FOODINE

CSE3002 – INTERNET & WEB PROGRAMMING

J COMPONENT PROJECT DOCUMENT

FALL 2019 - 2020

INDIVIDUAL PROJECT
1. 17BCE0765   MITARTH JAIN

UNDER THE GUIDANCE OF
PROF. NAVEEN KUMAR N
SCOPE

School of Computer Science and Engineering

DECLARATION

      I hereby declare that the J Component project entitled **"FOODINE"** submitted by me/us to the School of Computer Science and Engineering, VIT University, Vellore-14 in partial fulfillment of the requirements for the **Internet and Web Programming (CSE3002)** course, is a record of bonafide work carried out by me under the supervision of **Naveen Kumar N, Assistant Professor (Sr).** I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma of this institute or of any other institute or university.

Reg.No: 17BCE0765

Name : MITARTH JAIN

ABSTRACT

Foodine is a platform developed to improve user experience in dining restaurants.It connects the users to the restaurant easily and provides good quality service. This platform will let user first select the restaurant in which he wants to go and then browse the menu and place the order with a lot of ease.

1.) Introduction

1.1) Aim

Our aim is to develop a platform which will help users and restaurants
In improving food services and quality.This will make the process much efficient and even faster.

1.2) Objective

- A platform where customer can register and look for restaurants which uses our platforms and then after user authentication, the user can browse the menu and place order.
- To make it function easily , we have to develop a user friendly frontend so that all the features can be understood by users.
- To build a user friendly and secure payment system and storing all the orders information information to the database.
- This platform will validate each and every detail given by user and show error if there is some invalidation.

2.) System Requirements

- Web Browser - Chrome or FireFox

- Wamp Server or Xampp Sever

- Editors - Notepad or Visual Studio Code

- Angular JS setup

- MySQL

- jQuery and Ajax libraries

- PHP

3.) Solutions for existing problems

3.1) Solution - 1

3.1.1) Problem description and its Solution

There is a very few such kind of platforms for now as the digitization process is rapidly increasing the need of such platform will surely come.This lets users to see the restaurant just by opening the platform and browsing through the list of the restaurants. It will be a unique selling point for the restaurant, the traditional food ordering process will be cut out and this platform helps the restaurant to make their food quality and services better. Faster ordering and record management of the orders is going to help the user as well as restaurant.

3.1.2) Sample Code

```
<!DOCTYPE html>
<html>
   <head>
      <title>Restaurants</title>
      <script type = "text/javascript"
       src = "https://ajax.googleapis.com/ajax/libs/jquery/2.1.3/jquery.min.js">
    </script>
      <link rel = "stylesheet" type = "text/css" href = "css\style2.css" />
      <link href="css/materialize.min.css" type="text/css" rel="stylesheet">
  <link href="css/style.min.css" type="text/css" rel="stylesheet">

      <script type = "text/javascript" language = "javascript">
         $(document).ready(function() {

           $('res1').hover(

              function () {
                 $(this).css({"border":"1px solid black"});
```

```
          },

        function () {
          $(this).css({"border":"0px solid black"});
        }
      );


    });
  </script>



</head>
<body>
  <header id="header" class="page-topbar">


    <div class="navbar-fixed">
      <nav class="navbar-color">
        <div class="nav-wrapper">
          <ul class="left">
            <li><h1><a href="index.php"></a>foodine</h1></li>
          </ul>
        </div>
      </nav>
    </div>


</header>


        <div class="rest">
          <table cellspacing="10">
            <tr>
              <th class="ho" name="resto" onclick="location.href='login.php'"><div class="res1">
                  <img id="im1" src="img/food1.png"><br>
                  <p>Landmark's Kitchen</p>
                </div></th>
          <th class="ho" name="resto"><div class="res1">
              <img id="im1" src="img/food2.png"><br>
              <p>Monroe</p></div></th>
              <th class="ho" name="resto"><div class="res1">
                  <img id="im1" src="img/food3.png"><br>
                  <p>Flo Cafe</p></div></th>
```

```
                    </tr>
                    <tr>
                        <td class="ho" name="resto"><div class="res1">
                            <img id="im1" src="img/food4.png"><br>
                            <p>Maharaja Bhog</p></div></td>
                        <td class="ho" name="resto"><div class="res1">
                            <img id="im1" src="img/food5.png"><br>
                            <p>Folk Tale</p></div></td>
                        <td class="ho" name="resto"><div class="res1">
                            <img id="im1" src="img/food6.png"><br>
                            <p>Foodland</p></div></td>
                    </tr>
                </table>


            </div>
    </body>
</html>
```
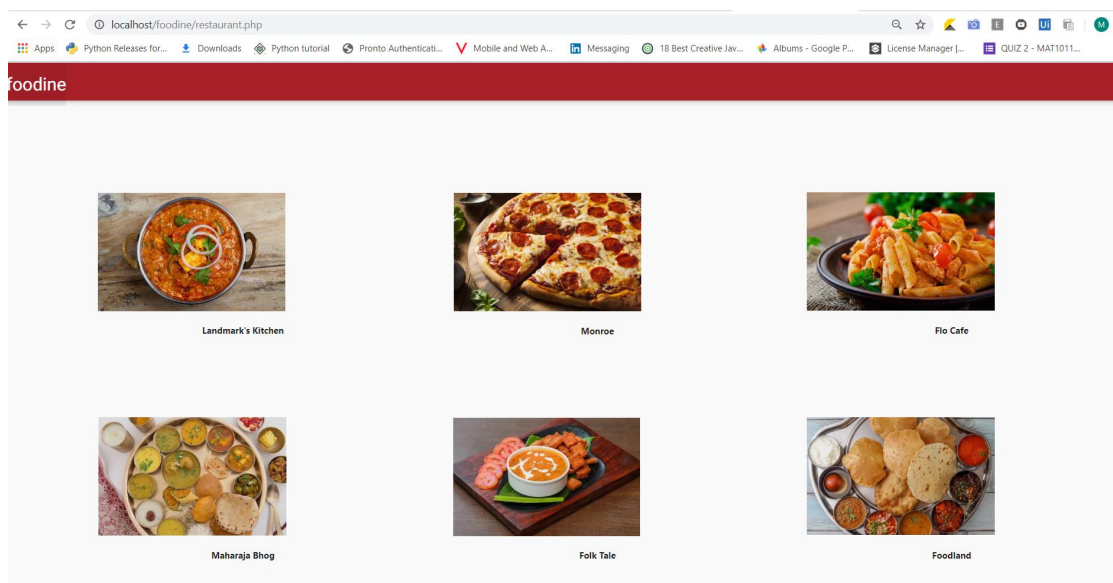
3.1.3) Sample Screenshot

3.2) Solution - 2

3.2.1) Problem description and its Solution

When the user selects the restaurant, it will open the menu of that restaurant in a very responsive and user friendly structured way. The user will able to see the whole menu just by scrolling it, along with the dish names price per item is also listed and in that row user can specify the quantity of that dish required. After selecting the dishes and putting the quantity, user can add a note if there is some customization that need to be made.User can place the order and immediately estimated receipt will be seen in the platform, if a user wants to modify the particular order it can be modified by going back and make the changes.

3.2.2) Sample Code

```html
<div class="container">
    <p class="caption">Order your food here.</p>
    <div class="divider"></div>
            <form class="formValidate" id="formValidate" method="post" action="place-order.php" novalidate="novalidate">
        <div class="row">
         <div>
           <h4 class="header">Order Food</h4>
         </div>
         <div>
            <table id="data-table-customer" class="responsive-table display" cellspacing="0">
             <thead>
              <tr>
                <th>Name</th>
                <th>Item Price/Piece</th>
                <th>Quantity</th>
              </tr>
             </thead>
```

```
<tbody>
<?php
$result = mysqli_query($con, "SELECT * FROM items where not deleted;");

while($row = mysqli_fetch_array($result))
{
echo '<tr><td>'.$row["name"].'</td><td>'.$row["price"].'</td>';
echo '<td><div class="input-field col s12"><label for='.$row["id"].' class="">Quantity</label>';
echo '<input id="'.$row["id"].'" name="'.$row['id'].'" type="text" data-error="'.errorTxt'.$row["id"].'"><div class="errorTxt'.$row["id"].'"></div></td></tr>';
}
?>
</tbody>
</table>
</div>

<div class="input-field">
<textarea id="description" name="description" class="materialize-textarea"></textarea>
<label for="description" class="">Any note(optional)</label>
</div>
```

3.2.3) Sample Screenshot

xi

3.3) Solution - 3

3.3.1) Problem description and its Solution

When user confirms the order and it will ask payment details to place the order. The payment page consist of options with mode of payment as wallet or cash, so a wallet system has been implemented to store the amount in the wallet of that particular user and if the wallet details in our database matches with the user input, the amount of the order will get reduced from the wallet amount and it will get updated in the database simultaneously. It also stores the details about that placed order in the database, which can be seen by restaurant, to start their services.

3.3.2) Sample Code

```
<header id="header" class="page-topbar">
    <div class="navbar-fixed">
        <nav class="navbar-color">
            <div class="nav-wrapper">
                <ul class="left">
                    <li><h1><a href="index.php"></a>foodine</h1></li>
                </ul>
                <ul class="right hide-on-med-and-down">
                    <li><i class="mdi-editor-attach-money"><?php echo $balance;?></i>
                    </li>
                </ul>
            </div>
        </nav>
    </div>

</header>
```

3.3.3) Sample Screenshot


```
foodine                                                                    $ 1250
```

The wallet balance will be displayed in the rightmost part of the header, it will get updated whenever the amount is reduced from wallet.

3.4) Solution - 4

3.4.1) Problem description and its Solution

When a user uses the platform to place the order, there may occur some problem either it can be suggestion, complaint regarding restaurant service, payment issue or any other feedback. The user can issue a ticket for the particular reason and specify the details, the ticket will get open and the platform will display this ticket to both user as well as restaurant.The status of ticket will be displayed on the platform, when the issue is resolved , the ticket status will change to closed and the same will be updated in the database.This way user interaction with the platform will be much easier and user friendly.

3.4.2) Sample Code

```
<div>
     <div class="container">
      <div class="row">
        <div class="col s12 m12 l12">
          <h5>Tickets</h5>
        </div>
      </div>
     </div>
    <div class="container">
      <p class="caption">If you're experiencing any issues, contact us by issuing a ticket.</p>
      <div class="divider"></div>
        <div class="row">
```

```html
<div class="col s12 m4 l3">
  <h4 class="header">Open a ticket</h4>
</div>
<div>
  <div class="card-panel">
    <div class="row">
      <form class="formValidate" id="formValidate" method="post" action="feature/add-ticket.php" novalidate="novalidate" class="col s12">
        <div class="row">
          <div class="input-field col s12">
            <input name="subject" id="subject" type="text" data-error=".errorTxt1">
            <label for="subject" class="">Subject</label>
            <div class="errorTxt1"></div>
          </div>
        </div>
        <div class="row">
          <div class="input-field col s12">
            <textarea name="description" id="description" class="materialize-textarea validate" data-error=".errorTxt2"></textarea>
            <label for="description" class="">Description</label>
            <div class="errorTxt2"></div>
          </div>
        </div>
        <div class="row">
          <div class="input-field col s4">
            <select name="type">
              <option disabled selected>Choose a type</option>
              <option value="Support">Support</option>
              <option value="Payment">Payment</option>
              <option value="Complaint">Complaint</option>
              <option value="Others">Others</option>
            </select>
            <label>Type</label>
          </div>
        </div>
```

```
<div class="row">
  <div class="row">
    <div class="input-field col s12">

      <input type="hidden" value="<?php echo
$user_id;?>" name="id">

      <button class="btn cyan waves-effect waves-light right" type="submit"
name="action">Submit

      <i class="mdi-content-send right"></i>
    </button>
  </div>
</div>
</div>
</form>
</div>
</div>
</div>
<div class="divider"></div>

</div>
```

3.4.3) Sample Screenshot

4.) Recent Technology

4.1) HTML / CSS

4.1.1) Importance of the technology

HTML and CSS are the foundational languages of the web. HTML is a markup language that is used for developing web pages. CSS is a language that defines the presentation of a document written in HTML.The frontend of the platform is developed in HTML/CSS, it provides responsive as well as dynamic functioning.

4.1.2) Sample code

```
<!DOCTYPE html>
<html>
  <head>
    <title>Restaurants</title>
    <script type = "text/javascript"
     src = "https://ajax.googleapis.com/ajax/libs/jquery/2.1.3/jquery.min.js">
   </script>
    <link rel = "stylesheet" type = "text/css" href = "css\style2.css" />
    <link href="css/materialize.min.css" type="text/css" rel="stylesheet">
  <link href="css/style.min.css" type="text/css" rel="stylesheet">

    <script type = "text/javascript" language = "javascript">
      $(document).ready(function() {

       $('res1').hover(
```

```
function () {
    $(this).css({"border":"1px solid black"});
},


function () {
    $(this).css({"border":"0px solid black"});
}
);


});
</script>



</head>
```
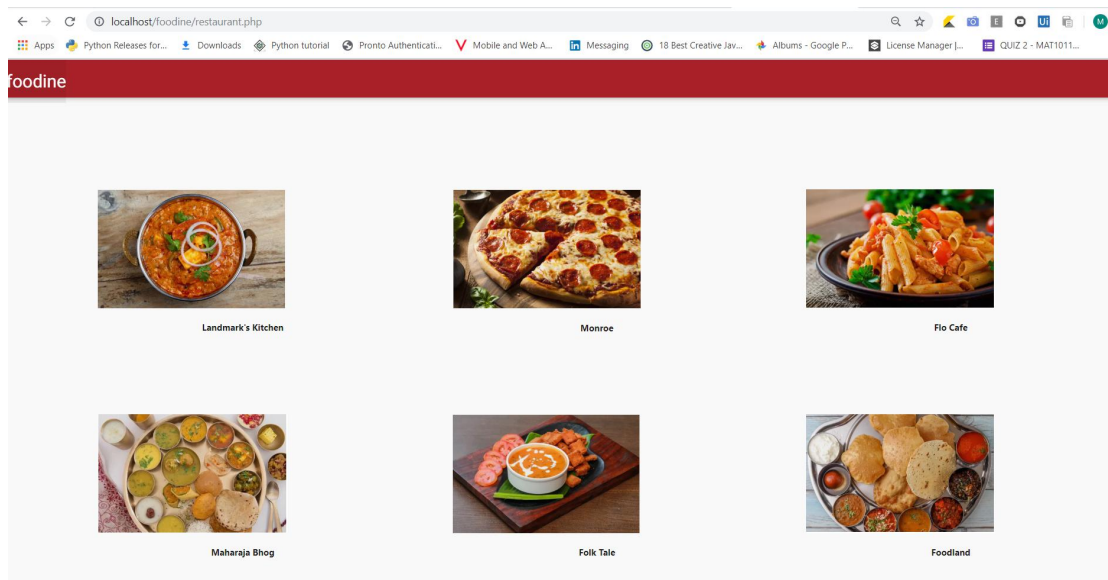
4.1.3) Sample Screenshot

4.2) Javascript

4.2.1) Importance of the technology

It is a scripting language designed to produce dynamic web pages. It is widely used and can be embedded into HTML. A big plus point of using this is that it can be used on most web servers and on almost every operating system.Javascript plays a vital role in all the event handling such as mouse hover, click, validation and also helps in improving the frontend.

4.2.2) Sample code

```
<script type="text/javascript">
  $("#formValidate").validate({
    rules: {
      username: {
        required: true,
        minlength: 5
      },
      name: {
        required: true,
        minlength: 5
      },
                        password: {
                                required: true,
                                minlength: 5
                        },
      phone: {
                                required: true,
                                minlength: 4
                        },
    },
    messages: {
      username: {
        required: "Enter username",
```

```
            minlength: "Minimum 5 characters are required."
         },
      name: {
         required: "Enter name",
         minlength: "Minimum 5 characters are required."
      },
                        password: {
                              required: "Enter password",
                              minlength: "Minimum 5 characters are required."
                        },
      phone:{
                              required: "Specify contact number.",
                              minlength: "Minimum 4 characters are required."
                        },
      },
      errorElement : 'div',
      errorPlacement: function(error, element) {
        var placement = $(element).data('error');
        if (placement) {
          $(placement).append(error)
        } else {
          error.insertAfter(element);
        }
      }
   });
</script>
```

4.2.3) Sample Screenshot

Register

Username

ABCD

Minimum 5 characters are required.

Name

Password

Phone

4.3) jQuery & AJAX

4.3.1) Importance of the technology

The actual purpose of jQuery is to make it much easier to use JavaScript on your website. It makes things like HTML document traversal andmanipulation,event handling, animation, AJAX allows web pages to be updated asynchronously by exchanging data with a web server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page.

In this project jQuery & AJAX is used for validations and formatting the data that is retrieved or being sent to the database.

4.3.2) Sample code

```
<script type = "text/javascript" language = "javascript">
      $(document).ready(function() {

      $('res1').hover(

        function () {
          $(this).css({"border":"1px solid black"});
        },

        function () {
          $(this).css({"border":"0px solid black"});
        }
      );

    });
    </script>
```
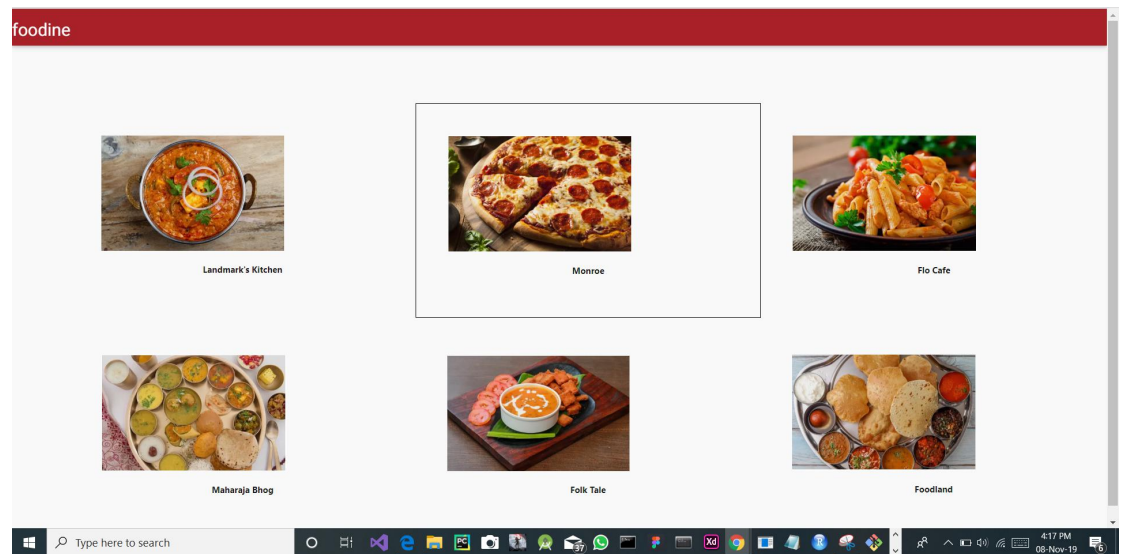
4.3.3) Sample Screenshot

4.4) JSON

4.4.1) Importance of the technology

JSON is Javascript Object Notation uses less data overall, so you reduce the cost and increase the parsing speed. Readable: The JSON structure is straightforward and readable. You have an easier time mapping to domain objects, no matter what programming language you're working with. In this project where we have taken user input, we have applied json validation, it is easy to define the error and the rules for the user input in json structure.

4.4.2) Sample code

```
<script type="text/javascript">
  $("#formValidate").validate({
    rules: {
      username: {
        required: true,
        minlength: 5,
                              maxlength: 10
      },
      name: {
        required: true,
        minlength: 5,
                              maxlength: 15
      },
      email: {
                              required: true,
                              maxlength: 35,
                    },
                    password: {
                              required: true,
                              minlength: 5,
                              maxlength: 16,
                    },
      phone: {
                              required: true,
                              minlength: 4,
                              maxlength: 11
                    },
                    address: {
                              required: true,
                              minlength: 10,
                              maxlength: 300
                    },
    },
    messages: {
      username: {
        required: "Enter username",
        minlength: "Minimum 5 characters are required.",
```

```
          maxlength: "Maximum 10 characters are required."
        },
      name: {
        required: "Enter name",
        minlength: "Minimum 5 characters are required.",
        maxlength: "Maximum 15 characters are required."
      },
      email: {
                    required: "Enter email",
        maxlength: "Maximum 35 characters are required."
                  },
                  password: {
                    required: "Enter password",
                    minlength: "Minimum 5 characters are required.",
        maxlength: "Maximum 16 characters are required."
                  },
      phone:{
                    required: "Specify contact number.",
                    minlength: "Minimum 4 characters are required.",
        maxlength: "Maximum 11 digits are accepted."
                  },
      address:{
                    required: "Specify address",
                    minlength: "Minimum 10 characters are required.",
        maxlength: "Maximum 300 characters are accepted."

                  },
    },
    errorElement : 'div',
    errorPlacement: function(error, element) {
      var placement = $(element).data('error');
      if (placement) {
        $(placement).append(error)
      } else {
        error.insertAfter(element);
      }
    }
  });
</script>
```

4.4.3) Sample Screenshot

DETAILS

Username

user1

Name

Customer 1

Email

mail2@example.com

Password

Enter password

Contact

9898000001

Address

New

Minimum 10 characters are required.

4.5) PHP

4.5.1) Importance of the technology

It is the most popular Server side scripting language for web development. It is free, open source and server-side (the code is executed on the server). PHP uses different built in function to work with mysql. Mysql and PDO both help in PHP to connect to the database you can do any of database queries using these functions. They work together by connecting and querying data from the script you are writing.This project is completely build on PHP as it is easier to perform user actions on the database and also to store it in a structured way.

4.5.2) Sample code

```php
<?php
include '../includes/connect.php';
$name = htmlspecialchars($_POST['name']);
$username = htmlspecialchars($_POST['username']);
$password = htmlspecialchars($_POST['password']);
$phone = $_POST['phone'];

function number($length) {
    $result = '';

    for($i = 0; $i < $length; $i++) {
        $result .= mt_rand(0, 9);
    }

    return $result;
}

$sql = "INSERT INTO users (name, username, password, contact) VALUES ('$name', '$username', '$password', $phone);";
```
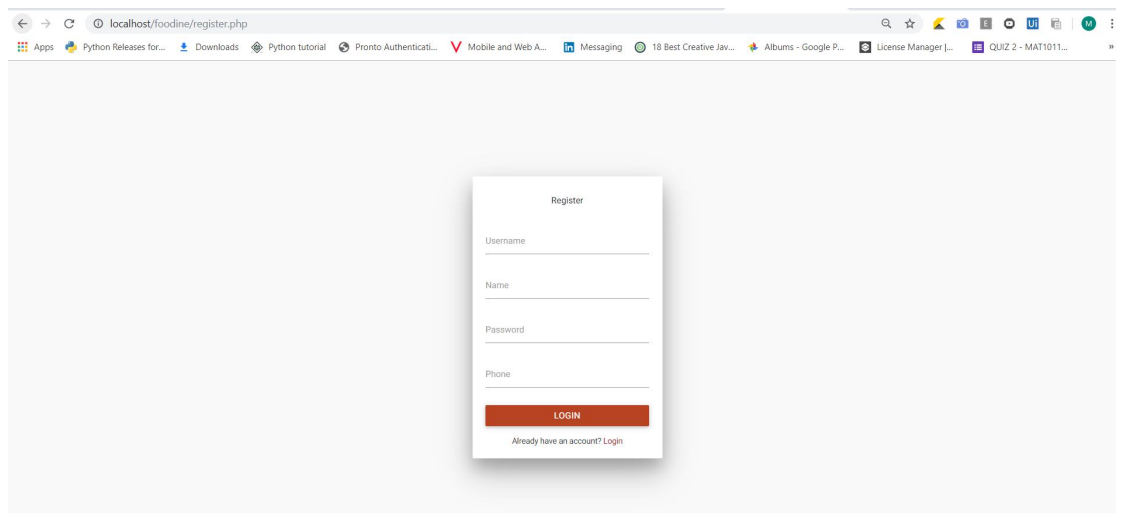
```
if($con->query($sql)==true){
$user_id =  $con->insert_id;
$sql = "INSERT INTO wallet(customer_id) VALUES ($user_id)";


}
header("location: ../login.php");
?>
```

4.5.3) Sample Screenshot

4.6) MYSQL

4.6.1) Importance of the technology

MySQL is developed, distributed, and supported by Oracle Corporation. It is a database system used on the web it runs on a server. It is ideal for both small and large applications. It is very fast, reliable, and easy to use. It supports standard SQL. It can be compiled on a number of platforms. The data in it is stored in tables. A table is a collection of related data, and it consists of columns and rows. Databases are useful when storing information categorically. The data in this project is stored in the database using MySQL queries and methods. It is easily embed inside PHP and it executes very fast in the back end.

4.6.2) Sample code

```
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET time_zone = "+00:00";
CREATE TABLE `items` (
  `id` int(11) NOT NULL,
  `name` varchar(20) NOT NULL,
  `price` int(11) NOT NULL,
  `deleted` tinyint(4) NOT NULL DEFAULT '0'
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

INSERT INTO `items` (`id`, `name`, `price`, `deleted`) VALUES
(1, 'Item 1', 25, 1),
(2, 'Item 2', 45, 0),
(3, 'Item 3', 20, 0),
(4, 'Item 4', 15, 1),
(5, 'Item 5', 20, 0);
```
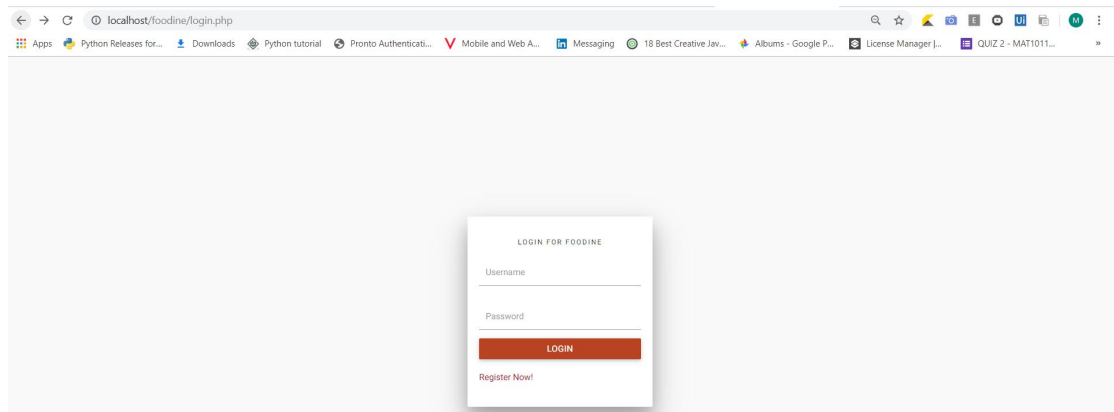
```
CREATE TABLE `orders` (
  `id` int(11) NOT NULL,
  `customer_id` int(11) NOT NULL,
  `address` varchar(300) NOT NULL,
  `description` varchar(300) NOT NULL,
  `date` datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  `payment_type` varchar(16) NOT NULL DEFAULT 'Wallet',
  `total` int(11) NOT NULL,
  `status` varchar(25) NOT NULL DEFAULT 'Yet to be delivered',
  `deleted` tinyint(4) NOT NULL DEFAULT '0'
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

4.6.3) Sample Screenshot

Table ▲	Action						Rows	Type	Collation	Size	Overhead
☐ items	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	5	InnoDB	latin1_swedish_ci	48 KiB	-
☐ orders	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	9	InnoDB	latin1_swedish_ci	48 KiB	-
☐ order_details	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	18	InnoDB	latin1_swedish_ci	64 KiB	-
☐ tickets	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	1	InnoDB	latin1_swedish_ci	32 KiB	-
☐ ticket_details	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	1	InnoDB	latin1_swedish_ci	48 KiB	-
☐ users	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	6	InnoDB	latin1_swedish_ci	48 KiB	-
☐ wallet	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	6	InnoDB	latin1_swedish_ci	48 KiB	-
☐ wallet_details	☆	🔳 Browse	🔧 Structure	🔍 Search	➕ Insert	🗑 Empty	⊝ Drop	6	InnoDB	latin1_swedish_ci	48 KiB	-

5.) Screenshots

Order No. 7
Date: 2019-10-31 21:14:20
Payment Type: Cash On Delivery
Address: Address 2
Status: Cancelled by Customer

#3 Hyderabadi Biryani	2 Pieces	Rs. 40
Total		**Rs. 40**

Order No. 8
Date: 2019-10-31 21:18:05
Payment Type: Wallet
Address: Address 2
Status: Cancelled by Customer

#3 Hyderabadi Biryani	2 Pieces	Rs. 40
Total		**Rs. 40**

Order No. 9
Date: 2019-11-03 10:39:19
Payment Type: Wallet
Address: Address 2
Status: Yet to be delivered

#3 Hyderabadi Biryani	2 Pieces	Rs. 360
#5 Masala Dosa	1 Pieces	Rs. 40
Total		**Rs. 400**

DETAILS

Username

user1

Name

Customer 1

Email

mail2@example.com

Password

Contact

9898000001

Address

New Address 2

---

foodine

Customer 1

Order Food

Orders ⌄

    All Orders

    Cancelled by Customer

    Yet to be delivered

Tickets ›

Edit Details

All Orders

List of your orders with details

LIST

Order No. 9
Date: 2019-11-03 10:39:19
Payment Type: Wallet
Address: Address 2
Status: Yet to be delivered

#3 Hyderabadi Biryani	2 Pieces	Rs. 360
#5 Masala Dosa	1 Pieces	Rs. 40
Total		**Rs. 400**

Items Table

				id	name	price	deleted
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	1	Pizza	100	1
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	2	Shahi Paneer	200	0
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	3	Hyderabadi Biryani	180	0
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	4	Pasta	110	1
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	5	Masala Dosa	40	0

Users Table

☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	2	Customer	Customer 1	user1	pass1	mail2@example.com	New Address 2	9898000001	1	0
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	3	Customer	Customer 2	user2	pass2	mail3@example.com	Address 3	9898000002	1	0
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	4	Customer	Customer 3	user3	pass3			9898000003	0	0
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	5	Customer	Customer 4	user4	pass4			9898000004	0	1
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	6	Customer	Mitarth Jain	sunny	sunny	NULL	NULL	7976673721	0	0

Issued Ticket

Customer 1
Date: 2019-08-30 18:08:51
Role: Customer

Provide more items in the menu

Wallet Details Table

				id	wallet_id	number	cvv	balance
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	1	1	6155247490533921	983	500
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	2	2	1887587142382050	772	1250
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	3	3	4595809639046830	532	1000
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	4	4	5475856443351234	521	2000
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	5	5	9076633115663264	229	2500
☐	🖉 Edit	ʒᵢ Copy	⊖ Delete	6	6	5322261479307031	212	2000

CONCLUSION

With this project we understood the implementation of client and server side interaction, the technologies used are being used in various fields and for multiple developments are already have been made.This platform is beneficial to both restaurant as well as to user.Many real time feature can be added to this project. Those features will provide smooth functioning with better efficiency and results. This project helped us understand how the front end and the back end works simultaneously and how information can be processed throughout a user session. It can be optimized and features like location based feature, recommendation of food or restaurants from previous data, promo codes and reservation or availability can be seen. This will make the user comfortable in the process, the user don't have to ask the people of restaurants for orders or billing or payment, everything can be easily done on the platform. It provides better management to the restaurant, instead of hiring a lot of workers, if they use this platform they can improve their food quality and services and it will be a well attracting selling point for the users.