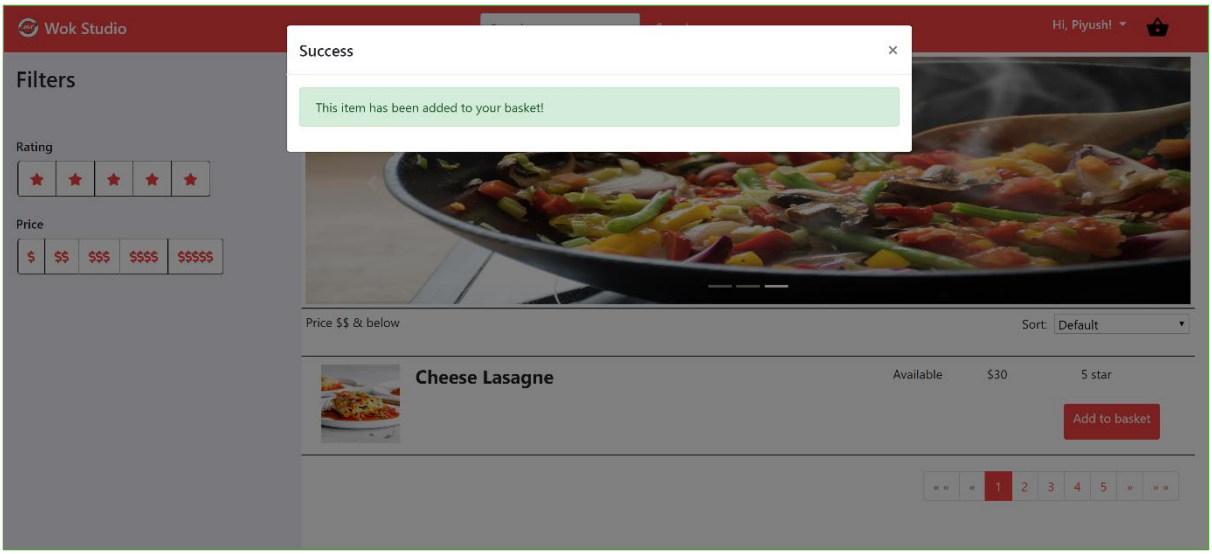

Figure 6 - Add To Basket Success Message

1.5 Customer Cart

Customer can view their carts to see the current items in their ordering list.

- It will display quantity of each item and the total amount for the order.
- The customer can also delete an item from the cart.
- Once customers finish ordering, they can click the 'Proceed to Checkout' option to place the order.

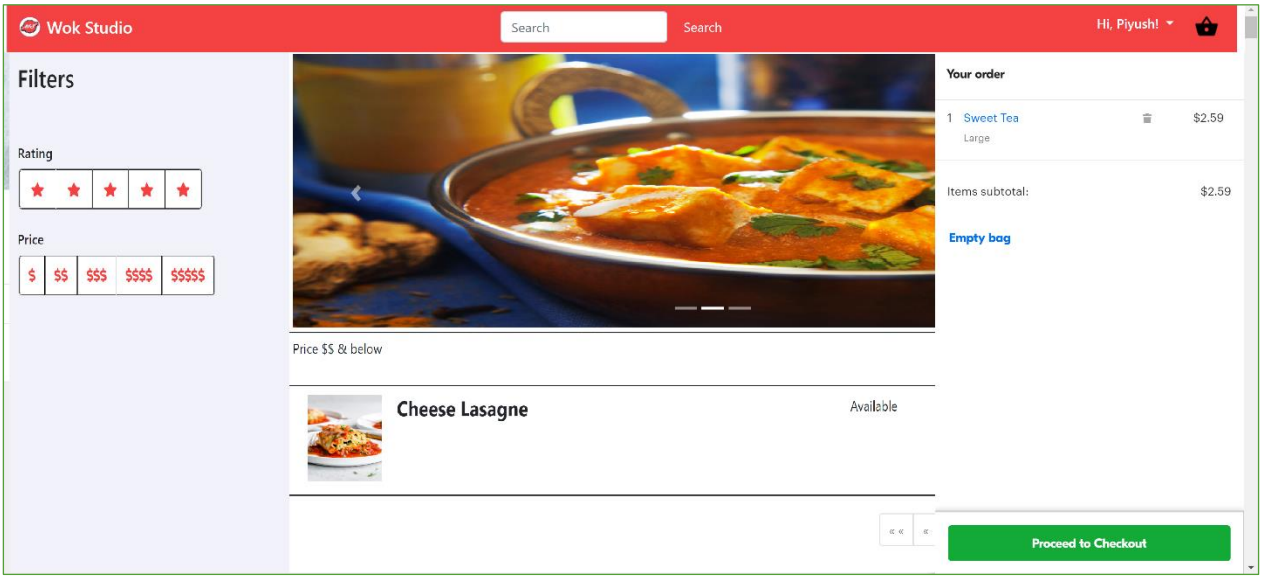

Figure 7 - Customer Cart

1.6 Customer profile page

This page displays the details of a customer account

- Customers can view their favorite items added by them previously
- They can view their order status
- They can also view their past orders
- The customers can view/update their basic information and add or update their current address.

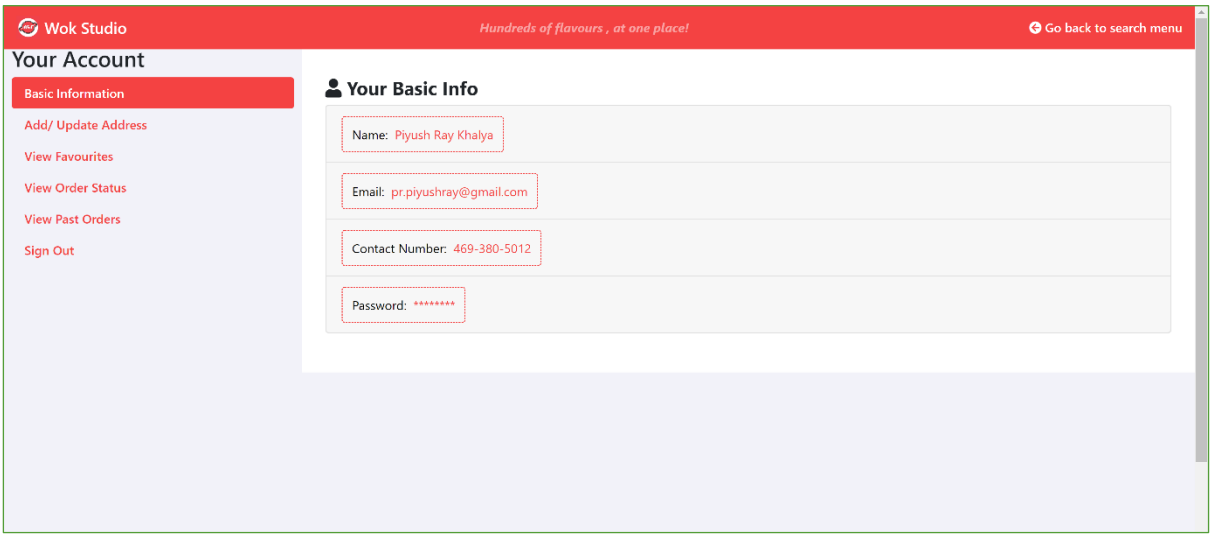

Figure 8 - Customer Profile Page

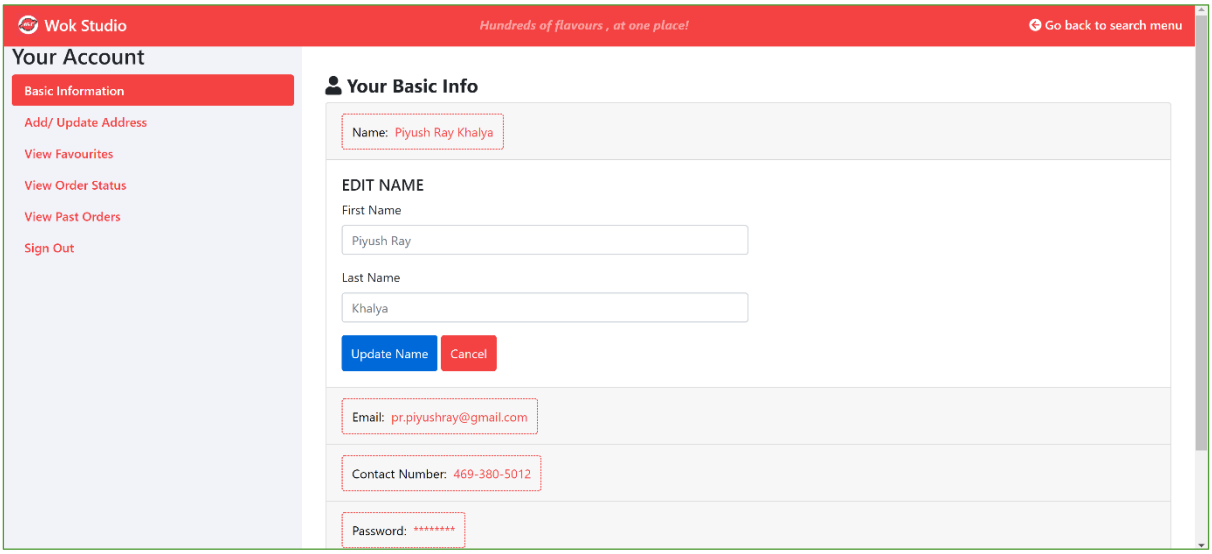

Figure 9 - Update Customer Information

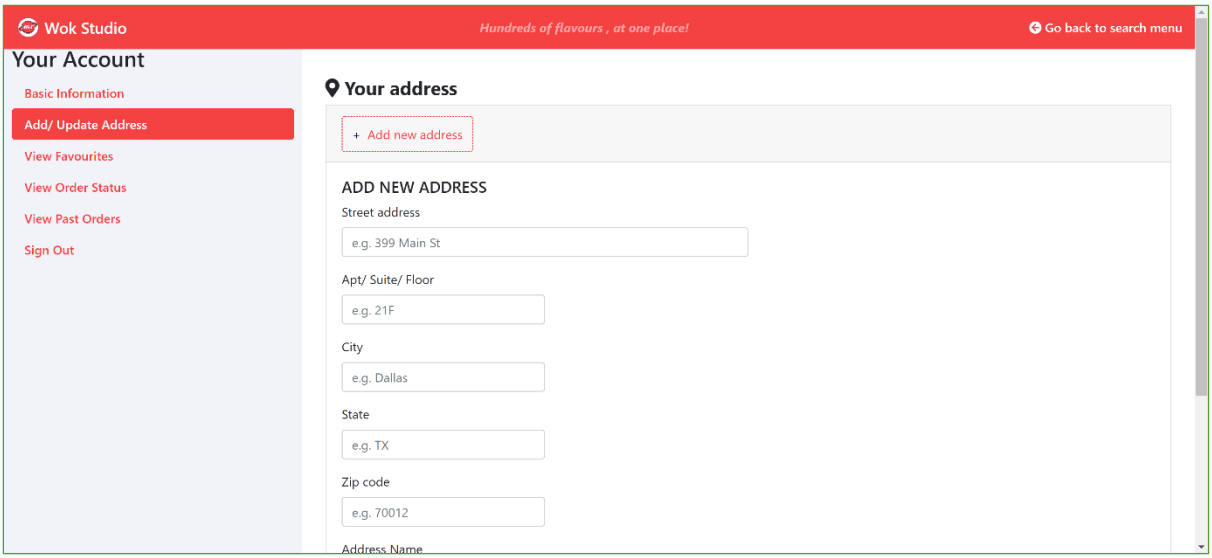

Figure 10 - Add Address Page

1.7 Admin Page

The admin can log into the system with the 'Admin role' and perform the following functionalities:

1. **Add Product:** The admin can add a product by specifying its details such as Cuisine, Food Type, Category, Product Name, Price and an image.
2. **Display Products:** The admin can view the list the products that are available on the website.
3. **Update or Delete a Product:** The Admin can select an item from the product list and either update it or delete it.
4. **Add Admin:** A current admin can add new admin members by entering their name, email address and password.

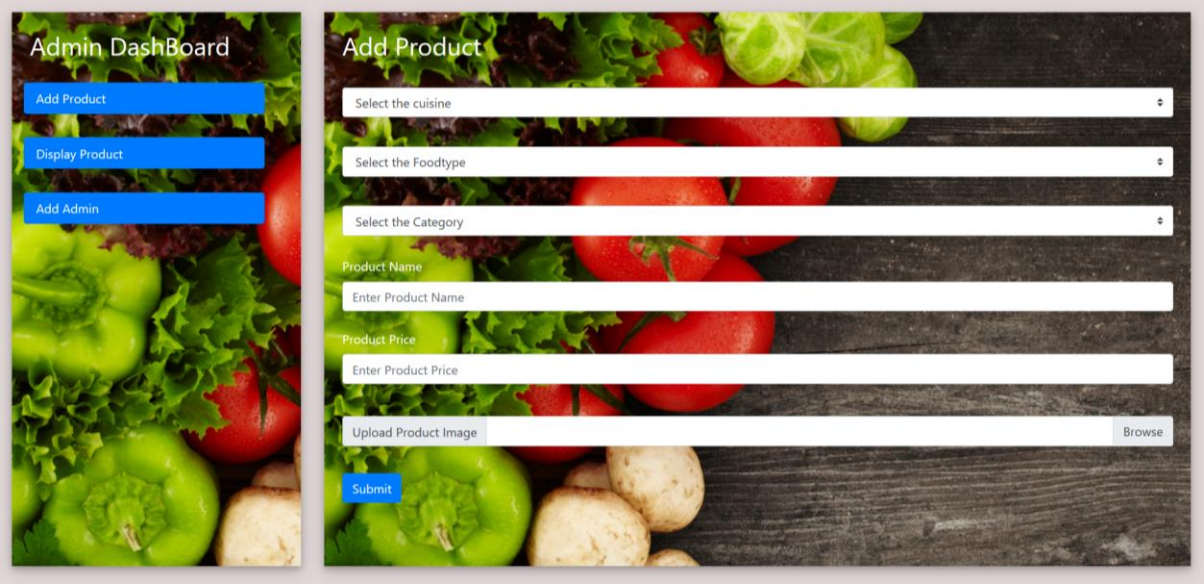

Figure 11- Add Product Page

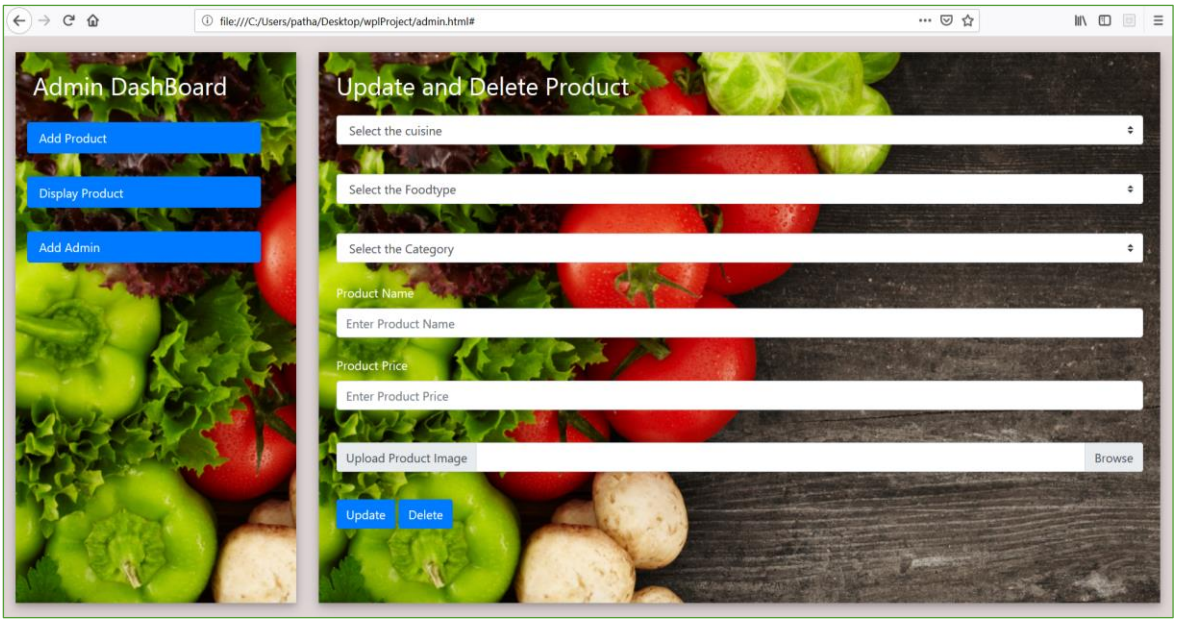

Figure 12 - Update or Delete a product

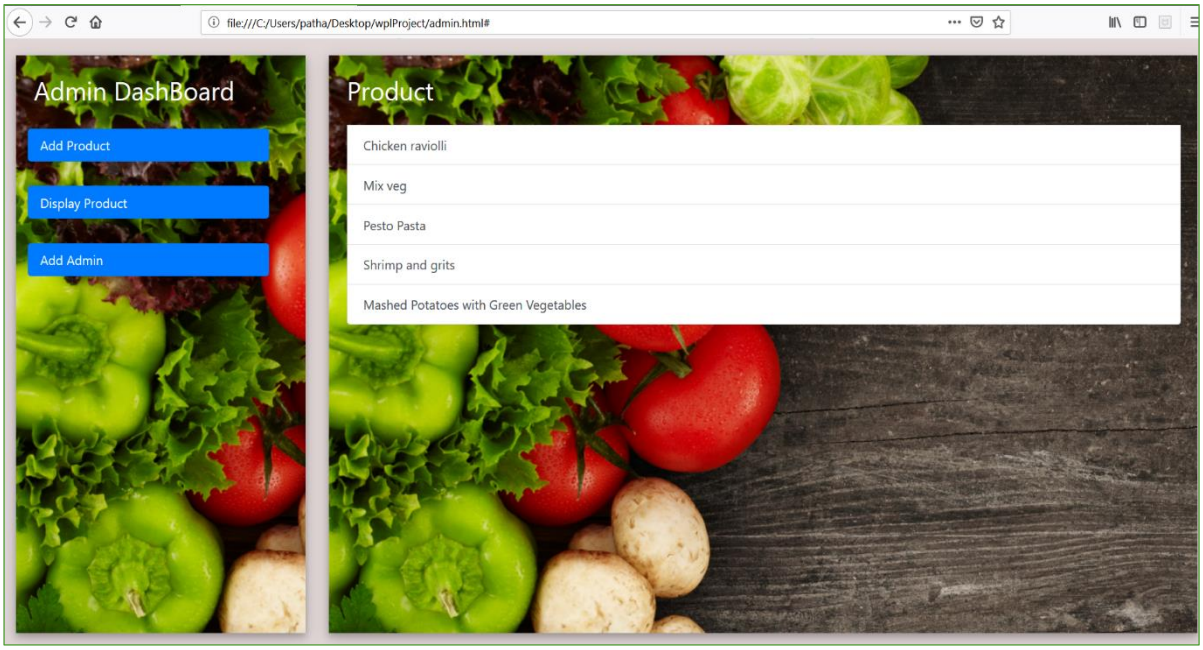

Figure 13 - Display Products

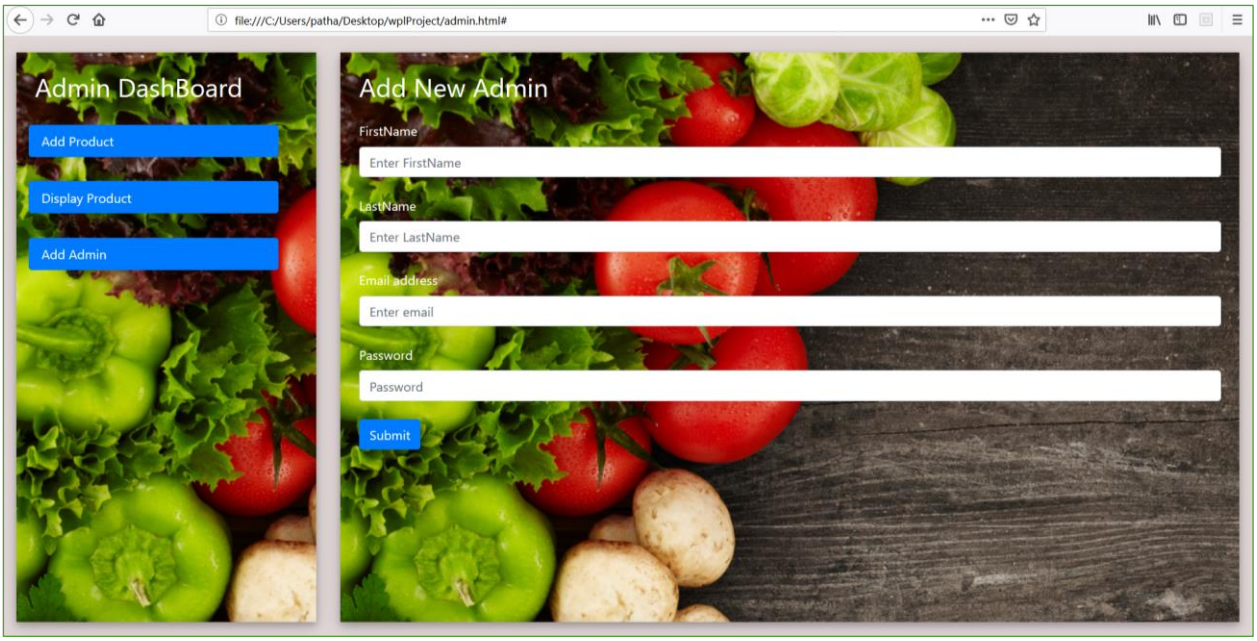

Figure 14 - Add a new admin

2. Database Design

Our website database includes the following Tables:

1. CUISINES

```
DROP TABLE IF EXISTS `cuisines`;
CREATE TABLE `cuisines` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `cuisineName` varchar(15) DEFAULT NULL,
  PRIMARY KEY (`id`)
)
```

2. CUSTOMER

```
DROP TABLE IF EXISTS `customer`;
CREATE TABLE `customer` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `username` varchar(20) DEFAULT NULL,
  `pwd` varchar(15) DEFAULT NULL,
  PRIMARY KEY (`id`)
```

3. DISCOUNTOFFERS

```
DROP TABLE IF EXISTS `discountoffers`;
CREATE TABLE `discountoffers` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `productId` int(11) DEFAULT NULL,
  `couponint` varchar(10) DEFAULT NULL,
  `discount` double DEFAULT NULL,
```

```
  PRIMARY KEY (`id`),
  KEY `DiscountProductId_idx` (`productId`),
  CONSTRAINT `DiscountProductId` FOREIGN KEY (`productId`) REFERENCES `product`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
)
```

4. FAVORITES

```
DROP TABLE IF EXISTS `favorites`;
CREATE TABLE `favorites` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `userId` int(11) DEFAULT NULL,
  `productId` int(11) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `FavoriteProductId_idx` (`productId`),
  KEY `FavoriteUserId_idx` (`userId`),
  CONSTRAINT `FavoriteProductId` FOREIGN KEY (`productId`) REFERENCES `product`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `FavoriteUserId` FOREIGN KEY (`userId`) REFERENCES `customer` (`id`)
ON DELETE CASCADE ON UPDATE CASCADE
)
```

5. FOOD PREFERENCE

```
DROP TABLE IF EXISTS `foodpreference`;
CREATE TABLE `foodpreference` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `foodPreference` varchar(10) DEFAULT NULL,
  PRIMARY KEY (`id`)
)
```

6. FOOD TYPE

```
DROP TABLE IF EXISTS `foodtype`;
CREATE TABLE `foodtype` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `foodType` varchar(10) DEFAULT NULL,
  PRIMARY KEY (`id`)
)
```

7. ORDERS

```
DROP TABLE IF EXISTS `orders`;
CREATE TABLE `orders` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `productId` int(11) DEFAULT NULL,
  `userId` int(11) DEFAULT NULL,
  `orderDate` date DEFAULT NULL,
  `amount` double DEFAULT NULL,
  `status` varchar(10) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `OrderProductId_idx` (`productId`),
  KEY `OrderUserId_idx` (`userId`),
  CONSTRAINT `OrderProductId` FOREIGN KEY (`productId`) REFERENCES `product`
(`id`),
  CONSTRAINT `OrderUserId` FOREIGN KEY (`userId`) REFERENCES `customer` (`id`)
)
```

8. PRODUCT

```
DROP TABLE IF EXISTS `product`;
CREATE TABLE `product` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `title` varchar(30) DEFAULT NULL,
  `cuisineId` int(11) DEFAULT NULL,
  `foodPrefId` int(11) DEFAULT NULL,
  `protienId` int(11) DEFAULT NULL,
  `typeId` int(11) DEFAULT NULL,
  `price` int(11) DEFAULT NULL,
  `princeRange` varchar(10) DEFAULT NULL,
  `avgRating` int(11) DEFAULT NULL,
  `stockQty` int(11) DEFAULT NULL,
  `timeOfDay` varchar(10) DEFAULT NULL,
  `imageId` int(11) DEFAULT NULL,
  `filePath` longtext,
  PRIMARY KEY (`id`),
  KEY `ProductCuisineId_idx` (`cuisineId`),
  KEY `ProductFoodPrefId_idx` (`foodPrefId`),
  KEY `ProductProteinId_idx` (`protienId`),
  KEY `ProductTypeId_idx` (`typeId`),
  CONSTRAINT `ProductCuisineId` FOREIGN KEY (`cuisineId`) REFERENCES `cuisines`
(`id`) ON DELETE SET NULL ON UPDATE SET NULL,
  CONSTRAINT `ProductFoodPrefId` FOREIGN KEY (`foodPrefId`) REFERENCES
`foodpreference` (`id`) ON DELETE SET NULL ON UPDATE SET NULL,
  CONSTRAINT `ProductProteinId` FOREIGN KEY (`protienId`) REFERENCES `protein`
(`id`) ON DELETE SET NULL ON UPDATE SET NULL,
  CONSTRAINT `ProductTypeId` FOREIGN KEY (`typeId`) REFERENCES `foodtype` (`id`)
ON DELETE SET NULL ON UPDATE SET NULL
)
```

9. PROTEIN

```
DROP TABLE IF EXISTS `protein`;
CREATE TABLE `protein` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `proteinName` varchar(15) DEFAULT NULL,
  PRIMARY KEY (`id`)
)
```

10. RATINGS

```
DROP TABLE IF EXISTS `ratings`;
CREATE TABLE `ratings` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `rating` int(11) DEFAULT NULL,
  `productId` int(11) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `RatingProductId_idx` (`productId`),
  CONSTRAINT `RatingProductId` FOREIGN KEY (`productId`) REFERENCES `product`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE
)
```

11. REVIEW

```
DROP TABLE IF EXISTS `review`;
CREATE TABLE `review` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `productId` int(11) DEFAULT NULL,
  `userId` int(11) DEFAULT NULL,
  `review` longtext,
  PRIMARY KEY (`id`),
  KEY `ReviewProductId_idx` (`productId`),
  KEY `ReviewUserId_idx` (`userId`),
  CONSTRAINT `ReviewProductId` FOREIGN KEY (`productId`) REFERENCES `product`
(`id`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `ReviewUserId` FOREIGN KEY (`userId`) REFERENCES `customer` (`id`) ON
DELETE CASCADE ON UPDATE CASCADE
)
```

12. USER ADMIN

```
DROP TABLE IF EXISTS `useradmin`;
CREATE TABLE `useradmin` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `username` varchar(20) DEFAULT NULL,
  `pwd` varchar(15) DEFAULT NULL,
  PRIMARY KEY (`id`)
)
```

13. USER PROFILE

```
DROP TABLE IF EXISTS `userprofile`;
CREATE TABLE `userprofile` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `userId` int(11) DEFAULT NULL,
  `firstName` varchar(20) NOT NULL,
  `lastName` varchar(20) NOT NULL,
  `emailAddress` varchar(50) NOT NULL,
  `address` longtext,
  `phoneint` int(11) DEFAULT NULL,
  PRIMARY KEY (`id`),
  KEY `ProfileUserId_idx` (`userId`),
  CONSTRAINT `ProfileUserId` FOREIGN KEY (`userId`) REFERENCES `customer` (`id`)
)
```

3. Languages/frameworks used for implementation

This Project has been created using

- Angular for the front end
- Node.js for the backend
- MySQL for the database

4. Work division among team members

Member	Contribution
Meghna Mathur	Back-end User Authorization and Authentication, Database Design, Report
Rishika Parashar	Back-end - Sign up, User Profile, Cart, Menu Page, Admin Pages
Aniket Pathak	Landing Page, Admin Pages – Front-end
Piyush Khalya	Sign up, User Profile, Cart, Menu Page - Front-end, Search