# Web Technologies

#### PROG8186

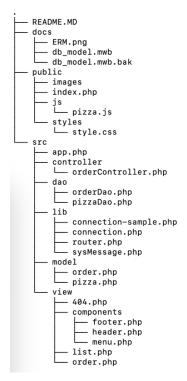
Assignment 3

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I'll start by explaining the structure of the project. At the root of the system, you will find three directories:

- doc: project documentation
- public: public and root files of the project in Apache (images, CSS, JS, etc...)
- **src:** system source code.
  - The solution uses the MVC (Model-View-Controller) design pattern. A directory was created to store each layer of this pattern. Within the View layer, I have made another directory called "components" which aims to store reused code fragments within the View layer.
  - Another pattern adopted was DAO (Data Access Object), so another directory was created for these files.
  - Finally, the lib directory is a directory to store the libraries created to support this development.

Below is the project's directory tree to make it easier to understand the structure.



Below is a presentation of each of the solution's source code files.

# ./public/index.php

```
<?php
   //Just call app.php
   require_once '../src/app.php';
?>
```

# ./src/app.php

This file is responsible for creating the solution's routes and importing the main files for the system to work.

```
<?php
include 'lib/router.php';
include 'lib/connection.php';
include 'lib/sysMessage.php';
include 'model/order.php';
include 'dao/orderDao.php';
include 'model/pizza.php';
include 'dao/pizzaDao.php';
include 'controller/orderController.php';
$app = new Router();
$orderController = new OrderController();
/**
* Routes
// Index, order page
$app->get( '/', function() use ($orderController) {
    $orderController->index();
});
// List orders
$app->get('/list', function() use ($orderController) {
    $orderController->listOrders();
});
```

```
// Create order
$app->post( '/', function() use ($orderController) {
    $orderResult = $orderController->createOrder();
    if($orderResult->getType() == SysMessage::ERROR){
       //Return to index page with error message
       header("Location: http://localhost/?error=".urlencode($orderResult-
>getMessage()));
    } else {
       //Return to index page with success message
       header("Location: http://localhost/?success=".urlencode("Order created
successfully"));
   }
});
// Call the callback of the route
$app->start();
?>
```

#### src/lib/router.php

Another design pattern has been adopted, which in turn handles HTTP requests and directs the application's controllers. Basically, it creates an associative matrix between an HTTP action, a system path and a callback function. The start method basically captures the HTTP method called from the URI to find the callback and execute it.

```
<?php
/**
 * Router class
 * Manage the routes of the application
 *
 * @autor: Rodrigo Bruner
 */

class Router {
    /**
    * Routes
    * @var array
    */
    private $routes = [];</pre>
```

```
* Add a route to the HTTP GET method
    * @param string $path
    * @param callable $callback
    */
    public function get($path, $callback) {
        $this->routes['GET'][$path] = $callback;
    }
    /**
    * Add a route to the HTTP POST method
    * @param string $path
    * @param callable $callback
    */
    public function post($path, $callback) {
        $this->routes['POST'][$path] = $callback;
    /**
    * Resolve the route
    * Call the callback of the route
    * If the calback does not exist, return a 404 error
    * @return mixed
    */
    public function start() {
        $method = $_SERVER['REQUEST_METHOD'];
        $uri = $_SERVER['REQUEST_URI'];
        $path = parse_url($uri, PHP_URL_PATH);
        $callback = $this->routes[$method][$path] ?? false;
        // var_dump($path);
        if ($callback === false) {
            http_response_code(404);
            require __DIR__ . '../views/404.php';
            return;
        }
        echo call_user_func($callback);
    }
}
?>
```

/\*\*

#### src/lib/connection.php

This file connects to the database via a PHP lib called PDO (PHP Data Objects). Another designer partner adopted it, this time Sington.

```
<?php
/**
* Connection class
* Manage the connection to the database
class Connection {
    // Database settings
    private static $host = 'localhost';
    private static $database = 'pizzaria';
    private static $username = 'root';
    private static $password = 'root';
    //Connection
    private static $conn;
    // create or get connection
    public static function getConnection() {
        try {
            if (!isset(self::$conn)) {
                $dsn = 'mysql:host=' . self::$host . ';dbname=' . self::$database;
                self::$conn = new PDO($dsn, self::$username, self::$password);
                self::$conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
            }
            return self::$conn;
        } catch (PDOException $e) {
            die('Caught exception: Database connection failed, please check your
settings or contact the administrator. Error: ' . $e->getMessage());
        }
    }
    // close connection
    public static function closeConnection() {
        if (isset(self::$conn)) {
            self::$conn->close();
        }
    }
```

```
// Prevents the creation of new instances of the class
public function __clone() {}

// Prevents the creation of new instances of the class
public function __wakeup() {}
}
```

# src/lib/sysMessage.php

I created a transport object between the application layers called SysMessage. This time, it's not a design pattern but a way of facilitating communication through a clear contract, centralizing the messaging part of the layers in an object with a clear responsibility, separating responsibilities and facilitating the maintenance of the solution. The designer pattern constructor and Setters and Getters are applied to this object.

```
<?php
class SysMessage {
    const ERROR = 'ERROR';
    const SUCCESS = 'SUCCESS';
    // type of message
    private $type;
    // content of the message
    private $message;
    // data to be sent in the message
    private $extraData;
    // constructor
    public function __construct($type, $message, $extraData = null) {
        $this->type = $type;
        $this->message = $message;
        $this->extraData = $extraData;
    }
    // getters and setters
    public function getType() {
        return $this->type;
    }
    public function getMessage() {
        return $this->message;
    }
```

```
public function getExtraData() {
    return $this->extraData;
}

public function setType($type) {
    $this->type = $type;
}

public function setMessage($message) {
    $this->message = $message;
}

public function setExtraData($extraData) {
    $this->extraData = $extraData;
}
}
```

#### src/controller/orderController.php

As the solution only deals with Orders and not other system modules, I centralized everything in a single Controller to make it easier to present the data.

```
<?php
class OrderController{
    private $pdo; // Database connection
    private $orderDAO; // Order DAO
    private $pizzaDAO; // Pizza DAO
    // Initialize db and DAOs
    public function __construct(){
        $this->pdo = Connection::getConnection();
        $this->orderDAO = new OrderDAO($this->pdo);
        $this->pizzaDA0 = new PizzaDA0($this->pdo);
    }
    //Home page, with form to create an order
    public function index(){
        include '../src/view/order.php';
    }
    public function createOrder(){
        // Get the data from the form
        $firstName = $ POST['firstName'] ?? null;
```

```
$email = $_POST['email'] ?? null;
        $phone = $_POST['phone'] ?? null;
        $street = $_POST['street'] ?? null;
        $number = $ POST['number'] ?? null;
        // Validate the data
        if(!$firstName || !$lastName || !$email || !$phone || !$street || !$number){
            return new SysMessage(SysMessage::ERROR, 'Please fill in all fields');
        }
        // Validate email
        if(!filter_var($email, FILTER_VALIDATE_EMAIL)){
            return new SysMessage(SysMessage::ERROR, 'Invalid email');
        }
        // Validate phone
        if(!is numeric($phone)){
            return new SysMessage(SysMessage::ERROR, 'Invalid phone number');
        }
        // Validate number
        if(!is numeric($number)){
            return new SysMessage(SysMessage::ERROR, 'Invalid number');
        }
        // Create new order
        points = new Order(
            0.
            $firstName,
            $lastName,
            $email,
            $phone,
            $street,
            $number
        );
        try {
            //Create the order and get the order id
            $orderId = $this->orderDAO->create($order);
            // If the order not created, return an error message
            if(!$orderId){
                return new SysMessage(SysMessage::ERROR, 'An error occurred while
creating the order');
            }
            // Add pizzas to the order
            $addPizzasResult = $this->addPizzas($orderId);
            // If the pizzas not created
            if ($addPizzasResult->getType() === SysMessage::ERROR) {
```

\$lastName = \$\_POST['lastName'] ?? null;

```
//delete the order
                $this->orderDAO->delete($orderId);
                //return an error message
                return new SysMessage(SysMessage::ERROR, 'An error occurred while
creating the order', $addPizzasResult->getMessage());
            // Set the order id
            $order->setId($orderId);
            // Set the pizzas
            $order->setPizzas($addPizzasResult->getExtraData());
            // Return a success message
            return new SysMessage(SysMessage::SUCCESS, 'Order '.$orderId.' created
successfully', $order);
        //If some exception occurs
        } catch (Exception $e) {
            // Return an error message
            return new SysMessage(SysMessage::ERROR, 'An error occurred while creating
the order', $e);
        }
    }
    // Add pizzas to the order
    public function addPizzas(int $orderId){
        // Get the number of pizzas
        $numberOfPizzas = $_POST['qtPizzas'] ?? 0;
        // If the number of pizzas = 0 return an error message
        if ($numberOfPizzas < 1) {</pre>
            return new SysMessage(SysMessage::ERROR, 'Please specify the number of
pizzas');
        }
        // for each pizza
        for ($i = 1; $i <= $numberOfPizzas; $i++) {</pre>
            // Get the data from the form
            $size = $_POST["size{$i}"] ?? null;
            $dough = $_POST["dough{$i}"] ?? null;
            $sauce = $ POST["sauce{$i}"] ?? null;
            $cheese = $_POST["cheese{$i}"] ?? [];
            $toppings = $_POST["toppings{$i}"] ?? [];
            // Validate if some data is not set
            if (!$size || !$dough || !$sauce || !$cheese || !$toppings) {
                return new SysMessage(SysMessage::ERROR, 'Please fill in all required
fields for pizza ' . $i);
```

```
return;
            }
            // Create a new pizza and save it in an array
            $pizzas[] = new Pizza(
                $orderId,
                $size,
                $dough,
                $sauce,
                $cheese,
                $toppings
            );
        //If some error occurs return an error and stop the process
       try {
            // For each pizza in the array
            foreach ($pizzas as $pizza) {
                // Save the pizza in the database
                $pizzasId[] = $this->pizzaDAO->create($pizza);
            // Return a success message
            return new SysMessage(SysMessage::SUCCESS, 'Pizzas created successfully',
$pizzas);
        } catch (Exception $e) {
            $this->deletePizzasByOrderID($orderId);
            return new SysMessage(SysMessage::ERROR, 'An error occurred while creating
the pizzas', $e);
    }
    public function listOrders(){
       // Get all orders
        $orders = $this->orderDAO->list();
        // For each order, get the pizzas
        foreach ($orders as $key => $order) {
            // Set the pizzas in the order
            $orders[$key]->setPizzas($this->pizzaDAO->selectByOrderID($order-
>getId()));
        include '../src/view/list.php';
    }
}
?>
```

#### src/model/order.php

```
<?php
class Order{
    private int $id = 0;
    private string $firstName = "";
    private string $lastName = "";
    private string $email = "";
    private string $phone = "";
    private string $street = "";
    private string $number = "";
    private array $pizzas = [];
   // Constructor
    public function __construct(int $id, string $firstName, string $lastName, string
$email, string $phone, string $street, string $number){
        $this->id = $id;
        $this->firstName = $firstName;
        $this->lastName = $lastName;
        $this->email = $email;
        $this->phone = $phone;
        $this->street = $street;
        $this->number = $number;
    }
    //Getters and Setters
    public function getId(): int{
        return $this->id;
    public function getFirstName(): string{
        return $this->firstName;
    }
    public function getLastName(): string{
        return $this->lastName;
    }
    public function getEmail(): string{
        return $this->email;
    }
    public function getPhone(): string{
        return $this->phone;
    }
    public function getStreet(): string{
        return $this->street;
```

```
}
public function getNumber(): string{
    return $this->number;
}
public function getPizzas(): array{
    return $this->pizzas;
}
public function setId(int $id){
    $this->id = $id;
}
public function setFirstName(string $firstName){
    $this->firstName = $firstName;
public function setLastName(string $lastName){
    $this->lastName = $lastName;
}
public function setEmail(string $email){
    $this->email = $email;
}
public function setPhone(string $phone){
    $this->phone = $phone;
}
public function setStreet(string $street){
    $this->street = $street;
}
public function setNumber(string $number){
    $this->number = $number;
}
public function setPizzas(array $pizzas){
    $this->pizzas = $pizzas;
}
public function addPizza(Pizza $pizza){
    $this->pizzas[] = $pizza;
}
```

}

#### src/model/pizza.php

```
<?php
class Pizza{
    private int $orderId = 0;
    private string $size = "Medium";
    private string $doughType = "";
    private string $sauceType = "";
    private $cheesesType = [];
    private $toppingsType = [];
    // Constructor
    public function __construct(
        int $orderId,
        string $size,
        string $doughType,
        string $sauceType,
        array $cheesesType,
        array $toppingsType
    ) {
        $this->orderId = $orderId;
        $this->size = $size;
        $this->doughType = $doughType;
        $this->sauceType = $sauceType;
        $this->cheesesType = $cheesesType;
        $this->toppingsType = $toppingsType;
    }
    //Getters and Setters
    public function getOrderId(): int{
        return $this->orderId;
    }
    public function getSize(): string{
        return (string) $this->size;
    }
    public function getDoughType(): string{
        return $this->doughType;
    public function getSauceType(): string{
        return $this->sauceType;
```

```
public function getCheesesType(): array{
        return $this->cheesesType;
    }
    public function getCheesesTypeAsString(): string {
        return implode(", ", $this->cheesesType);
    }
    public function getToppingsType(): array{
        return $this->toppingsType;
    }
    public function getToppingsTypeAsString(): string {
        return implode(", ", $this->toppingsType);
    }
    public function setOrderId(int $orderId){
        $this->orderId = $orderId;
    }
    public function setSize(string $size){
        $this->size = $size;
    }
    public function setDoughType(string $doughType){
        $this->doughType = $doughType;
    }
    public function setSauceType(string $sauceType){
        $this->sauceType = $sauceType;
    }
    public function setCheesesType(array $cheesesType){
        $this->cheesesType = $cheesesType;
    public function setToppingsType(array $toppingsType){
        $this->toppingsType = $toppingsType;
    }
}
```

#### src/dao/orderDao.php

```
<?php
class OrderDAO {
    // PDO instance
    private $pdo;
    public function __construct($pdo) {
        // Set the connection to the database
        $this->pdo = $pdo;
    }
    public function create(Order $order) {
        try {
            // Create the sql
            $sql = "INSERT INTO orders (first_name, last_name, email, phone, street,
number) VALUES (?, ?, ?, ?, ?, ?)";
            // Prepare the sql
            $stmt = $this->pdo->prepare($sql);
            // Bind the values and execute the sql
            $stmt->execute([
                $order->getFirstName(),
                $order->getLastName(),
                $order->getEmail(),
                $order->getPhone(),
                $order->getStreet(),
                $order->getNumber()
            ]);
            // Return the last inserted id
            return $this->pdo->lastInsertId();
        } catch (Exception $e) {
            throw new Exception("Error create new order", 1);
        }
    }
    public function list(){
        try {
            // Create the sql
            $sql = "SELECT * FROM orders";
            // Prepare the sql
            $stmt = $this->pdo->prepare($sql);
            // Execute the sql
            $stmt->execute();
            $orders = [];
            while ($row = $stmt->fetch()) {
                $orders[] = new Order(
                    $row['id'],
                    $row['first_name'],
```

```
$row['last_name'],
                    $row['email'],
                    $row['phone'],
                    $row['street'],
                    $row['number'],
                );
            }
            return $orders;
        } catch (Exception $e) {
            return $e;
        }
    }
    public function update(Order $order) {
        try {
            // Create the sql
            $sql = "UPDATE orders SET first_name = ?, last_name = ?, email = ?, phone
= ?, street = ?, number = ? WHERE id = ?";
            // Prepare the sql
            $stmt = $this->pdo->prepare($sql);
            // Bind the values and execute the sql
            $stmt->execute([
                $order->getId(),
                $order->getFirstName(),
                $order->getLastName(),
                $order->getEmail(),
                $order->getPhone(),
                $order->getStreet(),
                $order->getNumber(),
            ]);
            return true;
        } catch (Exception $e) {
          return $e;
        }
    public function delete($orderId) {
        try {
            $sql = "DELETE FROM orders WHERE id = ?";
            $stmt = $this->pdo->prepare($sql);
            $stmt->execute([$orderId]);
            return true;
        } catch (Exception $e) {
            return $e;
        }
    }
}
?>
```

#### src/dao/pizzaDao.php

```
<?php
class PizzaDAO {
    // DB Connection
    private $pdo;
    public function __construct($pdo) {
        // Get the connection
        $this->pdo = Connection::getConnection();
    }
    public function create(Pizza $pizza) {
        try{
            // create sql
            $sql = "INSERT INTO pizzas (orders_id, size, dough_type, sauce_type,
cheeses_type, toppings_type) VALUES (?, ?, ?, ?, ?, ?)";
            // prepare sql
            $stmt = $this->pdo->prepare($sql);
            // bind values and execute the sql
            $stmt->execute([
                $pizza->getOrderId(),
                $pizza->getSize(),
                $pizza->getDoughType(),
                $pizza->getSauceType(),
                $pizza->getCheesesTypeAsString(),
                $pizza->getToppingsTypeAsString()
            ]);
            // return the last inserted id
            return $this->pdo->lastInsertId();
        }catch(Exception $e){
            return $e;
        }
    }
    public function deletePizzasByOrderID($orderId) {
        try{
            // create sql
            $sql = "DELETE FROM pizzas WHERE orders_id = ?";
            // prepare sql
            $stmt = $this->pdo->prepare($sql);
            // bind values and execute the sql
            $stmt->execute([$orderId]);
            // return true if success
            return true;
```

```
}catch(Exception $e){
            return $e;
        }
    }
    public function selectByOrderID($orderId) {
        try {
            // create sql
            $sql = "SELECT * FROM pizzas WHERE orders_id = ?";
            // prepare sql
            $stmt = $this->pdo->prepare($sql);
            // bind values and execute the sql
            $stmt->execute([$orderId]);
            // fetch all results
            $rows = $stmt->fetchAll();
            $pizzas = [];
            // foreach pizza, create a new pizza object in array
            foreach ($rows as $row) {
                $pizzas[] = new Pizza(
                    $row['orders_id'],
                    $row['size'],
                    $row['dough_type'],
                    $row['sauce_type'],
                    explode(',', $row['cheeses_type']),
                    explode(',', $row['toppings_type'])
                );
            }
            // return the array of pizzas
            return $pizzas;
        } catch (Exception $e) {
            return $e;
        }
   }
}
?>
```

# src/view/components/header.php

# src/view/components/menu.php

# src/view/components/fooder.php

```
</body>
```

#### src/view/404.php

```
<?php
    require_once 'components/header.php';
    require once 'components/menu.php';
?>
<h1>Page not found</h1>
<?php
require_once 'components/footer.php';
src/view/order.php
<?php
    require_once 'components/header.php';
    require_once 'components/menu.php';
?>
<main>
    <h1>Pizza day!</h1>
    <?php
        if(isset($_GET['error'])){
            echo '<div class="errorMsg">'.$_GET['error'].'</div>';
        }
        if(isset($ GET['success'])){
            echo '<div class="successMsg">'.$_GET['success'].'</div>';
        }
    <!-- I stop sending the form to validate the data -->
    <form submit="/" method="POST" onsubmit=""> <!--
event.preventDefault();validateForm();-->
        <div id="makePizza">
            <div id="pizzas">
                <h3>Enter the number of pizzas you want.</h3>
            </div>
        </div>
        <div class="formGrid">
            <label for="number">Enter the number of pizzas you want</label>
            <!--Every time this value changes, I update the pizza form-->
            <input type="number" name="qtPizzas" id="number"</pre>
onchange="addPizzaFields()">
            <label for="firstName">First name</label>
            <input type="text" name="firstName" id="firstName">
            <label for="lastName">Last name</label>
```

```
<input type="text" name="lastName" id="lastName">
            <label for="email">E-mail</label>
            <input type="text" name="email" id="email">
            <label for="phone">Phone number</label>
            <input type="text" name="phone" id="phone">
            <label for="street">Street</label>
            <input type="text" name="street" id="street">
            <label for="stNumber">Number</label>
            <input type="text" name="number" id="stNumber">
            <button type="submit">Place order
       </div>
    </form>
</main>
<script>
    addPizzaFields();
</script>
<?php
    require_once 'components/footer.php';
?>
```

# src/view/list.php

```
<?php
require_once 'components/header.php';
require_once 'components/menu.php';
?>
<main>
  <h1>0rders</h1>
  <thead>
        Order ID
           First name
           Last name
           E-mail
           Phone
           Street
           Number
           Qt pizzas
```

```
Show detatil
        </thead>
     <?php foreach($orders as $order){ ?>
           <?php echo $order->getId() ?>
              <?php echo $order->getFirstName() ?>
              <?php echo $order->getLastName() ?>
              <?php echo $order->getEmail() ?>
              <?php echo $order->getPhone() ?>
              <?php echo $order->getStreet() ?>
              <?php echo $order->getNumber() ?>
              <?php echo count($order->getPizzas()) ?>
              <button onclick="toggleVisibility('order<?php echo $order-</pre>
>getId() ?>', this)">
                    <i class="fa fa-eye"></i> Show Details
                 </button>
              getId() ?>' style="display: none;"">
              <thead>
                       Size
                          Dough
                          Souce
                          Cheeses
                          Toppings
                       </thead>
                    <?php foreach($order->getPizzas() as $pizza){ ?>
                          <?php echo $pizza->getSize() ?>
                             <?php echo $pizza->qetDoughType() ?>
                             <?php echo $pizza->getSauceType() ?>
                             <ppp echo $pizza-
>getCheesesTypeAsString() ?>
                             <ppp echo $pizza-
>getToppingsTypeAsString() ?>
                          <?php } ?>
```

```
<?php } ?>
        </main>
<?php
require_once 'components/footer.php';
public/js/pizza.js
function addPizzaFields() {
    /* Define the options for each field */
    const sizes = ['Small', 'Medium', 'Large', 'X-Large'];
    const doughTypes = [
        'whole grain crust',
        'whole grain thin crust',
        'whole grain thick crust',
        'regular',
        'regular thin crust',
        'regular thick crust'];
    const sauceTypes = [
        'home-style Italian tomato',
        'buffalo blue cheese',
        'creamy garlic',
        'chipotle',
        'pesto',
        'spicy',
        'sweet chilli Thai',
        'tandoori',
        'Texas',
        'no sauce'];
    const cheeseTypes = [
        'mozzarella',
        'dairy-free',
        'four cheese blend'];
    const toppingsTypes = [
        'anchovies',
        'artichokes',
        'bacon strips',
        'broccoli',
```

```
'bruschetta',
    'buffalo chicken',
    'caramelized onions',
    'cilantro',
    'chipotle chicken',
    'chipotle steak',
    'chorizo sausage',
    'fire-roasted red peppers',
    'green olives',
    'green peppers',
    'grilled chicken',
    'grilled zucchini',
    'ground beef',
    'hot banana peppers',
    'Italian ham',
    'jalapeno peppers',
    'kalamata olives',
    'mushrooms',
    'New York style pepperoni',
    'pepperoni',
    'pineapple',
    'plant-based chorizo crumble',
    'plant-based pepperoni',
    'red onions',
    'roasted garlic',
    'Roma tomatoes',
    'salami',
    'spicy Italian sausage',
    'steak strips',
    'spinach',
    'sun-dried tomatoes'
];
// Preparing the div to receive the fields
const pizzasDiv = document.getElementById('pizzas');
pizzasDiv.innerHTML = '';
// Taking the number of pizzas and converting to integer
var numberOfPizzas = (document.getElementById('number').value*1);
if(numberOfPizzas < 1) {</pre>
    numberOfPizzas = 1;
    document.getElementById('number').value = 1;
}
// check if the number of pizzas is greater than 10
if(numberOfPizzas > 10) {
    alert('For orders of more than 10 pizzas, please call (222) 222-2222.');
```

```
numberOfPizzas = 10;
   document.getElementById('number').value = 10;
}
// If the number of pizzas is less than 1, a message is displayed
if (numberOfPizzas < 1) {</pre>
   pizzasDiv.innerHTML = '<h3>Enter the number of pizzas you want.<h3>';
// For each pizza, the fields are created
for (let i = 1; i < numberOfPizzas+1; i++) {</pre>
    console.log('Creating pizza fields for pizza number', i);
   // For each pizza, a div is created that will receive the fields
    const pizzaContainer = document.createElement('div');
    pizzaContainer.className = 'pizzaContainer';
   // Creating a element h3 to show the title of the pizza
    const title = document.createElement('h3');
    // adding the title to the pizza
   title.textContent = `Pizza ${i}`;
   // adding the title to the pizza container
    pizzaContainer.appendChild(title);
   // Creating the label for size and a select field
    const sizeLabel = document.createElement('label');
    sizeLabel.textContent = '* Size for Pizza';
    pizzaContainer.appendChild(sizeLabel);
   // Creating the selecte field
    const sizeSelect = document.createElement('select');
    sizeSelect.name = `size${i}`;
   // for each size, in array sizes, a option is created
    sizes.forEach(size => {
        // create the element
        const option = document.createElement('option');
        // set attributes
        option.value = size;
        option.textContent = size;
        if (size === 'large') { //set default value
            option.selected = true;
        }
        // adding the option to the select field
        sizeSelect.appendChild(option);
```

```
}):
pizzaContainer.appendChild(sizeSelect);
//Creating the label for dough and the options
const doughLabel = document.createElement('label');
doughLabel.textContent = '* Dough type for Pizza';
pizzaContainer.appendChild(doughLabel);
// to apply css I created a div to receive the radio buttons
const doughContainer = document.createElement('div');
doughContainer.className = 'doughContainer';
// foreach dough type, in array doughTypes, add a option
doughTypes.forEach(dough => {
    // create a label
    const doughOptionLabel = document.createElement('label');
    //set the text
    doughOptionLabel.textContent = dough;
    //add the label to the div
    doughContainer.appendChild(doughOptionLabel);
    // create a element
    const doughOptionInput = document.createElement('input');
    // set the attributes
    doughOptionInput.type = 'radio';
    doughOptionInput.name = `dough${i}`;
    doughOptionInput.value = dough;
    // add the input to the label
    doughOptionLabel.appendChild(doughOptionInput);
});
pizzaContainer.appendChild(doughContainer);
// The sauce follows the same logic as the dough
const sauceLabel = document.createElement('label');
sauceLabel.textContent = '* Sauce for Pizza';
pizzaContainer.appendChild(sauceLabel);
const sauceContainer = document.createElement('div');
sauceContainer.className = 'sauceContainer';
sauceTypes.forEach(sauce => {
    const sauceOptionLabel = document.createElement('label');
    sauceOptionLabel.textContent = sauce;
    sauceContainer.appendChild(sauceOptionLabel);
    const sauceOptionInput = document.createElement('input');
    sauceOptionInput.type = 'radio';
    sauceOptionInput.name = `sauce${i}`;
    sauceOptionInput.value = sauce;
```

```
});
        pizzaContainer.appendChild(sauceContainer);
       // Exactly the same logic as the sauce and dough but with checkboxes
        const cheeseLabel = document.createElement('label');
        cheeseLabel.textContent = 'Base cheese for Pizz';
        pizzaContainer.appendChild(cheeseLabel);
        const cheeseContainer = document.createElement('div');
        cheeseContainer.className = 'cheeseContainer';
        cheeseTypes.forEach(cheese => {
            const cheeseOptionLabel = document.createElement('label');
            cheeseOptionLabel.textContent = cheese;
            cheeseContainer.appendChild(cheeseOptionLabel);
            const cheeseOptionInput = document.createElement('input');
            cheeseOptionInput.type = 'checkbox';
            cheeseOptionInput.name = `cheese${i}[]`;
            cheeseOptionInput.value = cheese;
            cheeseOptionLabel.appendChild(cheeseOptionInput);
       });
        pizzaContainer.appendChild(cheeseContainer);
       // Same logic as the cheese
        const toppingsLabel = document.createElement('label');
        toppingsLabel.textContent = '* Toppings for Pizza';
        pizzaContainer.appendChild(toppingsLabel);
        const toppingsContainer = document.createElement('div');
        toppingsContainer.className = 'toppingsContainer';
        toppingsTypes.forEach(topping => {
            const toppingOptionLabel = document.createElement('label');
            toppingOptionLabel.textContent = topping;
            toppingsContainer.appendChild(toppingOptionLabel);
            const toppingOptionInput = document.createElement('input');
            toppingOptionInput.type = 'checkbox';
            toppingOptionInput.value = topping;
            toppingOptionInput.name = `toppings${i}[]`;
            toppingOptionLabel.appendChild(toppingOptionInput);
        pizzaContainer.appendChild(toppingsContainer);
       pizzasDiv.appendChild(pizzaContainer);
    }
}
```

sauceOptionLabel.appendChild(sauceOptionInput);

```
function validateForm() {
   errorMessages = "";
   // Check if the number of pizzas is filled out
   const numberOfPizzas = document.getElementById('number').value;
   if (!numberOfPizzas || isNaN(numberOfPizzas)) {
       errorMessages += 'Please fill out the number of pizzas field.';
   }
   if (numberOfPizzas > 10) {
       errorMessages += 'For orders of more than 10 pizzas, please call (222)
222-2222.;
   }
   const firstName = document.getElementById('firstName').value;
    if (firstName.length < 2) {</pre>
       errorMessages += 'First name must be at least 2 characters long.

   }
    const lastName = document.getElementById('lastName').value;
    if (lastName.length < 2) {</pre>
       errorMessages += 'Last name must be at least 2 characters long.';
   }
   const email = document.getElementById('email').value;
    const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    if (!emailPattern.test(email)) {
       errorMessages += 'Please enter a valid email address.';
   }
    const phone = document.getElementById('phone').value;
    const phonePattern = /^\d{3}-\d{4}$/;
    if (!phonePattern.test(phone)) {
       errorMessages += 'Please enter a valid phone number.';
   }
    const street = document.getElementById('street').value;
    if (street.length < 2) {</pre>
       errorMessages += 'Street must be at least 2 characters long.
   }
    const stNumber = document.getElementById('stNumber').value;
    if (isNaN(stNumber) || stNumber < 1 || stNumber === "") {</pre>
       errorMessages += 'Number must be a number.';
   }
```

```
console.log(stNumber);
          for (let i = 0; i < numberOfPizzas; i++) {</pre>
                   const size = document.querySelector(`select[name="size${i + 1}"]`).value;
                   const dough = document.querySelector(`input[name="dough${i + 1}"]:checked`);
                   const sauce = document.querySelector(`input[name="sauce${i + 1}"]:checked`);
                   const toppings = document.querySelectorAll(`input[name="toppings${i +
1}"]:checked`);
                   if (!size || !dough || !sauce || toppings.length === 0) {
                             errorMessages += `Please fill out all fields for Pizza ${i +
1}.`;
                  }
         }
          const messageDiv = document.getElementById('messages');
          if(errorMessages) {
                   messageDiv.classList.add('errorMsg');
                   messageDiv.innerHTML = '<h4>Error(s)</h4>' + errorMessages + '';
                   return false;
         } else {
                   messageDiv.classList.add('successMsg');
                   messageDiv.innerHTML = '<img src="https://external-</pre>
content.duckduckgo.com/iu/?u=https%3A%2F%2Fvectorified.com%2Fimages%2Fdelivery-icon-
1. png\&f = 1\&nofb = 1\&ipt = 0b8b146fc9e0d44d2ecbee5dd2ef09840d9201c3ad97ecf97801a396c206597b\&fill the property of the proper
ipo=images"><h4>Your order was successful! Thank you very much.</h4>';
                   return true;
         }
          return true;
}
function toggleVisibility(id, element) {
         var row = document.getElementById(id);
         if (row.style.display === "none") {
                   row.style.display = "table-row";
                   element.innerHTML = '<i class="fa fa-eye-slash"></i> Hide Details';
         } else {
                   row.style.display = "none";
                   element.innerHTML = '<i class="fa fa-eye"></i> Show Details';
         }
}
```

# public/css/style.css

```
:root{
    --default-bg-color: #FFFFFF;
   --primary-font-color: #00000;
    --primary-color :#B61600;
    --secondary-color:#FBAD89;
    --tertiary-color:#FFAC0E;
    --page-max-width: 1024px;
}
body{
    padding-left: 1vw;
    padding-right: 1vw;
    padding-top: 0px;
   margin: 0;
    background: var(--default-bg-color);
}
h1{
    color: var(--primary-color);
}
hr{
    border-color: var(--tertiary-color);
    margin: 20px;
}
#makePizza{
   width: 75%;
    float:left
}
label {
    margin-top: 15px;
    padding: 10px;
    color: var(--primary-color);
    display: block;
    font-weight: bold;
}
input[type=number]{
   width: 100px;
    padding: 10px;
```

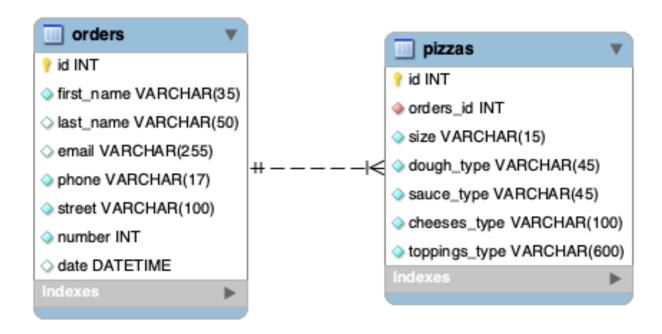
```
border: 1px solid var(--primary-color);
    border-radius: 4px;
    box-sizing: border-box;
    resize: vertical;
}
input[type=text]{
   width: 100%;
    padding: 10px;
    border: 1px solid var(--primary-color);
    border-radius: 4px;
    box-sizing: border-box;
    resize: vertical;
}
button {
   width: 100%;
    padding: 10px;
    border-radius: 5px;
    font: inherit;
    margin-top: 20px;
    font-weight: bold;
    outline: 2px solid var(--primary-color);
    background-color: var(--tertiary-color);
    font-weight: bold;
    color: var(--primary-color);
}
button:hover {
    outline: 2px solid var(--primary-color);
    background-color: var(--secondary-color);
    font-weight: bold;
}
.formGrid {
    margin-left: 20px;
   width: 20%;
    float:left
}
.pizzaContainer{
    margin: 15px;
    padding: 15px;
    border-style: solid;
    border-radius: 5px;
    border-color: var(--tertiary-color);
}
```

```
.doughContainer label,
.sauceContainer label,
.cheeseContainer label,
.toppingsContainer label{
    display: inline;
    margin-left: 10px;
    font-weight: normal;
}
main{
    margin-top: 5px;
   width: 80vw;
    padding: 20px;
    border-radius: 5px;
}
.errorMsg{
    border-color: red;
    background-color: lightpink;
    color: red;
    padding: 10px;
    margin: 15px;
    border-radius: 5px;
}
.successMsg{
    border-color: green;
    background-color: lightgreen;
    color: green;
    padding: 10px;
    margin: 15px;
    border-radius: 5px;
}
.successMsg img{
   width: 50px;
    float: left;
}
/* Style the navigation bar */
nav {
    width: 100%;
    background-color: var(--primary-color);
    overflow: auto;
}
/* Navbar links */
nav a {
```

```
float: left;
    text-align: center;
    padding: 12px;
    color: white;
    text-decoration: none;
   font-size: 17px;
}
/* Navbar links on mouse-over */
nav a:hover {
    background-color: var(--secondary-color)
}
/* Current/active navbar link */
.active {
   background-color: var(--tertiary-color);
}
table {
   width: 100%;
   border-collapse: collapse;
}
table, th, td {
   border: 1px solid black;
}
```

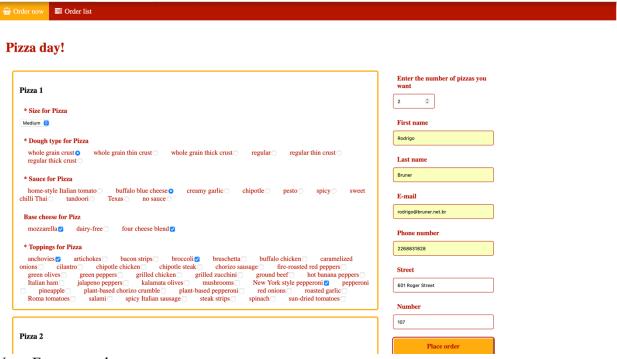
# **Database**

```
-- Schema pizzaria
CREATE SCHEMA IF NOT EXISTS 'pizzaria' DEFAULT CHARACTER SET utf8;
USE `pizzaria` ;
-- Table `pizzaria`.`orders`
CREATE TABLE IF NOT EXISTS `pizzaria`.`orders` (
 `id` INT NOT NULL AUTO_INCREMENT,
 `first_name` VARCHAR(35) NOT NULL,
 `last_name` VARCHAR(50) NULL,
 `email` VARCHAR(255) NULL,
  `phone` VARCHAR(17) NOT NULL,
 `street` VARCHAR(100) NOT NULL,
 `number` INT NOT NULL,
 `date` DATETIME NULL DEFAULT NOW(),
 PRIMARY KEY (`id`))
ENGINE = InnoDB;
-- Table `pizzaria`.`pizzas`
CREATE TABLE IF NOT EXISTS `pizzaria`.`pizzas` (
 `id` INT NOT NULL AUTO_INCREMENT,
 `orders id` INT NOT NULL,
 `size` VARCHAR(15) NOT NULL,
 `dough_type` VARCHAR(45) NOT NULL,
 `sauce_type` VARCHAR(45) NOT NULL,
  `cheeses_type` VARCHAR(100) NOT NULL,
 `toppings_type` VARCHAR(600) NOT NULL,
 PRIMARY KEY ('id'),
 INDEX `fk_pizzas_orders_idx` (`orders_id` ASC) VISIBLE,
 CONSTRAINT `fk_pizzas_orders`
    FOREIGN KEY (`orders id`)
   REFERENCES `pizzaria`.`orders` (`id`)
   ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
```



# Screenshots

Bellow some screenshots



Note. Form to order



Phone number

Number

Note. Order saved

Base cheese for Pizz

\* Toppings for Pizza

mozzarella dairy-free four cheese blend



#### **Orders**

Order ID	First name	Last name	E-mail	Phone	Street	Number	Qt pizzas	Show detatil
1	Rodrigo	Bruner	rodrigo@bruner.net.br	2268831828	601 Roger Street	107	2	
								Show Details
2	Benjamin	Bruner	ben@icloud.com	2268831828	University St	107	1	
								Show Details

home-style Italian tomato buffalo blue cheese creamy garlic chipotle pesto spicy sweet chilli Thai tandoori Texas no sauce

anchovies artichokes bacon strips broccoli bruschetta buffalo chicken caramelized onions cilantro chipotle chicken chipotle steak chorizo sausage fire-roasted red peppers green olives green peppers grilled chicken grilled zucchini ground beef hot banana peppers Italian ham jalapeno peppers kalamata olives mushrooms New York style pepperoni pepperoni pineapple plant-based chorizo crumble plant-based pepperoni red onions roasted garlie Shoma tomatoes salami spicy Italian sausage steak strips spinach sun-dried tomatoes



#### **Orders**

Order ID		First name	Last name		E-mail	Phone	Street	Number	Qt pizzas	Show detatil
1		Rodrigo	Bruner	rodrig	o@bruner.net.br	2268831828	601 Roger Street	107	2	<b>♥</b> Hide Details
Size		Dough Souce			Cheeses					
Medium	Medium whole grain crust buffalo blue cheese				mozzarella, four cheese blend anchovies, broccoli, New York style pepperoni					
Medium	whole	grain thin crust	n thin crust home-style Italian toma		four cheese blend	anchovies, caramelized onions, cilantro, chipotle chicken, chipotle steak				
2		Benjamin	Bruner	ben@i	icloud.com	2268831828	University St	107	1	<b>③</b> Show Details



*Note*. Detail of the order.

# Install and run

1. Clone the repository:

```
git clone git@github.com:rodrigobruner/pizzaria.git
```

2. Navigate to the project directory:

```
cd pizzaria
```

- 3. Configure the Apacehe web server
  - 3.1 Create a vhost on your web server pointing to the /public directory
  - 3.2 Enable the mod\_rewrite
  - 3.3 Restart Apache
- 4. Configuring the database
  - 4.1 Create a database on your MySQL server;
  - 4.2 Select your database and run the /docs/database.sql file to create the tables;
  - 4.3 Rename the file

src/lib/connection-sample.php

to

src/lib/connection.php

and set the following parameters:

```
// Database settings
private static $host = '[SERVER]';
private static $database = '[DATABASE]';
private static $username = '[USERNAME]';
private static $password = '[PASSWORD]';
```