

**Course Code:** ITGN 350 **Course Title:** Web Design and Development

**Semester:** Spring **Academic Year:** 2019/2020

**Assessment Instrument: (Final Exam Part 1) Due Date:** Post on Moodle

**Course Instructor: Dr. Shadi Atalla**

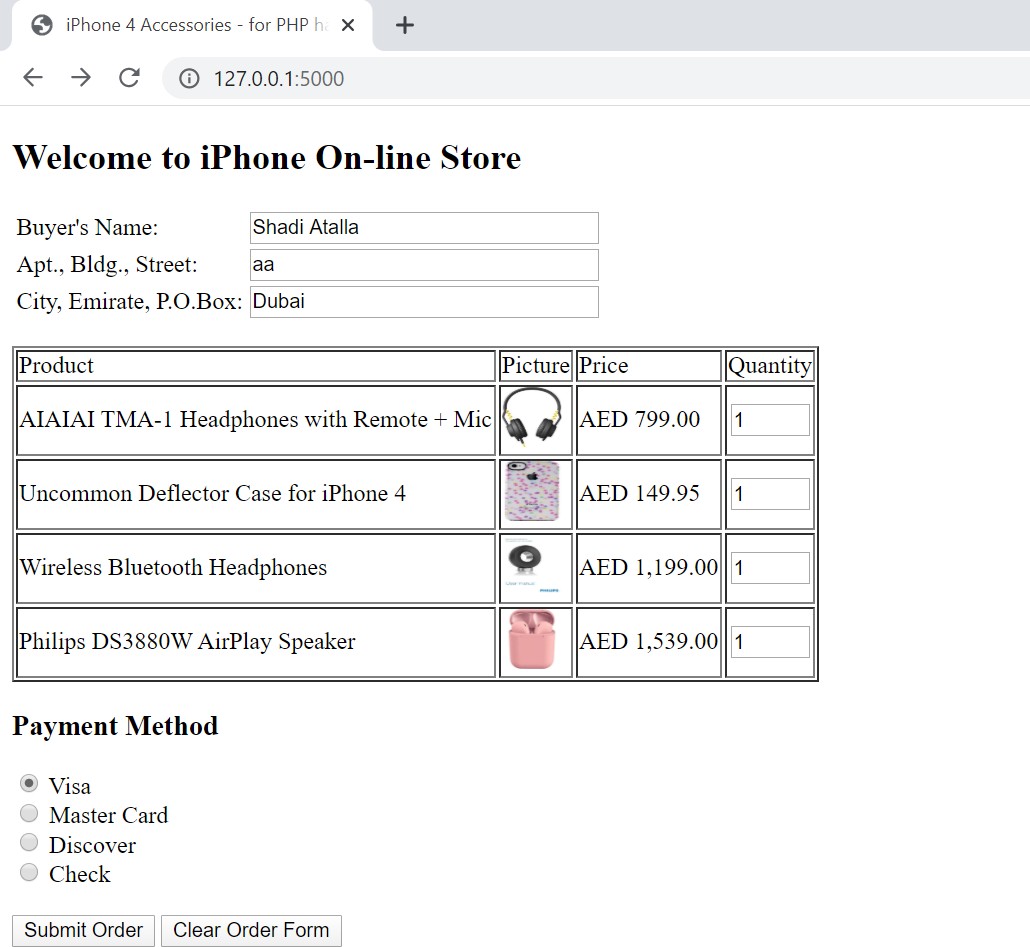
**College/Department:** College of Engineering and Information Technology

This assessment instrument assesses the following Course Learning Outcomes (CLO):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Question SN** | **CLO #** | **CLO Description** | **Question Total Mark** | **Student Mark** |
| **Question 1** | **CLO 4** | **Create** interactive forms that capture and validate user input | **5** |  |
|  | **CLO 5** | **Develop** database-enabled Web applications using PHP, MySQL and Apache | **5** |  |
| **Oral Discussion** | | | **10** |  |
| **Total Mark** | | | **20** |  |

\*Linkages to Program Outcomes and Concentration Outcomes are provided in the Syllabus.

**QUESTION**: [10 MARKS] Write HTML/CSS code and Server-side script ﬁles to create **the iPhone Store shown below.**



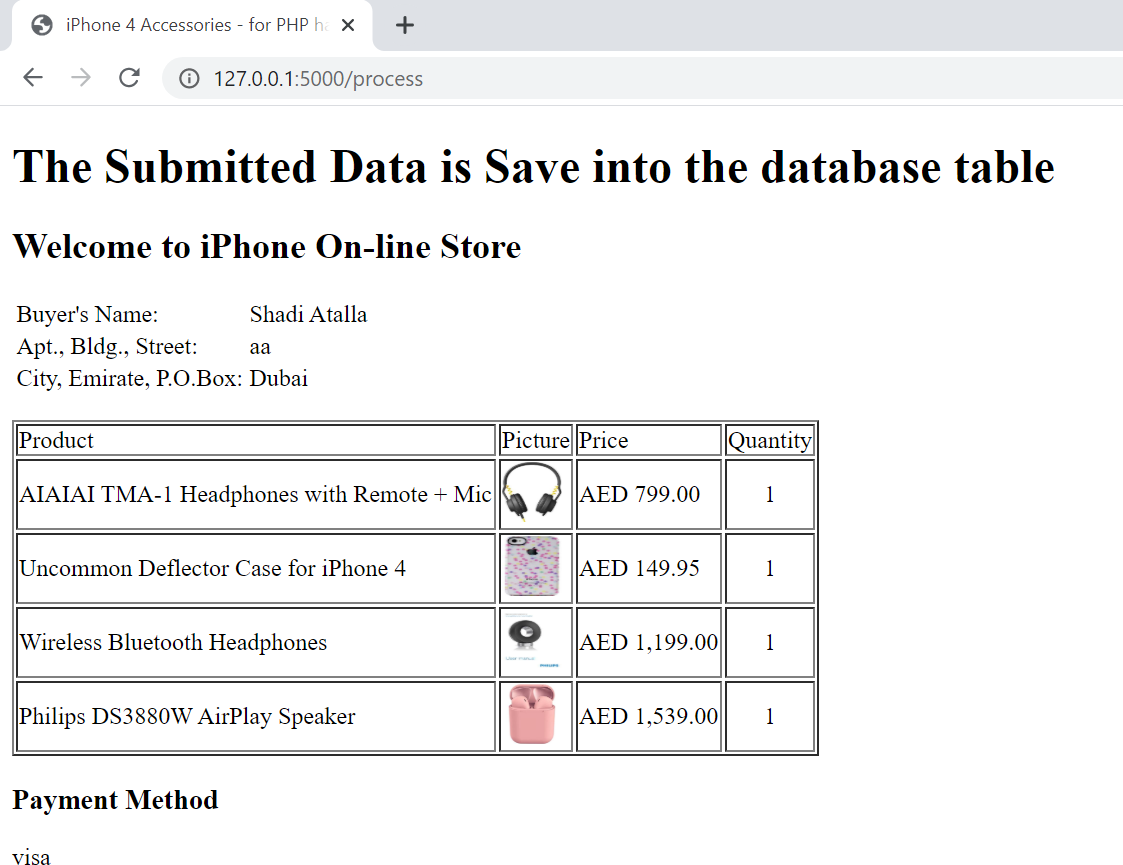
This on-line store would capture customer information, products selected, and payment method as shown above. On clicking submit the form will be sent to the server for processing. A **server-side** ﬁle will process cost calculation and produce a conﬁrmation page with customer supplied information, payment method, number of items and total cost as shown below. Please note that all products pictures are sized as 40 x 40 points and named Pict1.jpg, Pict2.jpg, Pict3.jpg, and Pict4.jpg. The picture name index corresponds to the product index.

A database contains the information related to **the iPhone Store**. Each Transaction is characterized by

* `name` varchar(30) NOT NULL,
* `street` varchar(30) NOT NULL,
* `city` varchar(30) NOT NULL,
* `accessory1` int(11) NOT NULL,
* `accessory2` int(11) NOT NULL,
* `accessory3` int(11) NOT NULL,
* `accessory4` int(11) NOT NULL,
* `payment` varchar(30) NOT NULL

The relational schema is composed by the following table:



**AKer SubmiMng Data is stored into database and the following page is shown**

**Answer Sheet**

**Commands to run the app:**

First I downloaded python in my computer then I download IDE sublime through which I wrote python code.Flask library was used for the development of this project as well as mysql.connector library. Insert query for mysql and fetch is used to retrieve the saved data.Html was designed and saved with in the python project.

**Server Script code (app.py)**

from flask import Flask, render\_template, request, redirect

import mysql.connector

app=Flask(\_\_name\_\_)

@app.route('/')

def home():

app.route('/')

return render\_template("home.html")

@app.route('/signup', methods = ['POST'])

def signup():

email = mysql.connector.connect(user='root', password='',host='localhost',database='python')

mycursor = email.cursor()

sql = "INSERT INTO product\_order (name,street,city,accessory1,accessory2,accessory3,accessory4,payment) VALUES (%s, %s, %s, %s, %s, %s, %s, %s)"

val = [

(request.form['name'],request.form['street'],request.form['city'],request.form['accessory1'],request.form['accessory2'],request.form['accessory3'],request.form['accessory4'],request.form['payment'])

]

mycursor.executemany(sql, val)

mycursor.execute("SELECT \* FROM product\_order")

data = mycursor.fetchall()

email.commit()

return render\_template("about.html",data=data)

if \_\_name\_\_=="\_\_main\_\_":

app.run(debug=True)

**Index.html code:**

<!DOCTYPE HTML>

<html>

<head>

<title>Title of the document</title>

<style type="text/css">

\*{

/\* margin: 0px; \*/

padding: 0px;

box-sizing: border-box;

}

.body{

width: 90%;

margin: auto;

}

table, th, td {

border: 1px solid black;

border-collapse: collapse;

}

th, td {

padding: 5px;

text-align: left;

}

tr{

border: solid 1px black;

}

table{

border: 1px solid black;

}

table th{

border: 1px solid black;

}

table th tr{

border: 1px solid black;

}

table tr td{

border: 1px solid black;

}

</style>

</head>

<body>

<h1>Welcome to iPhone On-line Store</h1>

<form action="/signup" method="post">

<label>Buyer's Name:</label>

<input type="text" name="name" style="margin-left: 54px;">

<br>

<br>

<label>Apt., Bldg., Street:</label>

<input type="text" name="street" style="margin-left: 28px;">

<br>

<br>

<label>City, Emirate,P.O Box:</label>

<input type="text" name="city" style="margin-left: 2px;">

<div style="margin-top: 2%;">

<table>

<tr>

<th>Product</th>

<th>Picture</th>

<th>Price</th>

<th>Quantity</th>

</tr>

<tbody>

<tr>

<td>AIAIAI TMA-1 Headphones with Remote+Mic</td>

<td><img src="img/headphone.png" width="49px" alt=""></td>

<td>AED 799.00</td>

<td><input type="number" name="accessory1" value="1" > </td>

</tr>

<tr>

<td>Uncommon Defelector Case for iphone 4</td>

<td><img src="img/case.png" width="45px" alt=""></td>

<td>AED 149.95</td>

<td><input type="number" name="accessory2" value="1"> </td>

</tr>

<tr>

<td>Wireless Bluetooth Headphones</td>

<td><img src="img/headphone1.png" width="45px" alt=""></td>

<td>AED 1,199.00</td>

<td><input type="number" name="accessory3" value="1"> </td>

</tr>

<tr>

<td>Philips DS3880W AirPlay Speaker</td>

<td><img src="img/Philips.png" width="45px" alt=""></td>

<td>AED 1,539.00</td>

<td><input type="number" name="accessory4" value="1"> </td>

</tr>

</tbody>

</table>

</div>

<div style="margin-top: 2%;">

<strong style="font-size: 23px;">Payment Method</strong>

<div style="margin-top:1%;">

<input type="radio" name="payment" value="Visa" checked="">

<label>Visa</label>

</div>

<div>

<input type="radio" name="payment" value="Master Card">

<label>Master Card</label>

</div>

<div>

<input type="radio" name="payment" value="Discover">

<label>Discover</label>

</div>

<div>

<input type="radio" name="payment" value="Check">

<label>Check</label>

</div >

<div style="margin-top:1%;">

<input type="submit" value="Submit Order">

<button>Clear Order Form</button>

</div>

</div>

</form>

</body>

</html>

**Process.html Code:**

<!DOCTYPE HTML>

<html>

<head>

<title>Title of the document</title>

<style type="text/css">

\*{

/\* margin: 0px; \*/

padding: 0px;

box-sizing: border-box;

}

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width: 90%;

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}

table th{

border: 1px solid black;

}

table th tr{

border: 1px solid black;

}

table tr td{

border: 1px solid black;

}

</style>

</head>

<body>

<h1>The Submitted Data is Save into the Database Table:</h1>

<h2>Welcome to iPhone On-line Store</h2>

<label>Buyer's Name:</label>

<label style="padding-left: 12%;">{{data[0][1]}}</label>

<!-- <input type="text" name="name" style="margin-left: 54px;"> -->

<br>

<br>

<label>Apt., Bldg., Street:</label>

<label style="padding-left: 10%;">{{data[0][2]}}.</label>

<!-- <input type="text" name="street" style="margin-left: 28px;"> -->

<br>

<br>

<label>City, Emirate,P.O Box:</label>

<label style="padding-left: 8%;">{{data[0][3]}}</label>

<!-- <input type="text" name="city" style="margin-left: 2px;"> -->

<div style="margin-top: 2%;">

<table>

<tr>

<th>Product</th>

<th>Picture</th>

<th>Price</th>

<th>Quantity</th>

</tr>

<tbody>

<tr>

<td>AIAIAI TMA-1 Headphones with Remote+Mic</td>

<td><img src="img/headphone.png" width="49px" alt=""></td>

<td>AED 799.00</td>

<!-- <td><input type="number" value="1" > </td> -->

<td>{{data[0][4]}}</td>

</tr>

<tr>

<td>Uncommon Defelector Case for iphone 4</td>

<td><img src="img/case.png" width="45px" alt=""></td>

<td>AED 149.95</td>

<!-- <td><input type="number" value="1"> </td> -->

<td>{{data[0][5]}}</td>

</tr>

<tr>

<td>Wireless Bluetooth Headphones</td>

<td><img src="img/headphone1.png" width="45px" alt=""></td>

<td>AED 1,199.00</td>

<!-- <td><input type="number" value="1"> </td> -->

<td>{{data[0][6]}}</td>

</tr>

<tr>

<td>Philips DS3880W AirPlay Speaker</td>

<td><img src="img/Philips.png" width="45px" alt=""></td>

<td>AED 1,539.00</td>

<!-- <td><input type="number" value="1"> </td> -->

<td>{{data[0][7]}}</td>

</tr>

</tbody>

</table>

</div>

<div style="margin-top: 2%;">

<strong style="font-size: 23px;">Payment Method</strong>

<div style="margin-top:1%;">

<!-- <input type="radio" name="payment" checked=""> -->

<label>{{data[0][8]}}</label>

</div>

</div>

</body>

</html>