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

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**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
$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](https://www.w3schools.com/php/php_mysql_connect.asp)*

- Create a file named **addItems.html** and **submitAddItems.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

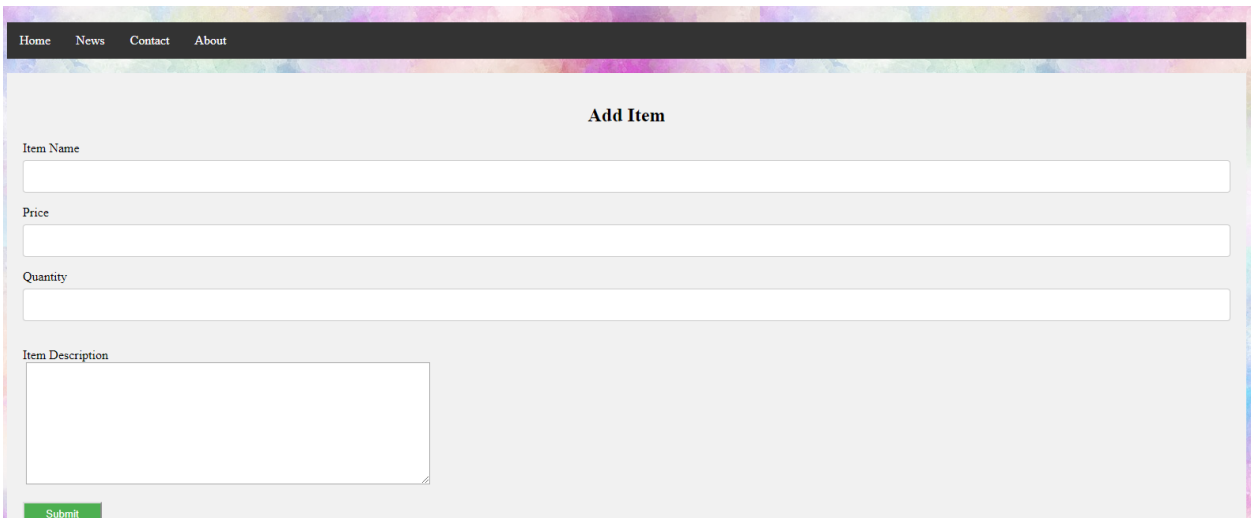
- Add a button named “**Add Item**” in the **index.php** file.

<a href="#">Home</a> <a href="#">News</a> <a href="#">Contact</a> <a href="#">About</a>	
<div>Add New</div>	
Item Name	Description
	<ul style="list-style-type: none"> <li>▪ True Tone display</li> <li>▪ Wide color display (P3)</li> <li>▪ 3D Touch</li> </ul>

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

- Create a form inside **addItem.html** to add items into the system. Form should contain,
  - Name of the item,
  - Quantity.
  - Description,
  - Item code
  - Price



The screenshot shows a web browser window with a navigation bar containing 'Home', 'News', 'Contact', and 'About'. The main content area is titled 'Add Item' and contains a form with the following fields: 'Item Name' (text input), 'Price' (text input), 'Quantity' (text input), and 'Item Description' (text area). A green 'Submit' button is located at the bottom left of the form.

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

- 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](https://www.w3schools.com/php/php_mysql_insert.asp)*

+ Options

	item_id	item_name	quantity	price	description
<input type="checkbox"/> Edit <input type="button" value="Copy"/> <input type="button" value="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](https://www.w3schools.com/php/php_mysql_select.asp)*