Testing

Development Testing

Development Testing include all testing activities that are carried out by the team developing system which include: (Unit testing, Component testing, System testing)

Unit Testing:

where individual program units are tested. Unit testing should focus on testing the functionality of methods.

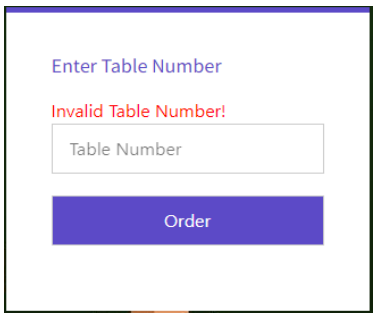
Units to test (for customer):

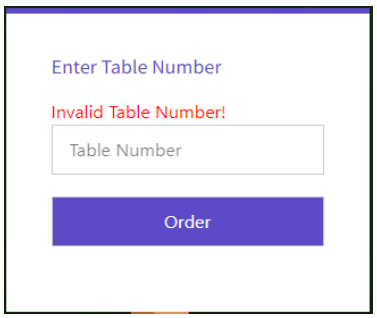
Testing login form submit validation method:

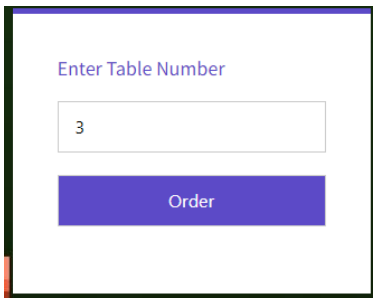
```php
if (isset($_POST['submit'])) {
    $table_id = $_POST['table_id'];

    if (!empty($_POST["submit"])) {
        $loginquery = "SELECT * FROM tables WHERE table_id='$table_id' AND  status = 'Available'"; //selecting matching recc
        $result = mysqli_query($db, $loginquery); //executing
        $row = mysqli_fetch_array($result);

        if (is_array($row)) {
            $_SESSION["table_id"] = $row['table_id'];
            $sql = mysqli_query($db, "update tables set status='Taken' where table_id='$table_id' ;");
            header("refresh:1;url=welcome.php?category_id='$table_id'");
        } else {
            $message = "Invalid Table Number!";
        }
    }
}
?>
```

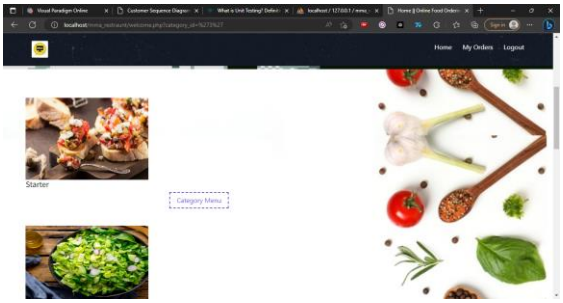
table_id	status
1	Taken
2	Taken
3	Available
4	Available
5	Available
6	Available
7	Available
8	Available
9	Available
10	Available
11	Available
12	Available
13	Available

We have 13 tables and tables 1 and 2 are put as taken.









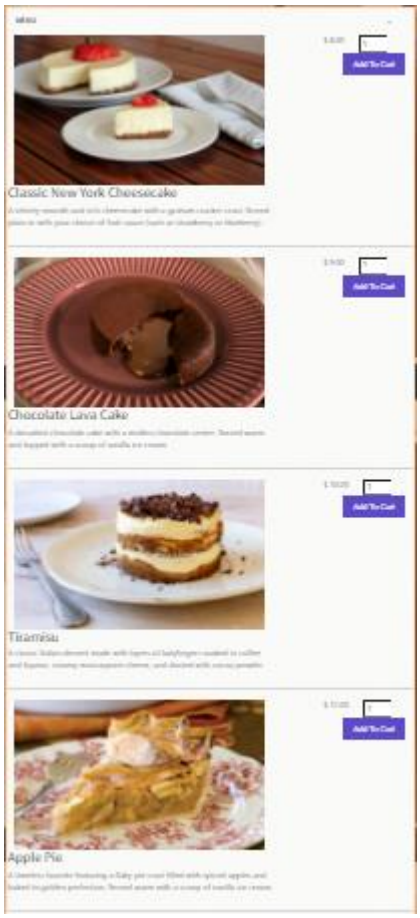
Welcome page (showing categories)

```php
<?php
$query_res = mysqli_query($db, "select * from category");
while ($r = mysqli_fetch_array($query_res)) {
    echo ' <div class="col-md-5" >
                        <div class="figure-wrap bg-image"><img src="admin/Res_img/' . $r['image'] . '" alt="Trulli" width="300" height="200"></div>

                            <div class="content" >
                                <h5 ><a href="dishes.php?category_id=' . $r['category_id'] . '">' . $r['title'] . '</a></h5>
                                <div class="price-btn-block"> <a href="dishes.php?category_id=' . $r['category_id'] . '" class="btn theme-btn-dash pull-right">Category Menu</a> </div>
                            </div>
                    </div>';
    echo '<br><br><br><br><br><br><br><br><br><br><br><br><br><br>';
}
?>
```

category_id	title	image
9	Starter	645a13b2ab225.jpg
11	Salads	645a1d1a57830.jpg
12	Main Dish	645a20bd83aca.jpg
13	Drinks	645a258e8318b.jpg
14	Desserts	645a2c4a1778d.jpg

Menu page (showing dishes)

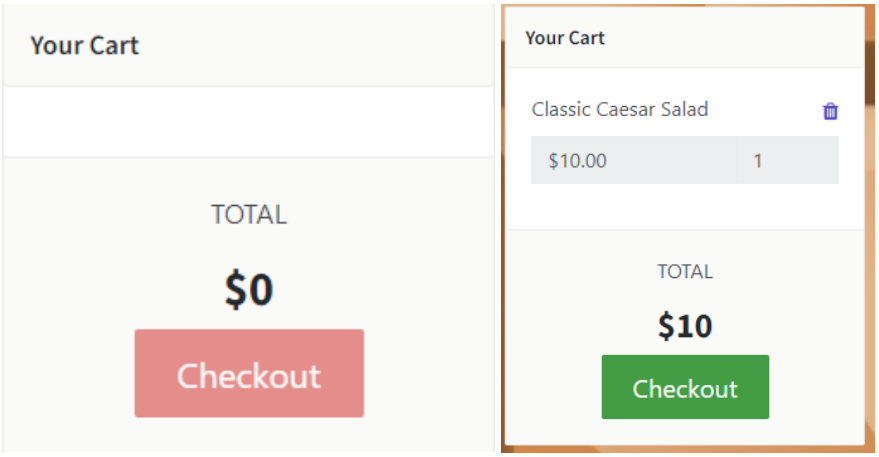
```php
foreach ($products as $product) {
    ?>
    <div class="row">
        <div class="col-xs-12 col-sm-12 col-lg-8">
            <form method="post"
                action='dishes.php?category_id=<?php echo $_GET['category_id']; ?>&action=add&id=<?php echo $product['d_id']; ?>'>
                <div class="rest-logo pull-left">
                    <a>
                          
                        <?php echo '<img src="admin/Res_img/dishes/' . $product['img'] . '" alt="Food logo" width="500" height="300"> '; ?>
                    </a>
                </div>

                <a class="rest-descr">
                    <h3>
                          
                        <?php echo $product['title']; ?>
                    </h3>
                    <p>
                        <?php echo $product['slogan']; ?>
                    </p>
                </a>
        </div>
```



58	14	Classic New York Cheesecake	A velvety smooth and rich cheesecake with a graham...	8.00 645a2da829424.jpg
59	14	Chocolate Lava Cake	A decadent chocolate cake with a molten chocolate ...	9.00 645a2e13410dd.jpg
60	14	Tiramisu	A classic Italian dessert made with layers of lady...	10.00 645a2ea90b0b2.jpg
61	14	Apple Pie	A timeless favorite featuring a flaky pie crust fi...	12.00 645a2ed004dde.jpg

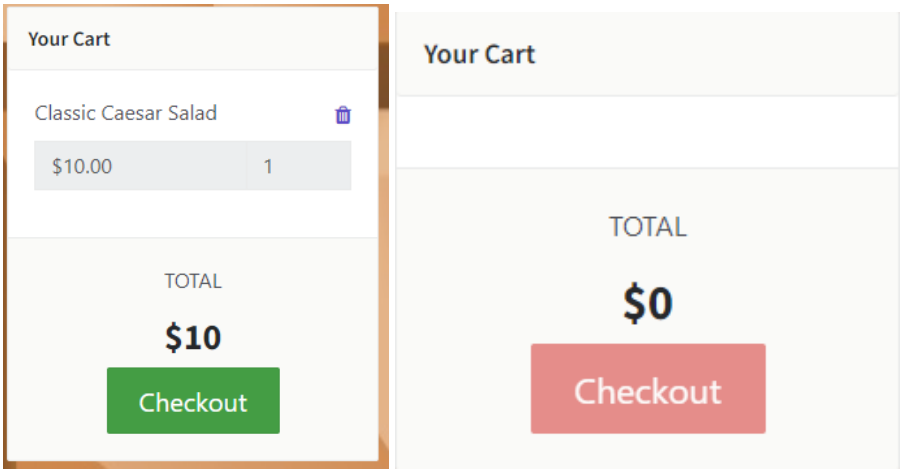
Testing checkout button:

```php
if ($item_total == 0) {
    ?>

    <a href="checkout.php?category_id=<?php echo $_GET['category_id']; ?>&action=check"
        class="btn btn-danger btn-lg disabled">Checkout</a>

    <?php
} else {
    ?>
    <a href="checkout.php?category_id=<?php echo $_GET['category_id']; ?>&action=check"
        class="btn btn-success btn-lg active">Checkout</a>
    <?php
}
```



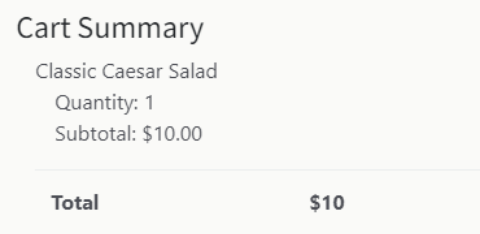
Testing delete button:

```php
<div class="title-row">
    <?php echo $item["title"]; ?><a
        href="dishes.php?category_id=<?php echo $_GET['category_id']; ?>&action=remove&id=<?php echo $item["d_id"]; ?>">
        <i class="fa fa-trash pull-right"></i></a>
</div>
```



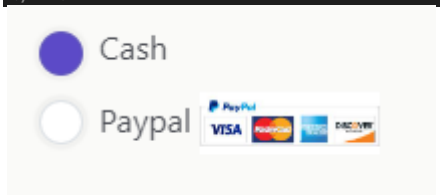
Testing order checkout cart summary

```php
foreach ($_SESSION["cart_item"] as $item) {
    ?>
    <div class="title-row">
        <?php echo $item["title"]; ?><a
            href="dishes.php?category_id=<?php echo $_GET['category_id']; ?>&action=remove&id=<?php echo $item["d_id"]; ?>"></a>
    </div>

    <div class="form-group row no-gutter">
        <div class="col-md-6">
                Quantity: <?php echo $item["quantity"]; ?><br>
               Subtotal: <?php echo "$" . $item["price"]; ?>
        </div>

    </div>
    <?php
}
?>
```



Testing cash/paypal selection

```html
<li>
<label class="custom-control custom-radio  m-b-10">
<input name="mod" id="radioStacked1"  value="Cash" type="radio" checked="checked"
class="custom-control-input"> <span class="custom-control-indicator"></span> <span
class="custom-control-description">Cash</span>
</label>
</li>
<li>
<label class="custom-control custom-radio  m-b-10">
<input name="mod" id="radioStacked1" type="radio" value="Paypal"  class="custom-control-
input"> <span class="custom-control-indicator"></span> <span class="custom-control-
description">Paypal <img src="images/paypal.jpg" alt="" width="90"></span> </label>
</li>
```



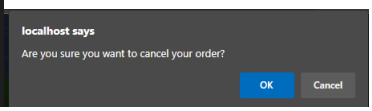
Testing My orders table

```
<table class="table table-bordered table-hover">
    <thead style="background: #404040; color:white;">
        <tr>

            <th>Item</th>
            <th>Quantity</th>
            <th>Price</th>
            <th>Status</th>
            <th>Payment method</th>
            <th>Date</th>
            <th>Action</th>

        </tr>
    </thead>
    <tbody>

        <?php

        $query_res = mysqli_query($db, "select * from users_orders where table_id='" . $_SESSION['table_id'] . "'");
        if (!mysqli_num_rows($query_res) > 0) {
            echo '<td colspan="6"><center>You have No orders Placed yet. </center></td>';
        } else {

            while ($row = mysqli_fetch_array($query_res)) {

                ?>
                <tr>
                    <td data-column="Item">
                        <?php echo $row['title']; ?>
                    </td>
                    <td data-column="Quantity">
                        <?php echo $row['quantity']; ?>
```

Item	Quantity	Price	Status	Payment method	Date	Action
Classic Caesar Salad	1	$ 10.00	On The Way!	Cash	2023-05-12 01:31:55	

Testing delete button

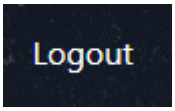
```
<td data-column="Action"> <a
        href="delete_orders.php?order_del=<?php echo $row['o_id']; ?>"
        onclick="return confirm('Are you sure you want to cancel your order?');"
        class="btn btn-danger btn-flat btn-addon btn-xs m-b-10"><i
            class="fa fa-trash-o" style="font-size:16px"></i></a>
</td>
```

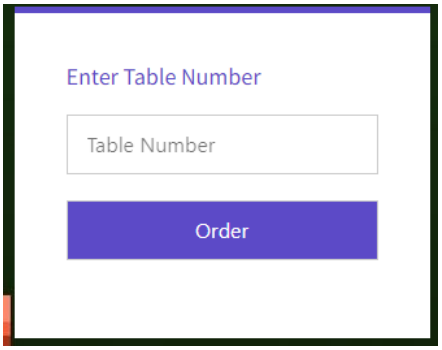


Item	Quantity	Price	Status	Payment method	Date	Action
You have No orders Placed yet.						

Testing logout

```php
<!DOCTYPE html>
<html lang="en">
<?php
include("connection/connect.php");
error_reporting(0);
session_start();
if (empty($_SESSION['table_id'])) {
    header('location:index.php');
} else {
    ?>
    <body>
                    <?php
                    if (empty($_SESSION["table_id"])) {
                        echo '<li class="nav-item"><a href="index.php" class="nav-link active">Login</a> </li>';
                    } else {
                        $query_res = mysqli_query($db, "update tables set status='Available' where table_id='" . $_SESSION['table_id'] . "'");
                    }
                    ?>
    </body>
    </html>
    <?php
}
?>
<?php
session_start();
session_destroy();
$url = 'index.php';
header('Location: ' . $url);

?>
```





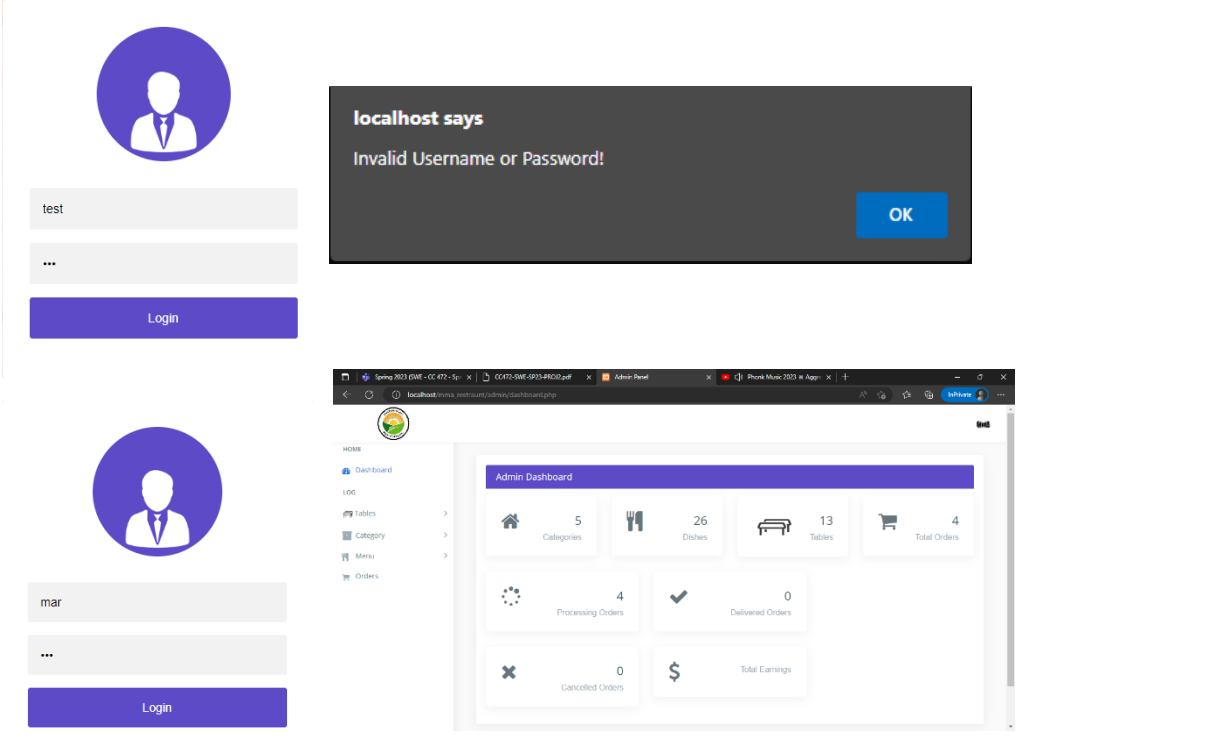
Units to test (for admin):

- Login form submit validation

Login form submit validation

Correct credentials: mar , 123

```php
if (isset($_POST['submit'])) {
    $username = $_POST['username'];
    $password = $_POST['password'];

    if (!empty($_POST["submit"])) {
        $loginquery = "SELECT * FROM admin WHERE username='$username' && password='" . md5($password) . "'";
        $result = mysqli_query($db, $loginquery);
        $row = mysqli_fetch_array($result);

        if (is_array($row)) {
            $_SESSION["adm_id"] = $row['adm_id'];
            header("refresh:1;url=dashboard.php");
        } else {
            echo "<script>alert('Invalid Username or Password!');</script>";
        }
    }

}
```

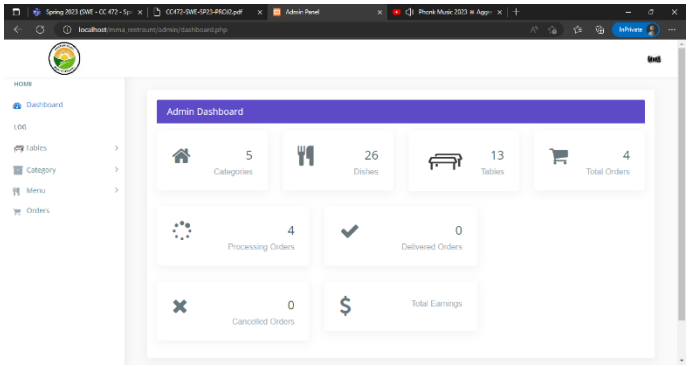


Testing dashboard info

```
$sql="select * from category";
$sql="select * from dishes";
$sql="select * from tables";
$sql="select * from users_orders";
$sql="select * from users_orders WHERE status = 'preparing/eating' ";
$sql="select * from users_orders WHERE status = 'servedandleft' ";
$sql="select * from users_orders WHERE status = 'cancelledandleft' ";
$result = mysqli_query($db, 'SELECT SUM(price) AS value_sum FROM users_orders WHERE status
= "servedandleft"');
```

```
<div class="media-body media-text-right">
    <h2><?php $sql="select * from category";
        $result=mysqli_query($db,$sql);
            $rws=mysqli_num_rows($result);

            echo $rws;?></h2>
    <p class="m-b-0">Categories</p>
</div>
```

... etc for other info.



Testing (all tables/all categories/all menu/all orders) tables

```php
<?php
$sql = "SELECT * FROM category order by category_id";
$query = mysqli_query($db, $sql);

if (!mysqli_num_rows($query) > 0) {
    echo '<td colspan="11"><center>No categories</center></td>';
} else {
    while ($rows = mysqli_fetch_array($query)) {

        $mql = "SELECT * FROM category where category_id='" . $rows['category_id'] . "'";
        $res = mysqli_query($db, $mql);
        $row = mysqli_fetch_array($res);

        echo ' <tr>
                <td>' . $rows['title'] . '</td>
                <td><div class="col-md-3 col-lg-8 m-b-10">
                <center><img src="Res_img/' . $rows['image'] . '" class="img-responsive radius"  style="min-width:150px;min-height:100px;"/></cer
                </div></td>


                <td><a href="delete_category.php?res_del=' . $rows['category_id'] . '" class="btn btn-danger btn-flat btn-addon btn-xs m-b-10"><i
                <a href="update_category.php?res_upd=' . $rows['category_id'] . '" class="btn btn-info btn-flat btn-addon btn-sm m-b-10 m-l-5"><i
                </td></tr>';
    }
}
```

Table Number	Status	Action
1	Taken	
2	Taken	
3	Available	
4	Available	
5	Available	
6	Available	
7	Available	
8	Available	

table_id	status
1	Taken
2	Taken
3	Available
4	Available
5	Available
6	Available
7	Available
8	Available
9	Available
10	Available
11	Available
12	Available
13	Available

```php
<?php
$sql = "SELECT * FROM dishes order by d_id desc";
$query = mysqli_query($db, $sql);

if (!mysqli_num_rows($query) > 0) {
    echo '<td colspan="11"><center>No Menu</center></td>';
} else {
    while ($rows = mysqli_fetch_array($query)) {
        $mql = "select * from category where category_id='" . $rows['category_id'] . "'";
        $newquery = mysqli_query($db, $mql);
        $fetch = mysqli_fetch_array($newquery);


        echo '<tr><td>' . $fetch['title'] . '</td>

                                    <td>' . $rows['title'] . '</td>
                                    <td>' . $rows['slogan'] . '</td>
                                    <td>$' . $rows['price'] . '</td>
                                    <td><div class="col-md-3 col-lg-8 m-b-10">
                                    <center><img src="Res_img/dishes/' . $rows['img'] . '" class="img-responsive  radius" styl
                                    </div></td>


                                        <td><a href="delete_menu.php?menu_del=' . $rows['d_id'] . '" class="btn btn-danger bt
                                        <a href="update_menu.php?menu_upd=' . $rows['d_id'] . '" class="btn btn-info btn-flat
                                    </td></tr>';
```

d_id	category_id	title	slogan	price	img
62	14	Panna Cotta	A buttery shortbread crust filled with a luscious ...	7.00	645a2ef7d1da5.jpg
61	14	Apple Pie	A timeless favorite featuring a flaky pie crust fi...	12.00	645a2ed004dde.jpg
60	14	Tiramisu	A classic Italian dessert made with layers of lady...	10.00	645a2ea90b0b2.jpg
59	14	Chocolate Lava Cake	A decadent chocolate cake with a molten chocolate ...	9.00	645a2e13410dd.jpg
58	14	Classic New York Cheesecake	A velvety smooth and rich cheesecake with a graham...	8.00	645a2da829424.jpg
52	13	Spiced Hot Chocolate	A comforting treat made with rich hot chocolate, i...	5.00	645a25e309e9c.jpg
53	13	Coconut Water Mojito Mocktail	A non-alcoholic twist on the classic mojito, made ...	8.00	645a278ce9152.jpg
54	13	Watermelon Agua Fresca	A light and refreshing Mexican drink made with fre...	7.00	645a283531cb7.jpg
55	13	Hot Toddy	A cozy and soothing drink made with whiskey, hot w...	11.00	645a288d5ea05.jpg
57	13	soft drinks	Refreshment time !!	10.00	645a2b9d613f2.jpg
51	12	BBQ Ribs	Slow-cooked, fall-off-the-bone tender pork ribs sl...	25.00	645a24ab3ee20.jpg
50	12	Thai Green Curry with Chicken	Tender pieces of chicken simmered in a fragrant gr...	25.00	645a247b13068.jpg
49	12	Shrimp Scampi	Plump shrimp sautéed in a garlic and butter sauce,...	20.00	645a24c8677d6.jpg

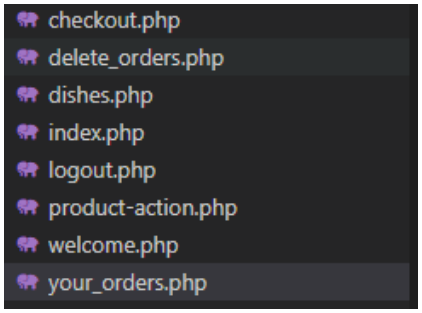
Category Name	Dish	Description	Price	Image	Action
Desserts	Panna Cotta	A buttery shortbread crust filled with a luscious pastry cream and topped with an assortment of fresh seasonal fruits.	$7.00		
Desserts	Apple Pie	A timeless favorite featuring a flaky pie crust filled with spiced apples and baked to golden perfection. Served warm with a scoop of vanilla ice cream.	$12.00		
Desserts	Tiramisu	A classic Italian dessert made with layers of ladyfingers soaked in coffee and liqueur, creamy mascarpone cheese, and dusted with cocoa powder.	$10.00		
Desserts	Chocolate Lava Cake	A decadent chocolate cake with a molten chocolate center. Served warm and topped with a scoop of vanilla ice cream.	$9.00		

Same for other tables, and many other Unit Testing (add/modify table/menu/category/modify orders) but (for file size), lets go for component testing

Component testing

where several individual units are integrated to create composite components. Component testing should focus on testing component interfaces with each others.

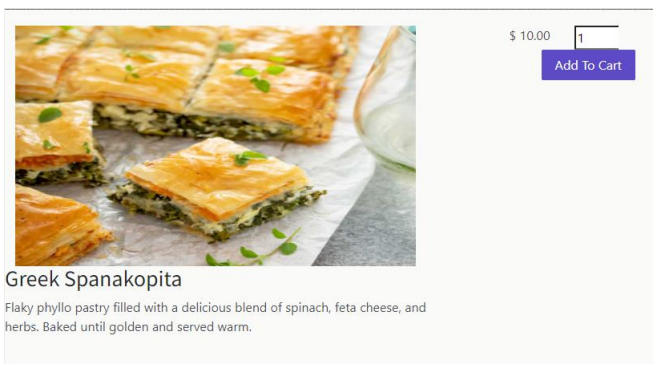
Customer Component testing:



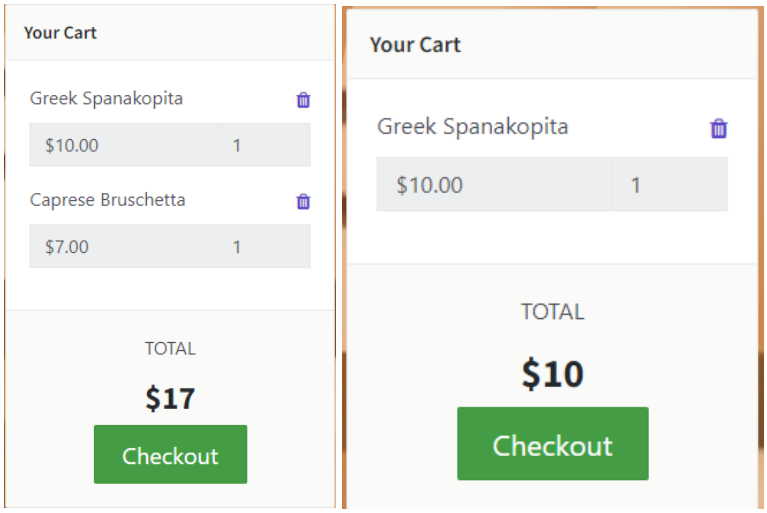
Logging in

Choosing a category

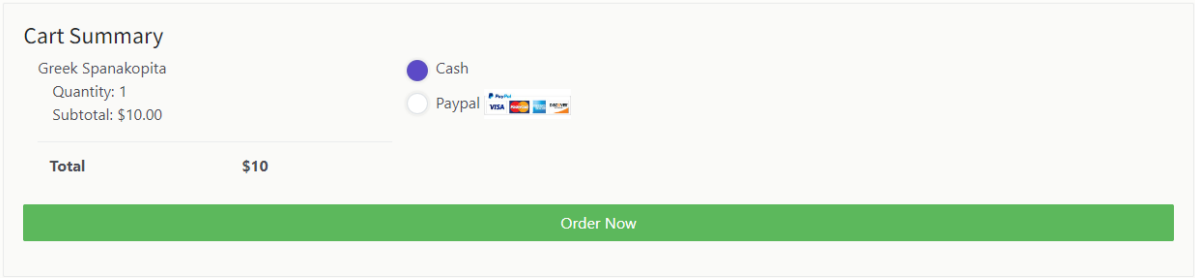
Choosing a dish

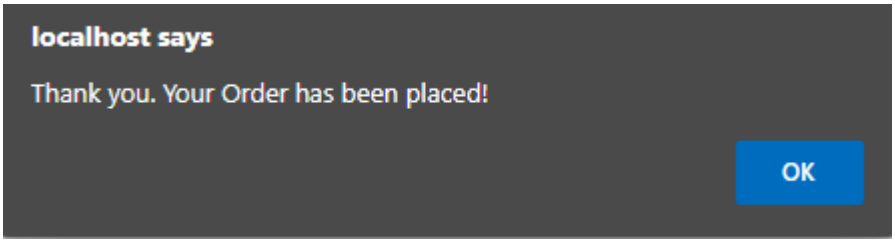


Deleting from cart



Checking out and ordering.





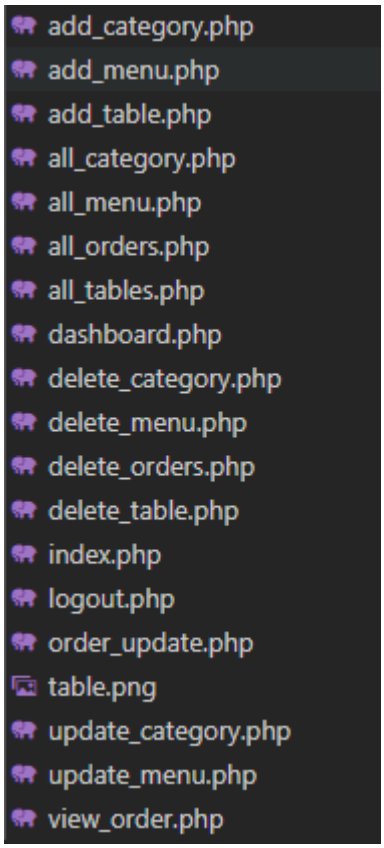
Seeing your orders and deleting them

Item	Quantity	Price	Status	Payment method	Date	Action
Greek Spanakopita	1	$ 10.00	On The Way!	Cash	2023-05-12 02:36:02	

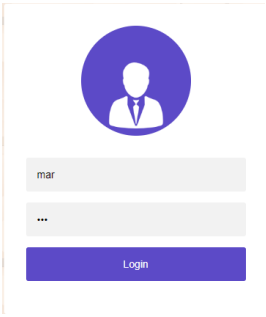
Item	Quantity	Price	Status	Payment method	Date	Action
You have No orders Placed yet.						

Customer Component testing:

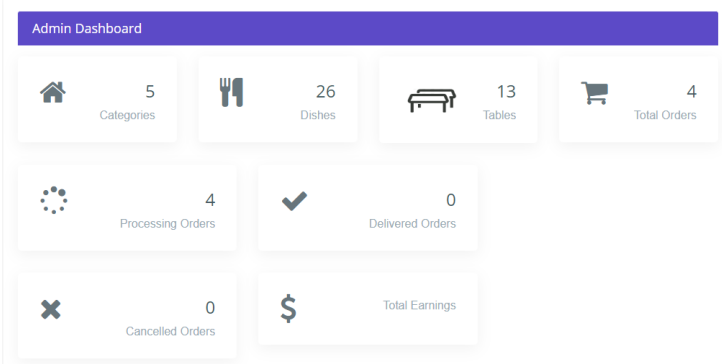
testing component interfaces with each others.



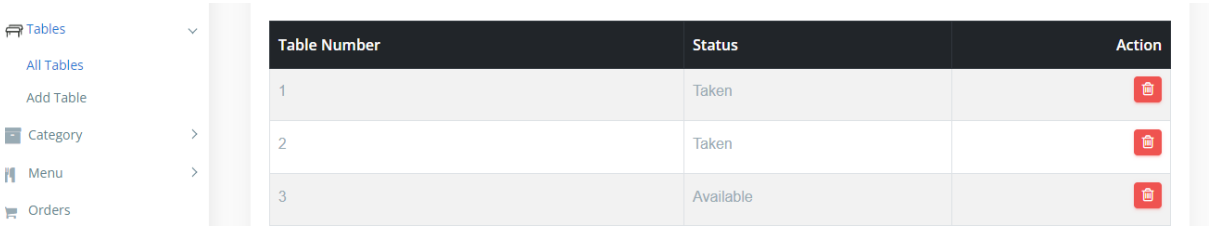
Logging in as administrator



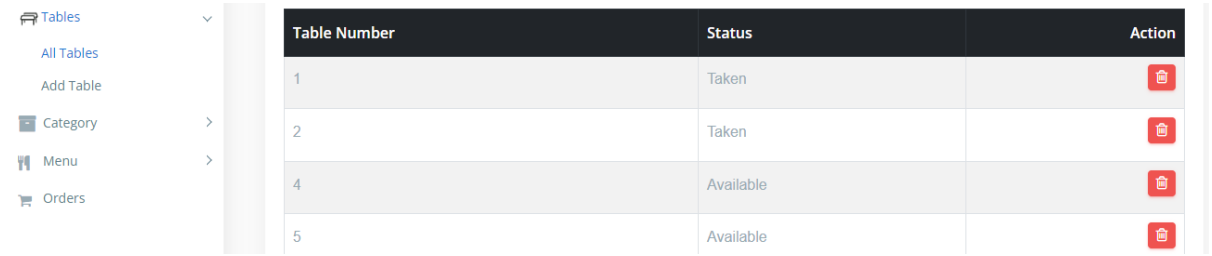
Going into dashboard after logging in and seeing info from database



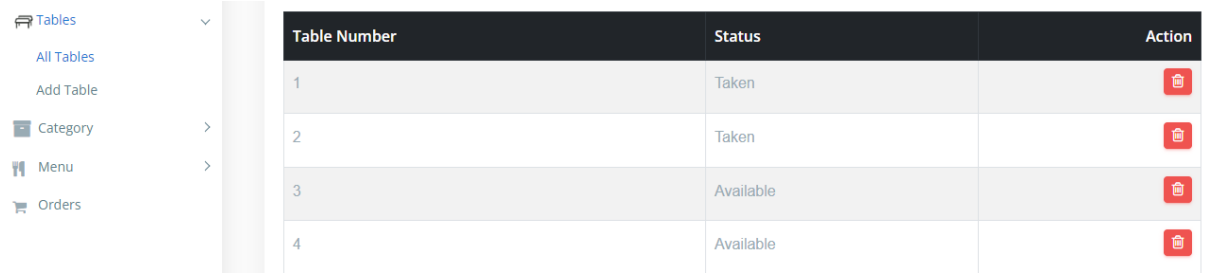
Seeing tables and their status



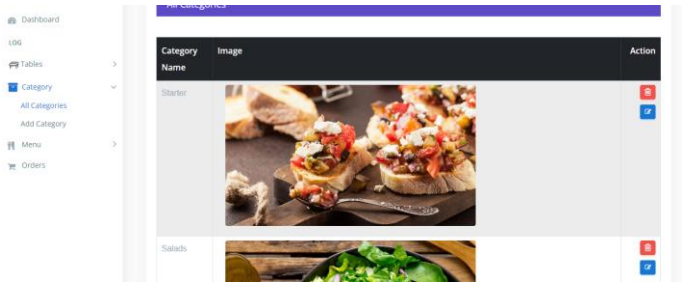
Deleting a table(table 3)



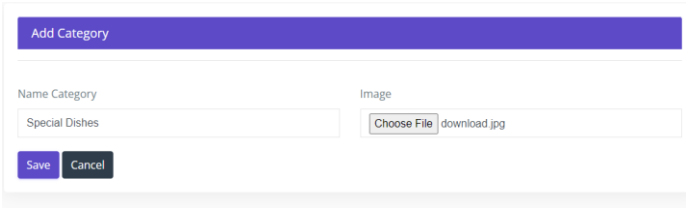
Adding a table



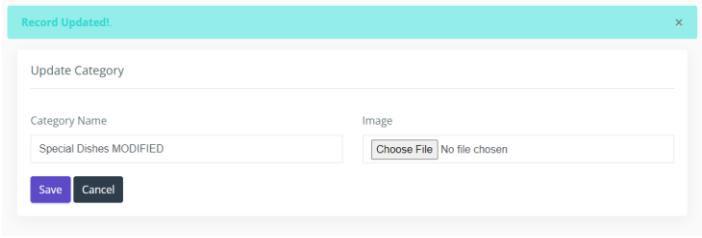
Seeing categories



Adding a category (Special dishes)



Modifying a category



Deleting a category

category_id	title	image
9	Starter	645a13b2ab225.jpg
11	Salads	645a1d1a57830.jpg
12	Main Dish	645a20bd83aca.jpg
13	Drinks	645a258e8318b.jpg
14	Desserts	645a2c4a1778d.jpg

not in database.

Same for menu (will not put screenshots for file size)

System Testing

All of the components in a system are integrated and the system is tested as a whole.

This will be done in a video Submitted in the forms

- ✧ Release testing is a form of system testing.

The difference is that a separate team that has not been involved in the system development, should be responsible for release testing for use outside of the development team.

Therefore, Release testing will be performed by the TA during discussion.