CST 226-2 Web Application Development

Assignment 1 (Practical)

Duration: 1 hour and 30 minutes

Instructions:

Create a new project in NetBeans IDE with your registration number. (E.g.: **UWU_CST_21_XXX**)

Upload the zipped project to the given link in the VLE.

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1. You are required to create a simple web application to insert the item details to the database using the form given in Figure 1.
   (**Note:** Copy and paste the html code given in the **index.php** file to your **index.php** file to generate the **Insert Item form** and set the action to **process.php**.)

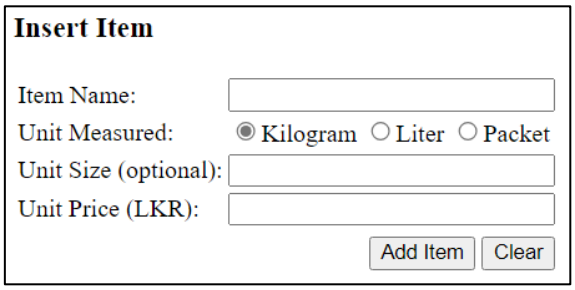

Figure 1: Insert Item Form

2. Create a database called **'assignment1db'** on MySQL server and create the **item table** using the following SQL command.

```
CREATE TABLE item (
  itemId int(11) PRIMARY KEY NOT NULL AUTO_INCREMENT,
  itemName varchar(20) NOT NULL,
  unitMeasured varchar(20) NOT NULL,
  unitSize varchar(20),
  unitPrice double NOT NULL
);
```

3. Create the **DbConnector class** with the information given in Figure 2 using **PDO**.

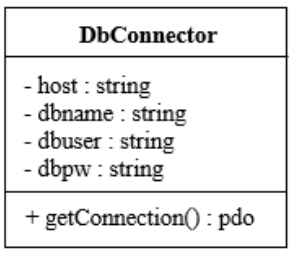

Figure 2: DBConnector Class

4. Implement the **Item class** using the class structure given in Figure 3 using object-oriented PHP.
   - Name the class as **item.php**.
   - Within **addItem()** function, write the code to insert item details to the database using prepared statements.
   - If the item details are successfully saved to the database, display a message to the user (i.e.: **The item sugar inserted successfully**) and for any errors, inform the user with an "**Insertion failed**" message.

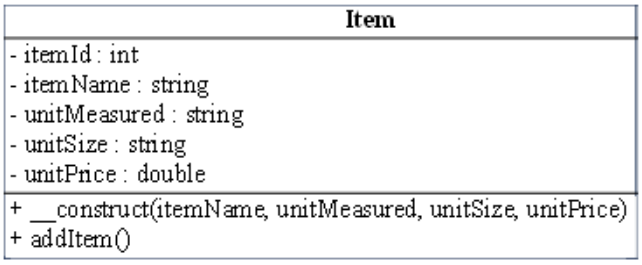

Figure 3: Item Class

5. Create another page called **process.php** to receive the item details obtained from **Insert Item form**.
   - Use validations and other security measures as much as possible.
   - Within the page, assign the received item details to an **item object** through the **constructor**.
   - Call the **addItem()** function in the item class through the **item object** to save the item details.