Lab Exercise 08 – Database Handling using PHP and MySQL

Objectives

By the end of this lab session, you will be familiar with handling database using PHP and MySQL.

Introduction

- MySQL is a database system used on the web and runs on a server (XAMMP).

- MySQL is ideal for both small and large applications

- It is very fast, reliable, and easy to use

Exercise 1:

Before accessing the data in the database, it needs to connect with the database server.

- Go to the IWT folder structure which is in the /htdocs folder.

- Inside *"/src"* folder create a file called "**config.php**" and add the following code segment.

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = new mysqli($servername, $username, $password);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```

Hint: https://www.w3schools.com/php/php_mysql_connect.asp

- Create a file named **addItems.html** and **submitaAddItems.php** inside *"/src"* folder.

- Open the "**index.php**" file.

- Copy the entire code and paste it in the addItems.html.

- Delete the content between navigation bar and the footer.

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- Fill the following boxes with the relevant style codes for the given activities.

- Go to XAMPP controller and start both apache and MySQL services.

- Open phpmyAdmin and create a new database named "**Shopping cart**".

  Hint: *http://localhost/phpmyadmin*

- Create a table named "**item**" inside the database.

- Add 5 columns with following names and data types,

  - Item_id (int)
  - Item_name (varchar)
  - Item_description (varchar)

  - Price (float)
  - Quantity (int)
  - Item_code

- Name the primary key and explain the reason for choosing that specific field as the primary key?

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	item_id	int(3)			No	None		Change ⊖ Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	item_name	varchar(30)			Yes	NULL		Change ⊖ Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
3	quantity	int(3)			Yes	NULL		Change ⊖ Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
4	price	float			Yes	NULL		Change ⊖ Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
5	description	varchar(100)			Yes	NULL		Change ⊖ Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

- Add a button named "**Add Item**" in the **index.php** file.

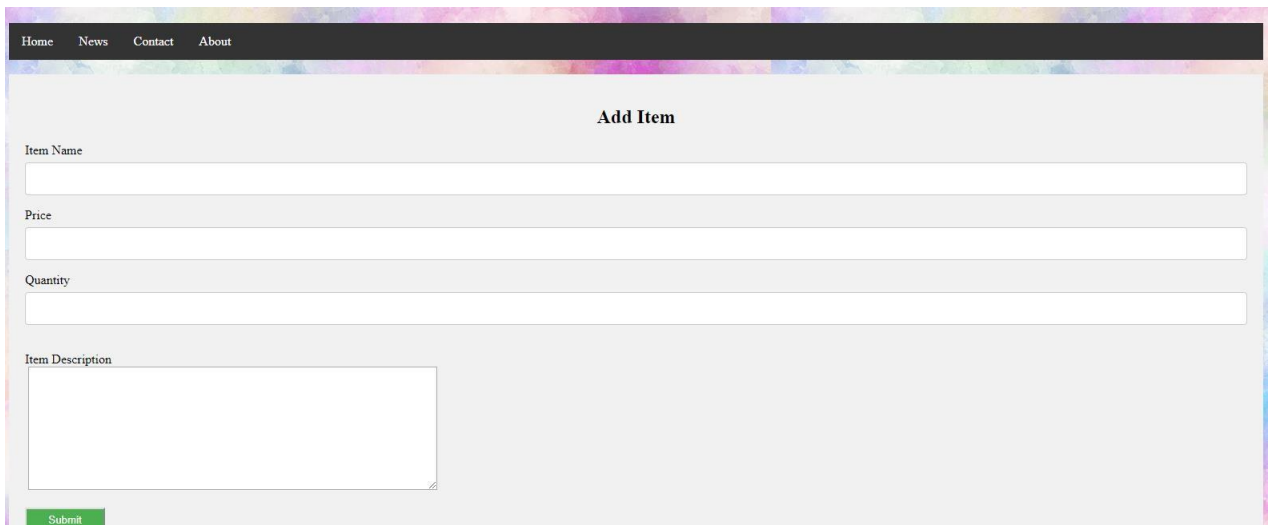**Lab Exercise 08 – Database Handling using PHP and MySQL**

- Once the button is clicked, direct it to **addItems.html**.

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- Create a form inside **addItem.html** to add items into the system. Form should contain,

  - Name of the item,   - Quantity.

  - Description,   - Item code

  - Price

- Send form data to **submitAddItems.php** file.

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- Import **config.php** file into **submitAddItems.php**.

  Hint – "include {file_ name}"

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- Insert form data to the item table and display the result message. (Success or fail)

  Hint - https://www.w3schools.com/php/php_mysql_insert.asp

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		item_id	item_name	quantity	price	description
☐	🖊 Edit 🔁 Copy ⊖ Delete	1	item 1	23	10000	item 1 description

- Remove the items which are displaying in the table inside the **index.php**.
- Import **config.php** file into **index.php**.

- List down all the items from the database and display them inside the table located in **index.php** .

  Hint - https://www.w3schools.com/php/php_mysql_select.asp