

## Assignment 4

**Due: as per class plan**

### Important Notes:

- This is a **group assignment**. Groups may consist of at most **two people**. Under no circumstances will groups of 3 or more be permitted.
- I will be checking for borrowed or copied assignments. All work is to be done from scratch, you may not use any templates or other assistances.
- An in-class demo is required for full marks.
- This assessment is out of 30 marks total.

### Tasks:

In this assignment, you will use **PHP** to build an application that allows a user to **insert new records** into a relational database.

#### 1. HTML Static Content - Web Form

- On the **landing page**, create web forms that collect information from the user.
  - The first web form should collect the information required to **insert a new Part into the PARTS table**. After the data has been successfully validated, submit it to **parts.php**. **(3 marks)**
  - The second web form should collect the information required to **insert a new Vendor into the VENDORS table**. After the data has been successfully validated, submit it to **vendors.php**. **(3 marks)**
  - The final web form will be used to **construct a parameter query**. After the data has been successfully validated, submit it to **parameter.php**. **(1 mark)**
- Refer to “**assignment5.mdb**” for more details about the table schemas.

#### 2. HTML Static Content - Instructions **(1 mark)**

Be sure to **explain to the user what your web application is supposed to do**. Include details on how to use the application. Explicitly describe the construction of the parameter query.

#### 3. JavaScript - Form Validation

- All user **inputs must be validated** so that they match the data types of the corresponding field from the database. Do not allow null fields if the data is required. **(4 marks)**
- If any errors exist, display a compound message that includes all of the error messages. **Do not use a JavaScript popup box** for this purpose. **(2 marks)**

#### 4. PHP - Form Validation

- All user inputs must be validated so that they match the data types of the corresponding field from the database. Do not allow null fields if the data is required. **(4 marks)**
- If any errors exist, display a compound message that includes all of the error messages. **(2 marks)**

#### 5. PHP - Data Persistence

From **parts.php** and **vendors.php**:

- After the data has been successfully validated, display a message that summarizes the data that the user provided. **(2 marks)**
- Insert the data into the corresponding table. **(2 marks)**

#### 6. PHP - Parameter Query **(2 marks)**

From **parameter.php**:

- Create a parameter query incorporating the information that the user submitted. You are completely free to make the query as complicated as you like. Execute the query and display the results.

#### 7. Programming Style and Standards **(2 marks)**

It is a good idea to practice conforming to a set of programming standards. Refer to the posted summary of the Programming Standards used by the CP/CPA programs.

#### 8. In-class Demo **(2 marks)**

Your group will be providing in-class demos on the due date. Marks will be given for general knowledge of the submitted solution.

#### **Extra Note:**

I have provided sample code that establishes a connection to the database, retrieves some of the data from the `VENDORS` table and displays it in a dynamically generated HTML table.

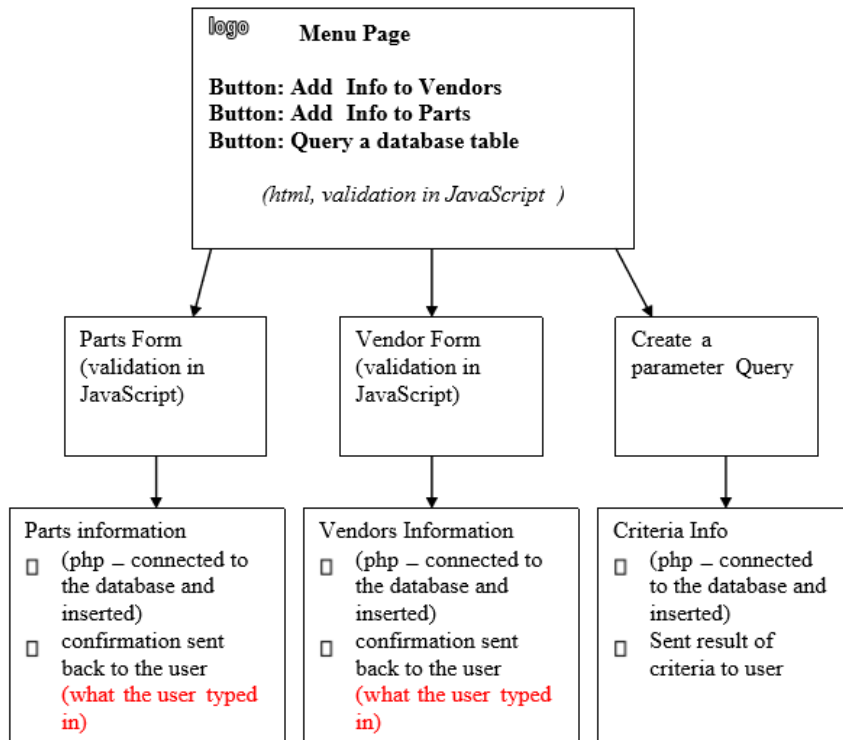
#### **Wireframes:**

I have provided some wireframes and user flow to help you understand better. You may or may not use the wireframes as long as you satisfy above requirements.

#### **Submissions:**

To submit this assignment, place all of your work into a single folder. Zip (or RAR) this folder, and submit the zipped file to eConestoga. No cover sheet is required for this assignment. A good way to make sure everything is correct, is to unzip the file you are submitting on a different location on your computer and making sure everything works. I have to be able to see your results.

## User flow:



## Some wireframes to help you decide on various forms you need:

PARTS

PART ID :	<input type="text"/>
VENDOR NUMBER :	<input type="text"/>
DESCRIPTION :	<input type="text"/>
ON HAND :	<input type="text"/>
ON ORDER :	<input type="text"/>
COST :	\$ <input type="text"/>
LAST PRICE :	\$ <input type="text"/>
<input type="button" value="SUBMIT"/>	

## VENDORS

VENDOR NUMBER :	<input type="text"/>
VENDOR NAME :	<input type="text"/>
ADDRESS1 :	<input type="text"/>
ADDRESS2 :	<input type="text"/>
CITY :	<input type="text"/>
PROVINCE :	<input type="text" value="ONTARIO"/> ▼
POST CODE :	<input type="text" value="X9X X9X"/>
COUNTRY :	<input type="text"/>
PHONE :	<input type="text" value="123-123-123"/>
FAX :	<input type="text"/>

SUBMIT

## SEARCH

LIST :	<div>EVERYTHING ▼</div> <div>PARTS</div> <div>VENDORS</div>
<div>SUBMIT</div>	

## SEARCH PARTS

DESCRIPTION :	<input type="text"/>
<div>SEARCH</div>	

## SEARCH VENDORS

VENDOR NAME :	<input type="text"/>
<div>SEARCH</div>	