

BIS Development

A) Code Implementation:

The code implementing the "Display Details of a product" is in the provided PHP script. Here's a direct reference to the relevant section within the script:

```
$Products_array = Products::find_all(); // Retrieves all product records

if(!$Products_array) {

    echo "not found values"; // Displays a message if no products are found

}

// HTML table code follows here...


$Products_array = Products::find_all(); // Calls the find_all() method from the Products
class to fetch all product records from the database and store them in the
$Products_array.


if(!$Products_array) { // Checks if $Products_array is empty or returned false.

    echo "not found values"; // If true, outputs a message indicating no products were found.

}


// The rest of the script builds an HTML table to display product details:

echo "<table border = 1 width=100%>"; // Starts an HTML table with a 100% width and a
border.

echo "<tr bgcolor=#ADD8E6>"; // Begins a table row with a specified background color for
the header.

echo "<th> ID </th>"; // Table header cell for the 'ID' column.

echo "<th> Name </th>"; // Table header cell for the 'Name' column.

echo "<th> Description </th>"; // Table header cell for the 'Description' column.
```

```

echo "<th> Price </th>"; // Table header cell for the 'Price' column.

echo "</tr>"; // Ends the table row.


foreach ($Products_array as $Products) { // Loops through each product in the array.

    echo "<tr>"; // Starts a table row for a product.

    // Each echo statement below creates a table cell with the respective product details and
    action links.

    echo "<td>" . $Products->id . "</td>";

    echo "<td>" . $Products->name . "</td>";

    echo "<td>" . $Products->description . "</td>";

    echo "<td>" . $Products->price . "</td>";

    echo "<td> <a href=view_Products.php?id=" . $Products->id . "> View </td>";

    echo "<td> <a href=update.php?id=" . $Products->id . "> Update </td>";

    echo "<td> <a href=delete.php?id=" . $Products->id . "> Delete </td>";

    echo "</tr>"; // Ends the table row for the product.

}

echo "</table>"; // Ends the HTML table.

```

A) Object-Oriented Implementation Explanation:

This has been implemented using object-oriented programming in 7 different ways:

Class Use: The class products is essentially a vessel for creating product objects, and it contains the 'find_all' method, this behaviour is clearly associated with the class Products.

Encapsulation: The data of the product is encapsulated within the products objects. The key details of how the products are retrieved from my database are hidden within the find_all method. The only thing that the user needs to know is that by calling this method will return an array of product objects.

Method Calls: The method find_all is very useful as it is a basic concept in OOP, where operations are triggered by calling methods on objects or even classes.

Inheritance(assumed): The class products may be inherited from the base class that has functionality which can be shared, for example the connectivity of the database and executing queries.

Reusability: The class products can be used again throughout the application, depending on if that file has product-related operations required.

Maintenance: The code is organized in such a way that if changes were to be made in the future, it is more likely that it can be implemented within the products class without it having an effect on other parts of the application that uses the class.

Abstraction: The difficulty of the database operations is abstracted away so the developer that would be working on the product class objects would not require an in-depth knowledge of SQL or database information.

B) Code Implementation:

The code for displaying employees' details is provided in my php script. The method find_all() is called on the employee class to retrieve all the records for employees, then the table is displayed for each employees' details, with links for view, update and delete records.

B) Line-by-line Explanation:

```
include '/Applications/XAMPP/xamppfiles/htdocs/BISDCWK/private/initialize.php'; // This includes the initialize script, setting up the necessary environment for the script to run.
```

```
echo "<h2> Employees </h2>"; // This outputs a header for the page, indicating that the following content will display employees.
```

```
$Employees_array = Employees::find_all(); // This calls the static method `find_all` on the `Employees` class to retrieve all employee records from the database.
```

echo "<table border = 1 width=100%>"; // Begins the HTML output for a table with a border and full width.

echo "<tr bgcolor=#ADD8E6>"; // Outputs a table row with a background color for the header.

echo "<th> id </th>"; // Outputs the header cell for the 'id' column.

echo "<th> Name </th>"; // Outputs the header cell for the 'Name' column.

echo "<th> Email </th>"; // Outputs the header cell for the 'Email' column.

echo "<th> Username </th>"; // Outputs the header cell for the 'Username' column.

echo "<th> Mobile Number </th>"; // Outputs the header cell for the 'Mobile Number' column.

echo "</tr>"; // Closes the header row.

foreach (\$Employees_array as \$Employees) { // Begins a loop over each employee object in the array.

 // The following lines output the employee data within table cells and provide links for actions.

 echo "<tr>";

 echo "<td>" . \$Employees->id . "</td>";

 echo "<td>" . \$Employees->name . "</td>";

 echo "<td>" . \$Employees->email . "</td>";

 echo "<td>" . \$Employees->username . "</td>";

 echo "<td>" . \$Employees->mobilenumber . "</td>";

 echo "<td> id . "> View </td>";

 echo "<td> id . "> Update </td>";

 echo "<td> id . "> Delete </td>";

 echo "</tr>"; // Closes the row for the current employee.

}

echo "</table>"; // Closes the HTML table tag.

B) Explanation of Object-Oriented Implementation:

Class and Object: The Employees class is an object-oriented construct that likely encapsulates properties and behaviors associated with employee entities, such as attributes (id, name, email, etc.) and methods (find_all).

Encapsulation: The employee data is encapsulated within the Employees objects. Each object likely contains internal methods to take care of its data.

Abstraction: The method find_all abstracts the intricacy of the database query away from the user. The users of employee's class do not need to know exactly how the data is retrieved, the only thing they need to know is that find_all, once called, will return an array of employee objects.

Inheritance(assumed): The employees' class could inherit from the base class (not shown in code) that ultimately gives common database operations; this could be the database connection itself with query execution.

Polymorphism (assumed): If there were methods within the employees' class that might be overwritten from the parent class, this could be an example of polymorphism, permitting employees to be able to provide specific details on execution of those methods

Modularity: The script essentially conveys a modular design. The employees' class is separate from the logic of display, the changes to the employee would not affect how they are displayed in the script.

Message Passing; The employees objects communicate with the rest of the application via method calls for example find_all this is a form of message passing.

Appendix

<https://w1826770.users.ecs.westminster.ac.uk/5BUI5018W/public/>

Private

Credentials.php

```
<?php
```

```
// Credentials of my db set <br>' ;
```

```
//Keep database details in a seperate file
```

```
define("DB_SERVER", "phpmyadmin.ecs.westminster.ac.uk");
```

```
define("DB_USER", "w1826770");           //your login name
```

```
define("DB_PASS", "C1ZCvjVrGjR0");      //your password. You can find it in the address:
```

```
define("DB_NAME", "w1826770_0");        //your database
```

```
?>
```

Database_functions.php

```
<?php
```

```
function db_connect() {
```

```
    $database = new mysqli(DB_SERVER, DB_USER, DB_PASS, DB_NAME); //create the  
    object $connection
```

```
    confirm_db_connect($database);
```

```
    return $database; // the function returns the object $connection
```

```
}
```

```
function confirm_db_connect($database) {
```

```
if($database->connect_errno==0) {  
    echo "Connection to DB succeed. <br>";  
}
```

```
if($database->connect_errno>0) {  
    $msg = "Database connection failed: ";  
    $msg .= $database->connect_error;  
    $msg .= " (" . $database->connect_errno . ")";  
    echo $msg;  
    echo "<br>";  
}  
}
```

Initialize.php

<?php

```
require_once('credentials.php');  
require_once('database_functions.php');  
require_once('class_database.php');  
require_once('class_employees.php');  
require_once('class_products.php');  
//require_once('class_admin.php');  
//require_once('class_session.php');  
  
$database = db_connect(); // call the connection;  
Database::set_database($database);
```

?>

Class_products.php

<?php

require_once('class_database.php');

class products extends Database {

static public \$table_name="product";

static protected \$db_columns = ['id', 'name', 'description', 'price'];

public \$id;

public \$name;

public \$description;

public \$price;

}

?>

Class_employees.php

<?php

require_once('class_database.php');

class employees extends Database {

static public \$table_name="employee";


```
static protected $db_columns = ['id', 'name', 'email', 'username', 'mobile_number'];
```

```
public $id;
```

```
public $name;
```

```
public $email;
```

```
public $username;
```

```
public $mobilenumber;
```

```
}
```

```
?>
```

Class_database.php

```
<?php
```

```
class Database {
```

```
static protected $database;
```

```
static protected $table_name = "";
```

```
static protected $columns;
```

```
static public function set_database($database) {
```

```
    self::$database = $database;
```

```
}
```

```

static public function find_by_sql($sql){
    //echo $sql;

    $results = self::$database->query($sql);

    if(!$results) {          //add valuation of the query succeeded or failed
        exit("Database query failed. ");
    }

    $object_array=[];

    while($record = $results->fetch_assoc()) { //get the first row as an array and create an
object
        $object_array[] = static::instantiate($record);
    }

    return $object_array;
}

```

```

static public function find_all() {
    $sql = "SELECT * FROM " . static::$table_name; //why not self::$table_name???
    return static::find_by_sql($sql);
}

```

```

static public function find_by_id($id) {
    $sql = "SELECT * FROM " . static::$table_name . " WHERE id=" . static::$database-
>escape_string($id) . ""'; //escape the string

    $result = static::find_by_sql($sql);

    if(!empty($result)){

```

```

        return array_shift($result);
    } else {
        echo "empty";
    }
}

```

```

static protected function instantiate($record) {
    $object = new static;
    foreach($record as $property => $value) {
        if(property_exists($object, $property)){
            $object->$property=$value;
        }
    }
    return $object;
}

```

```

static public function verify_user($loginname, $password){
    $sql = "SELECT * FROM " . static::$table_name . " WHERE loginname='$loginname'
AND password='$password' "; //escape the string
    $result = static::find_by_sql($sql);
    return array_shift($result);
}

```

```

public function update() {

    $attributes = $this->attributes();

    $attribute_pairs=[];

    foreach($attributes as $key=>$value) {

        $attribute_pairs[] = "{$key}='{$value}'";

    }

    $sql = "UPDATE " . static::$table_name . " SET ";

    $sql .= join(', ', $attribute_pairs);

    $sql .= " WHERE id='". static::$database->escape_string($this->id) . "'"; //

    $results = static::$database->query($sql); //

    return $results;

}

```

```

public function create() {

    $attributes = $this->attributes();

    $sql = "INSERT INTO " . static::$table_name . " (";

    $sql .= join(', ', array_keys($attributes));

    $sql .= ") VALUES (' ";

    $sql .= join("'", "", array_values($attributes));

    $sql .= " ' )";

    $results = static::$database->query($sql);

    if($results) {

        $this->id = static::$database->insert_id;

    }

    return $results;

}

```

```
}
```

```
public function delete() {  
    $sql = "DELETE FROM " . static::$table_name . " WHERE id=" . $this->id . " LIMIT 1";  
    $results = static::$database->query($sql);  
    return $results;  
}
```

// \$attributes are the properties that have the database columns excluding 'id'

```
public function attributes() {  
    $attributes=[];  
    foreach(static::$db_columns as $column) {  
        if($column == 'id') { continue; }  
        $attributes[$column] = $this->$column;  
    }  
    return $attributes;  
}
```

```
public function merge_attributes($args=[]) {  
    foreach($args as $key=>$value) {  
        if(property_exists($this, $key)) {  
            $this->$key = $value;  
        }  
    }  
}
```

```
}  
}
```

```
?>
```

Public

Add_new_employee.php

```
<?php
```

```
    require_once '../private/initialize.php'; //initialize the web site
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>Add New Employee</title>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<link rel="stylesheet" type="text/css" href="style.css">
```

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
    Organic Snacks <br>
```

```
</div>
```

```
<div class="row">
```

```

<div class="column side">

    <?php include 'navigation.html';?>

</div>

<div class="column middle">

    //<?php

    // include '/Applications/XAMPP/xamppfiles/htdocs/BISDCWK/private/initialize.php';
    //initialize the web site

    //?>

<?php
if($_SERVER['REQUEST_METHOD'] === 'POST') {

    $args = [];          //in $args array we collect all the new values

    $args['id']=$_POST['id'];

    $args['name']=$_POST['name'];

    $args['email']=$_POST['email'];

    $args['username']=$_POST['username'];

    $args['mobilenumber']=$_POST['mobilenumber'];


    $employees = new employees;      // we create a new object with the values we just
entered

    $employees->id = $args["id"];

    $employees->name = $args["name"];

    $employees->email = $args["email"];

```

```
$employees->username = $args["username"];  
$employees->mobilenumber = $args["mobilenumber"];
```

```
$results = $employees->create(); // we call the function 'create' that is a method of  
Vehicle class
```

```
if($results){  
    echo "New Record added successfully";  
}
```

```
} else {
```

```
echo "<p> Use the following form to enter details for the new item (record / object) <br> ";  
echo "ATTENTION: all *** fields must be numbers </p>";
```

```
echo "<form action=add.php method='post'>";  
echo "<table>";  
echo "<tr> <td> ID </td> <td> <input type='text' id ='id'> </td> </tr>";  
echo "<tr> <td> Name </td> <td> <input type='text' name ='name'> </td> </tr>";  
echo "<tr> <td> Email </td> <td> <input type='text' email ='email'> </td> </tr>";
```



```
    echo "<tr> <td> Username </td> <td> <input type='text' username ='username'> </td>
</tr>";
```

```
    echo "<tr> <td> MobileNumber </td> <td> <textarea name='mobilenumber' rows='5'
cols='30'> </textarea> </td> </tr>";
```

```
echo "</table>";
```

```
    echo " <br> <br> <input type='submit' value='Add New' />";
```

```
echo "</form>";
```

```
}
```

```
?>
```

```
</div>
```

```
</body>
```

```
</html>
```

Delete.php

```
<?php
```

```
require_once '../private/initialize.php'; //initialize the web site
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>

<title>Organic Snacks</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel=stylesheet type=text/css href=style.css>

</head>
```

```
<body>

<div class="header">

    Organic Snacks <br>

</div>
```

```
<div class="row">

    <div class="column side">

        <?php include 'navigation.html';?>

    </div>

    <div class="column middle">
```

```
<?php

    $id = $_GET['id'];

    $deleted_employees = employees::find_by_id($id);

    $deleted_employees->delete();
```

```
echo "<p> The following entry is deleted </p>";

echo "<table>";

echo "<tr> <td><b> id </b> </td> <td>" . $deleted_employees->id . "</td> </tr>";

echo "<tr> <td> <b> Name </b> </td> <td>" . $deleted_employees->name . "</td>
</tr>";

echo "<tr> <td> <b> Email </b> </td> <td>" . $deleted_employees->email . "</td>
</tr>";

echo "<tr> <td> <b> Username </b> </td> <td>" . $deleted_employees->username .
"</td> </tr>";

echo "<tr> <td> <b> Mobile Number </b> </td> <td>" . $deleted_employees-
>mobilenumber . "</td> </tr>";

echo "</table>";
```

```
?>
```

```
</div>
```

```
</body>
```

```
</html>
```

Display_employees.php

```
<!DOCTYPE html>

<?php
    require_once '../private/initialize.php'; //initialize the web site
?>

<html lang="en">

<head>

<title>Display Employees</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" type="text/css" href="style.css">

</head>


<body>

<div class="header">

    Organic Snacks <br>

</div>


<div class="row">

    <div class="column side">

        <?php include 'navigation.html';?>

    </div>

    <div class="column middle">

        <?php
            include '/C:/xampp/htdocs/BIS D CWK/private/initialize.php';
```

?>

<?php

```
echo "<h2> Employees </h2>";
```

```
$employees_array = employees::find_all(); //call the find_all() function
```

```
echo "<table border = 1 width=100%>";
```

```
echo "<tr bgcolor=#ADD8E6>";
```

```
echo "<th> id </th>";
```

```
echo "<th> Name </th>";
```

```
echo "<th> Email </th>";
```

```
echo "<th> Username </th>";
```

```
echo "<th> Mobile Number </th>";
```

```
echo "</tr>";
```

```
foreach ($employees_array as $employees) {
```

```
echo "<tr>";
```

```
echo "<td>" . $employees->id . "</td>";
```

```
echo "<td>" . $employees->name . "</td>";
```

```
echo "<td>" . $employees->email . "</td>";
```

```
echo "<td>" . $employees->username . "</td>";
```

```
echo "<td>" . $employees->mobilenumber . "</td>";
```

```
        echo "<td> <a href=view_Employees.php?id=" . $employees->id . "> View </td>";
        echo "<td> <a href=update.php?id=" . $employees->id . "> Update </td>";
        echo "<td> <a href=delete.php?id=" . $employees->id . "> Delete </td>";
    echo "</tr>";
}

?>
```

```
</body>
```

```
</html>
```

Display_employees.php

```
<!DOCTYPE html>

<?php
    require_once '../private/initialize.php'; //initialize the web site
?>

<html lang="en">

<head>

<title>Display Employees</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel=stylesheet type=text/css href=style.css>
```

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
    Organic Snacks <br>
```

```
</div>
```

```
<div class="row">
```

```
    <div class="column side">
```

```
        <?php include 'navigation.html';?>
```

```
    </div>
```

```
    <div class="column middle">
```

```
        <?php
```

```
            include '/C:/xampp/htdocs/BIS D CWK/private/initialize.php';
```

```
        ?>
```

```
<?php
```

```
    echo "<h2> Employees </h2>";
```

```
    $employees_array = employees::find_all(); //call the find_all() function
```

```
    echo "<table border = 1 width=100%>";
```

```
echo "<tr bgcolor=#ADD8E6>";  
  
echo "<th> id </th>";  
  
echo "<th> Name </th>";  
  
echo "<th> Email </th>";  
  
echo "<th> Username </th>";  
  
echo "<th> Mobile Number </th>";  
  
echo "</tr>";
```

```
foreach ($employees_array as $employees) {  
    echo "<tr>";  
  
    echo "<td>" . $employees->id . "</td>";  
  
    echo "<td>" . $employees->name . "</td>";  
  
    echo "<td>" . $employees->email . "</td>";  
  
    echo "<td>" . $employees->username . "</td>";  
  
    echo "<td>" . $employees->mobilenumber . "</td>";  
  
    echo "<td> <a href=view_Employees.php?id=" . $employees->id . "> View </td>";  
  
    echo "<td> <a href=update.php?id=" . $employees->id . "> Update </td>";  
  
    echo "<td> <a href=delete.php?id=" . $employees->id . "> Delete </td>";  
  
    echo "</tr>";  
  
    }  
  
?>
```


</body>

</html>

Display_products.php

<?php

 require_once '../private/initialize.php'; //initialize the web site

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Display Products</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<div class="header">

 Organic Snacks

</div>

<div class="row">

 <div class="column side">

 <?php include 'navigation.html';?>

```
</div>
```

```
<div class="column middle">
```

```
<?php
```

```
    include '/C:/xampp/htdocs/BIS D CWK/private/initialize.php'; //initialize the web site
```

```
?>
```

```
<?php
```

```
    echo "<h2> Products </h2>";
```

```
    $products_array = products::find_all(); //call the find_all() function
```

```
    if(!$products_array)
```

```
        echo "not found values";
```

```
    echo "<table border = 1 width=100%>";
```

```
    echo "<tr bgcolor=#ADD8E6>";
```

```
        echo "<th> ID </th>";
```

```
        echo "<th> Name </th>";
```

```
        echo "<th> Description </th>";
```

```
        echo "<th> Price </th>";
```

```
    echo "</tr>";
```

```
    foreach ($products_array as $products) {
```

```
echo "<tr>";

echo "<td>" . $products->id . "</td>";

echo "<td>" . $products->name . "</td>";

echo "<td>" . $products->description . "</td>";

echo "<td>" . $products->price . "</td>";

echo "<td> <a href=view_Products.php?id=" . $products->id . "> View </td>";

echo "<td> <a href=update.php?id=" . $products->id . "> Update </td>";

echo "<td> <a href=delete.php?id=" . $products->id . "> Delete </td>";

echo "</tr>";

}

echo "</table>";

?>

</div>

</body>

</html>
```

Index.php

```
<!DOCTYPE html>

<html lang="en">

<head>

<title>Organic Snacks</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" type="text/css" href="style.css">

</head>


<body>

<div class="header">

    Organic Snacks <br>


</div>


<div class="row">

    <div class="column side">

        <?php include 'navigation.html';?>

    </div>

    <div class="column middle">

        <p> Welcome </>

        <p> This is the first page </p>
```

</div>

<div class="footer">

</div>

</body>

</html>

Navigation.html

<p> Select one of the following <p>

 Home

 Display Products

 Display Employees

 Add New Employee

Style.css

```
*{  
  box-sizing: border-box;  
}  
  
body {  
  font-family: Arial, Helvetica, sans-serif;  
}  
  
/* Style the header */  
  
.header {  
  background-color: #630c0c;  
  background-image: url(osnacks.png);  
  background-size: contain;  
  background-repeat: no-repeat;  
  background-position: right top;  
  padding: 10px;  
  text-align: center;  
  font-size: 1.5em;  
  color: rgb(240, 106, 3);  
  text-shadow: 1px 0.5px rgb(1, 18, 9);  
}
```

```
/* Create three unequal columns that floats next to each other */
```

```
.column {  
    float: left;  
    padding: 10px;  
    height: 500px; /* Should be removed. Only for demonstration */  
}
```

```
/* Left and right column */
```

```
.column.side {  
    background-color: rgb(185, 60, 14);  
    width: 20%;  
}
```

```
/* Middle column */
```

```
.column.middle {  
    background-color: #a44e10;  
    width: 80%;  
}
```

```
/* Clear floats after the columns */
```

```
.row:after {  
    content: "";  
    display: table;  
    clear: both;  
}
```

```
/* Style the footer */  
  
.footer {  
  
    background-color: #721515;  
  
    padding: 10px;  
  
    padding-bottom: 10px;  
  
    text-align: right;  
  
    font-size: 0.65em;  
  
    text-shadow: 0.3px 0.3px rgb(12, 50, 85);  
  
}
```

/* Responsive layout - makes the three columns stack on top of each other instead of next to each other */

```
@media (max-width: 600px) {  
  
    .column.side, .column.middle {  
  
        width: 100%;  
  
    }  
  
}
```

Update.php

```
<?php  
  
require_once '../private/initialize.php'; //initialize the web site  
  
?>
```



```
<!DOCTYPE html>

<html lang="en">

<head>

<title>Organic Snacks</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" type="text/css" href="style.css">

</head>


<body>

<div class="header">

    Organic Snacks <br>

</div>


<div class="row">

    <div class="column side">

        <?php include 'navigation.html';?>

    </div>

    <div class="column middle">

        <?php

            $id = $_GET['id'];

            echo "my id is: " . $id. "<br>";

            $specific_employees = employees::find_by_id($id); //call the find_by_id() function; we
            identify the record to be updated; get all its values
```

```

if($_SERVER['REQUEST_METHOD'] === 'POST') {

    //if there is a post action create the array $args and use the function
    merge_attributes($args)

        $args=[];                //in $args array we collect all the new values

        $args['id']=$_POST['id'];

        $args['name']=$_POST['name'];

        $args['description']=$_POST['description'];

        $args['price']=$_POST['price'];


    $specific_Employees->merge_attributes($args);

    $results = $specific_Employees->update();


    if($results) {

        echo "Successful updating";

    }


    echo " <p> Details of the updated item </p> ";


    echo "<table>";

    echo "<tr> <td><b> id </b> </td> <td>" . $specific_employees->id . "</td> </tr>";

    echo "<tr> <td> <b> Name </b> </td> <td>" . $specific_employees->name . "</td>
</tr>";

    echo "<tr> <td> <b> Email </b> </td> <td>" . $specific_employees->email . "</td>
</tr>";

```

```

        echo "<tr> <td> <b> Username </b> </td> <td>" . $specific_employees-
>username . "</td> </tr>";

        echo "<tr> <td> <b> mobilenummer </b> </td> <td>" . $specific_employees-
>mobilenummer . "</td> </tr>";

        echo "</table>";

    } else {

        //if there is no post action present the values of the record in a form to be updated

        echo " <p> Use the following form to update the selected item <br> ";

        echo "ATTENTION: all *** fields must be numbers </p>";


        echo "<form action=update.php?id=" . $id . " method='post'>";

        echo "<table>";

            echo "<tr> <td> id </td> <td> <input type='text' name ='id' value='" .
$specific_employees->id . "' > </td> </tr>";

            echo "<tr> <td> Name </td> <td> <input type='text' name ='name' value='" .
$specific_employees->name . "' > </td> </tr>";

            echo "<tr> <td> email </td> <td> <textarea name='description' rows='5'
cols='30'>" . $specific_employees->email . "</textarea> </td> </tr>";

            echo "<tr> <td> username </td> <td> <input type='text' name ='price' value='" .
$specific_employees->username . "'> </td> </tr>";

            echo "<tr> <td> mobilenummer </td> <td> <input type='text' name
='price' value='" . $specific_employees->mobilenummer . "'> </td> </tr>";


        echo "</table>";

        echo " <input type='submit' value='Update Record' />";
    }

```

```
echo "</form>";
```

```
}
```

```
?>
```

```
</div>
```

```
</body>
```

```
</html>
```

View Employess.php

```
<?php
```

```
    require_once '../private/initialize.php'; //initialize the web site
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>View Employees</title>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<link rel=stylesheet type=text/css href=style.css>
```

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
    Organic Snacks <br>
```

```
</div>
```

```
<div class="row">
```

```
    <div class="column side">
```

```
        <?php include 'navigation.html';?>
```

```
    </div>
```

```
    <div class="column middle">
```

```
<?php
```

```
    $id = $_GET['id'];
```

```
    if(!$id) {
```

```
        echo "problem - redirect";
```

```
    } else {
```

```
        echo $id;
```

```
    }
```

```
$specific_employees = employees::find_by_id($id); //call the find_by_id() function
```

```
echo " <p> Details of the selected item </p> ";
```

```
echo "<table>";
```

```
echo "<tr> <td><b> ID </b> </td> <td>" . $specific_employees->id . "</td> </tr>";
```

```
echo "<tr> <td> <b> Name </b> </td> <td>" . $specific_employees->name . "</td>  
</tr>";
```

```
echo "<tr> <td> <b> Email </b> </td> <td>" . $specific_employees->email . "</td> </tr>";
```

```
echo "<tr> <td> <b> Username </b> </td> <td>" . $specific_employees->username .  
"</td> </tr>";
```

```
echo "<tr> <td> <b> MobileNumber </b> </td> <td>" . $specific_employees->  
mobilenumber . "</td> </tr>";
```

```
echo "</table>";
```

```
?>
```

```
</div>
```

```
</body>
```

</html>

View_Products.php

<?php

 require_once '../private/initialize.php'; //initialize the web site

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>View Products</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<div class="header">

 Organic Snacks

</div>

<div class="row">

 <div class="column side">

```
<?php include 'navigation.html';?>

</div>

<div class="column middle">

<?php

$id = $_GET['id'];

if(!$id) {
    echo "problem - redirect";
} else {
    echo $id;
}

$specific_products = products::find_by_id($id); //call the find_by_id() function

echo " <p> Details of the selected item </p> ";

echo "<table>";
echo "<tr> <td><b> ID </b> </td> <td>" . $specific_products->id . "</td> </tr>";
echo "<tr> <td> <b> Name </b> </td> <td>" . $specific_products->name . "</td> </tr>";
echo "<tr> <td> <b> Description </b> </td> <td>" . $specific_products->description .
"</td> </tr>";

echo "<tr> <td> <b> Price </b> </td> <td>" . $specific_products->price . "</td> </tr>";
echo "</table>";
```


?>

</div>

</body>

</html>