Create a small web application (in PHP) to manage a simple shopping list. It will initially display a small menu with the following options:

- Show list

- Insert

- Modify

- Delete

For inserting items into the shopping list, create a form requesting the following information:

- Name

- Quantity

- Price

The Name refers to the product to be added to the list, Quantity indicates the number of units to be purchased for that product, and Price is the unit value of each product.

All information regarding the shopping list will be stored in an array. Name is a mandatory field, and the record should not be added to the array if it is empty, displaying a warning message to the user. If the insertion is successful, notify the user and display the list.

When displaying the shopping list, it should be presented in a table (using the HTML <table> tag) or, if preferred, using CSS with the display property (display: table). Each row should have 4 columns: Name, Quantity, Price, Total. The first three columns reference the stored information, and the fourth is a calculated field that multiplies the product price by the quantity. At the end of the list, another calculated field should display the sum of all total prices, that indicates the Total Purchase Price. If there is nothing to show, notify the user.

The modification option will display a form with the data of the record to be modified loaded and will allow changing any of the 3 fields (Name, Quantity, Price). However, just like in the insertion, data will not be updated in the array if the Name field is left empty, displaying a warning message to the user. If the modification is successful, notify the user and display the updated list.

When deleting a record from the list, it should be removed from the array. If the deletion is successful, notify the user and display the updated list.

All code must be properly documented using PHP comments.

Functions should be used, and as many as needed can be created. There should be at least two functions:

Calculate_Total_Price_Product: will have an output parameter that returns the calculated amount (passed by reference).
Calculate_Total_Purchase_Price: will be the function that returns the calculated amount.
All functions should be implemented in a separate file called funciones.php.