

Air University (Multan Campus)

Dept. Comp. Sci. – BSCS V Fall’17

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| Use Cases |
| Lab Task- Activity Models |
| Software Engineering |

By

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**Question#1:**

1. **Online Shopping:**

**Actors:**

**Primary Actor:** Customer.

**Scecondary Actor:** Web Administrator.

**Use Case:**

**Use case Title:** Online shopping.

**Primary Actor:** Customer.

**Pre-condition:**

1. User must have electricity and internet connection.
2. Website must be programmed to provide shopping items and their details for shopping.
3. The items must be available on the website.
4. The user details must be available to the website.

**Trigger:** To use online shopping website.

**Scenario:**

1. Citizen logs onto the website.
2. Citizen enters his/her username.
3. Citizen enters his/her password.
4. Website authenticates the username and password.
5. System allows the user to proceed to the main web-page.
6. User clicks on the “search box” and types the required item.
7. User clicks on the “search” button.
8. System displays the list of the available searched item.
9. User browsers the list.
10. User clicks on “View details” on the required item.
11. System displays the details of the selected item.
12. User clicks on the “Add to the Cart”.
13. System adds the item to the cart.
14. User clicks on the “Cart” icon to view the shopping cart list.
15. User clicks on the items in the “Shopping Cart” to update the cart.
16. System displays the final list.
17. User clicks on the “Order” to order the items in the “Shopping Cart”.
18. System displays the “Order status”.
19. User checks out by clicking “Ok” button.
20. System display the main web page.

**Exceptions:**

1. Loss of internet connections or electricity.

**Frequency of Use:** Anytime of the day.

**Channel to the Actors:** Website.

**Secondary Actors:** Web-administrator and Courier service.

**Channel to the secondary actors:** Website.

1. **Login:**

**Use Case of Log-in:**

**Use case Title:** login to the website.

**Primary Actor:** Users.

**Pre-condition:**

1. User must have electricity and internet connection.
2. Website must be programmed according to the given scenario.

**Trigger:** To access the website.

**Scenario:**

1. User logs onto the website.
2. System asks for User’s username and password (key).
3. User enters his/her username.
4. User enters his/her password (key).
5. Website authenticates the username and password (key).
6. System allows the user to proceed to the main web-page.

**Alternative flow of Events:**

1. On the invalid Username and Password, system gives three attempts for user to try again.

**Exceptions:**

1. Loss of electricity or Internet connection.
2. The Username or the password (key) is not registered.
3. The Password (key) must not exceed the limit of 4 characters.

**Frequency of Use:** Anytime of the day.

**Channel to the Actors:** Website.

**Secondary Actor:** Web-Administrator.

**Channel to the Secondary Actor:** Website.