

## Lab2

### Functional

- 1- The system should allow new users to create a new account with no username conflicts and allow active users to log in securely using a simple log in page.
- 2- The system should allow users to be able to get specific products by being able to filter different attributes such as the category and price or by searching the product's name.
- 3- The system should be able to let users manage their shopping cart by adding, updating and removing the items with their quantities they choose and calculate the total price of the items list.
- 4- The system shall provide a checkout page to the users to handle their payments from the website using a simple and easy payment gateway.
- 5- The system shall send notification to the users that have active accounts in the system about their order status, shipment status, new items listed in the system and the new promotions available
- 6- The system shall allow administrators to control the items in the system by adding, updating and deleting items and manage sales, discounts and categories types.

### Non-functional

- 1- Security : The system shall allow secure authentication and authorization based on the logged-in users and encrypt the user's password

- 2- Scalability : The system should be capable to handle 100 concurrent requests at the same time and keep a stable connection.
- 3- Availability : The system should stay available 24 hours per day
- 4- Reliability : The system should make periodic back-ups to keep the data safe.