

## Assignment 2 guide

### Session 1: A review of appreciate web design principles, standards and guidelines

- a. Good web design principles
  - alignment,
  - 80/20,
  - whitespace, colour/highlighting,
  - organisation and symmetry,
  - consistency,
- b. Web design Standards (<https://www.w3.org/standards/webdesign/>)
- c. Web design guideline (<https://www.nngroup.com/articles/113-design-guidelines-homepage-usability/>)  
  
<https://customerthink.com/top-website-design-and-development-guidelines-for-2019/>

### Session 2: Design document for online shopping website

#### 1 Create design document (P5)

##### 1.1 Client and user requirement analysis

###### a. Project Specification

BagBag.com is an online store for various types of Bags. They have collection of bags. Now they want to revamp their website with all the products listed on the website. Consumers should find it easy to view various products and decide upon purchasing the right product to meet their requirements.

A website needs to be designed to display various bags available with the store. Details of locations, feedback must be included.

The website is to be developed for the Windows Platform using HTML5, CSS, JavaScript and PHP. The site should work well in all leading browsers including Chrome, IE, Firefox etc.

###### b. Client: BagBag Store

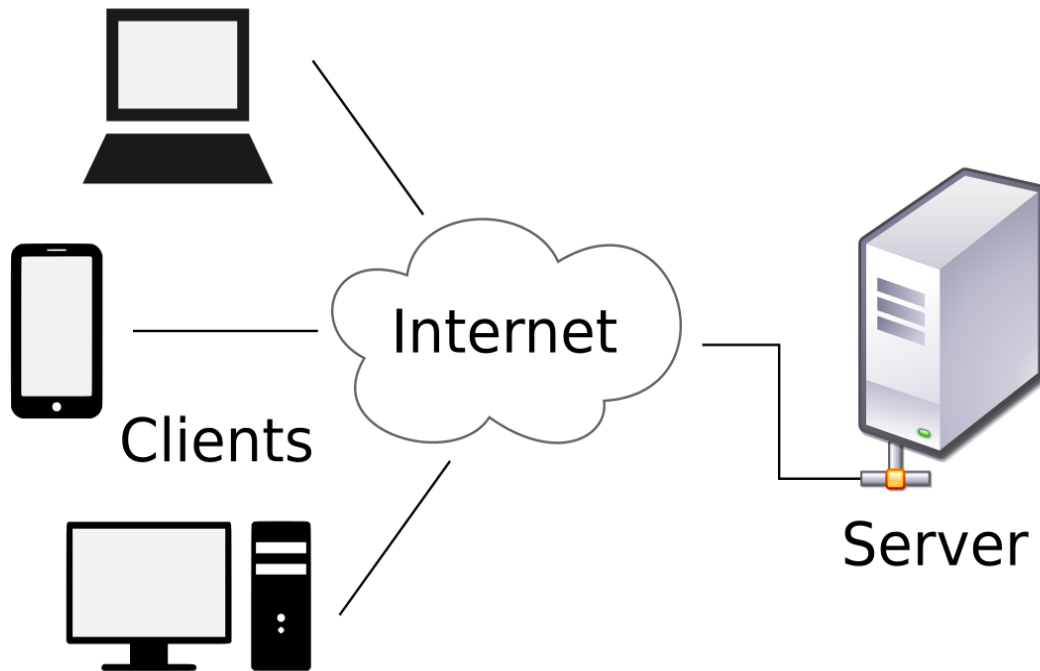
###### c. Input provide by the Client

- Input to the system
  - o Information about bag category: category name, Description.
  - o Information about Bag: name, price, quantity, description of product
  - o Information of customer: Username, password, fullname, email, tel, address.
  - o Information feedback: feedback's content, send date.
  - o Information about Store: About us, Customer care, Service, location,...

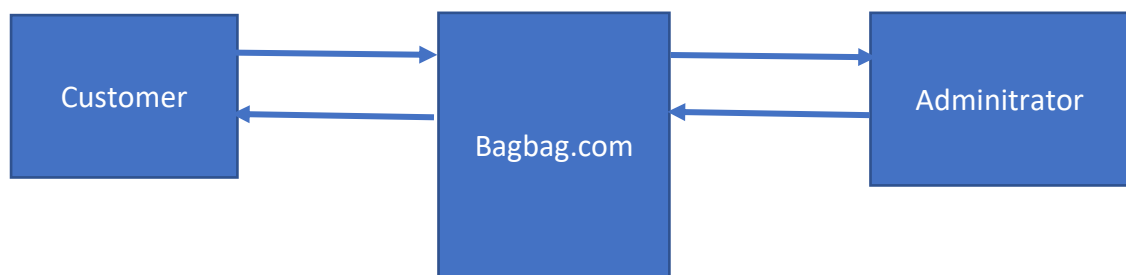
- .....
- Output from the system
  - List bag Category.
  - List all bags and bag detail.
  - Result of searching
  - .....
- Process involved in the system
  - Processing customer's registration.
  - Processing customer's login.
  - Adding, updating, deleting bag category.
  - Adding, updating, deleting bag.
  - .....
- d. Scope of the Work
  - Design a website for online shopping with multi pages with <Branch>).
  - Customers are Registered members of the site and log in to buy products.
  - Customer can send feedback for shop
  - For administrators, perform the following functions:
    - + Add, edit and delete products.
    - + Add, edit and delete product categories
  - .....
- e. Customer Acceptance Criteria

S. No	Customer's Acceptance Criteria
1.	The Home Page should be created making use of Sections with a suitable logo, the header section can be added which will show images of various Bags.
2.	The site must contain the links to navigate through various types of Bags, BackPacks etc
3.	Site should have different section for Men and Women and bags should be placed accordingly
4.	Links of bags must be categorized like (Bags, Sling Bags, BackPacks etc.)
5.	Specification and Pricing of Bags should be added along with the images
6.	Customer can register member of store and then can login the website
7.	Customer can send feedback for store
8.	Administrators can perform the following functions: Add, edit and delete products
9.	Administrators can perform the following functions: Add, edit and delete product categories
	...
	...

## 1.2 Architecture of the Application

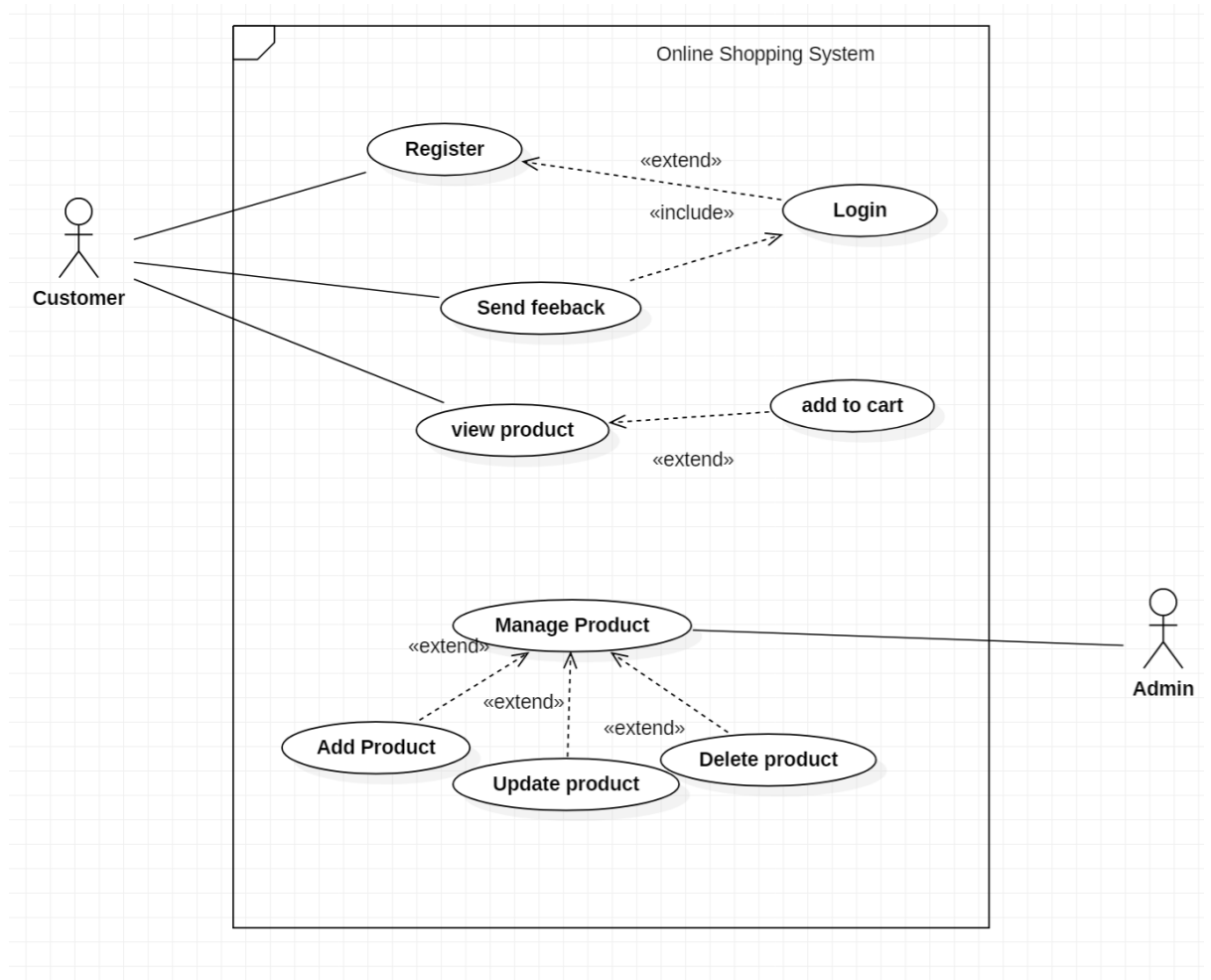


## 1.3 Data Flow Diagram



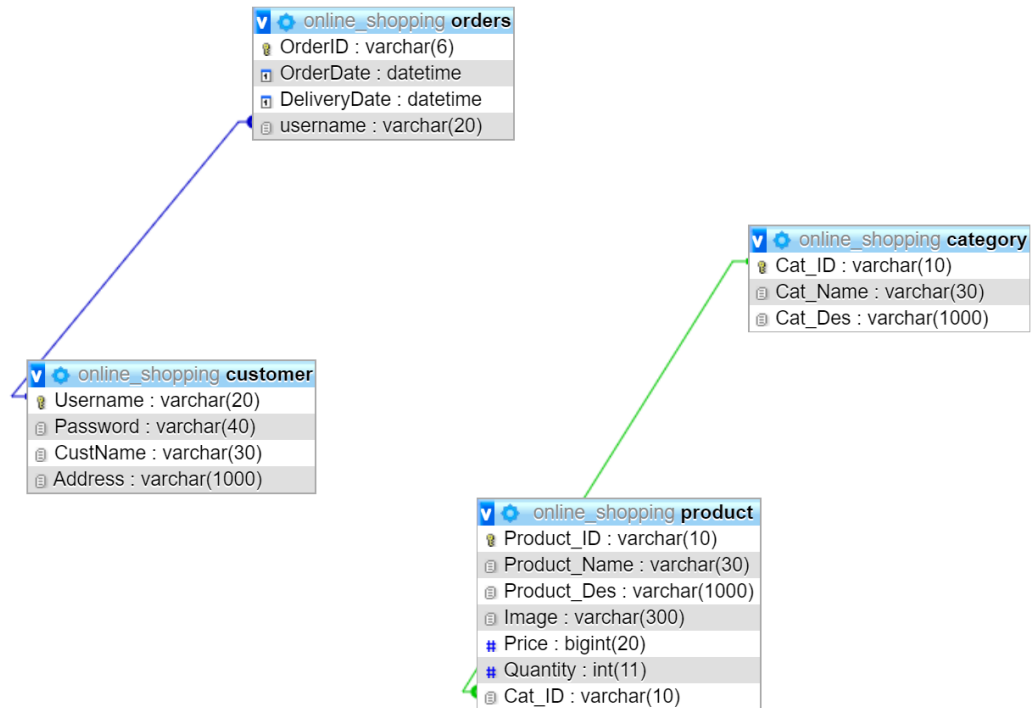
LEVEL 0 DFD

## 1.4 Use case diagram

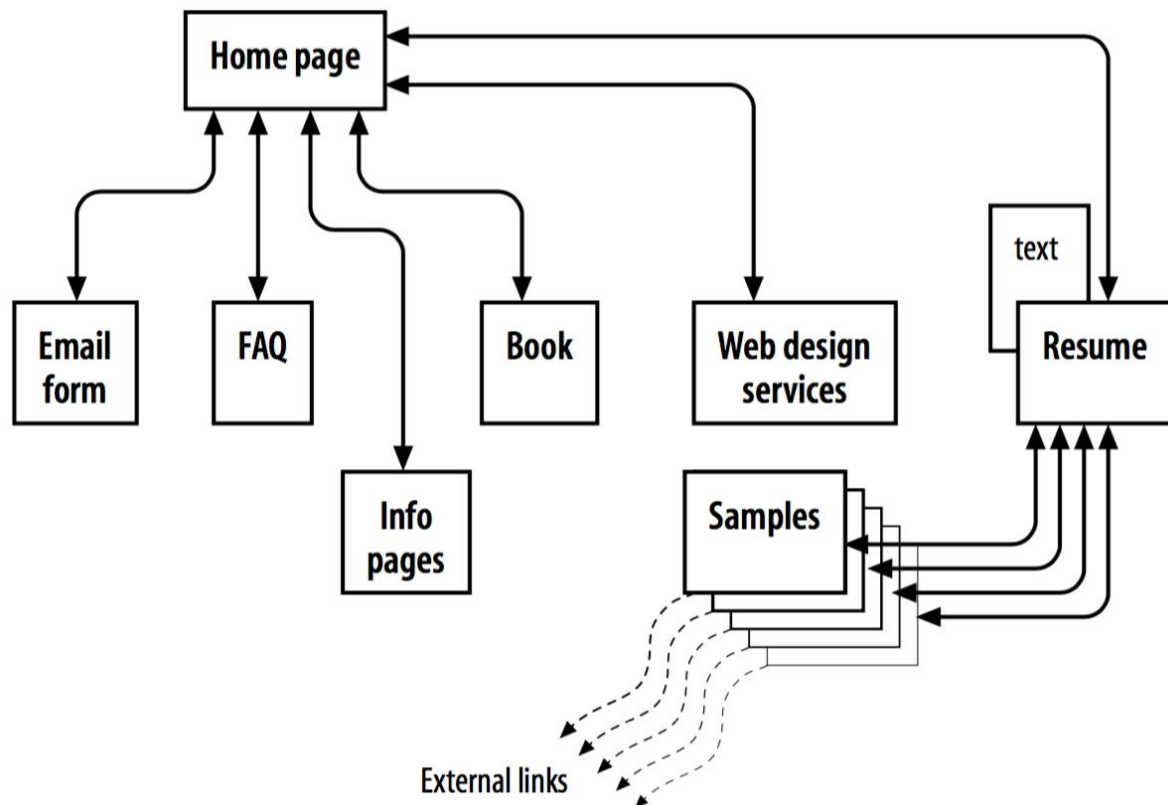


## 1.5 Database diagram

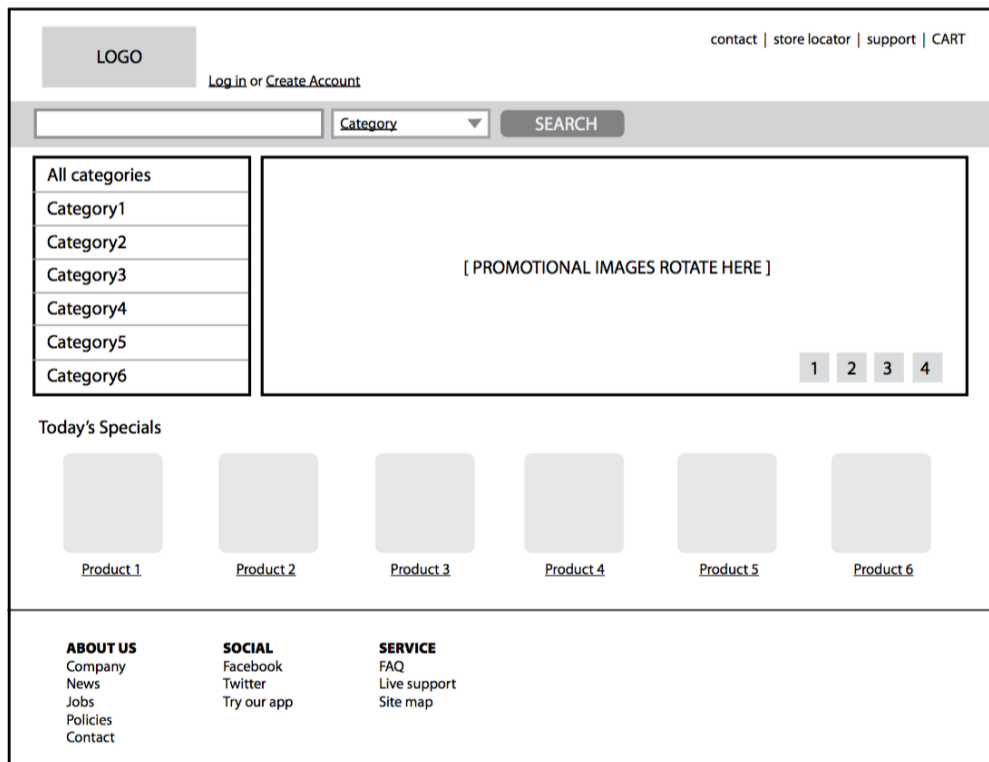
This is sample



## 1.6 Site map



## 1.7 Wire frames and specific explanation



## Session 3: Implementation of website design

### 2 Website implementation

#### 2.1 Functional screen shot after implementation (P6)

- Functional screen shot of multipage website
- Detailed explanation of functions in multipage website
- Include some screenshots related to error handling (ex: popup message for deletion confirmation)

#### 2.2 Compare and contrast the multipage website created to the design document. (M4)

- Include the similar wireframes & web screenshots for comparison. Clarify the similarities and differences between them.

#### 2.3 Critically evaluate the design and development process against your design document and analyse any technical challenges (D2)

- Evaluate the design document, evaluate development process, show any differences between them
- Show the technical challenges/difficulties in web development with evidences & explanation (ex: product order,...)

## Section 4: Test plan and test evaluation

### 3 Create a suitable Test Plan

#### 3.1 Test plan (P7)

Creator:

Date:

No	Test case	Function	Testing data	Expected output	Actual output	Evaluation
1		Test link home	-	-		
2		Login	-	-		
3		Register		-		
	.....					

### 3.2 Evaluate the Quality Assurance (QA) process and review how it was implemented during your design and development stages (M5)

#### - Present about QA, steps in QA

**Quality Assurance (QA)** is defined as an activity to ensure that an organization is providing the best possible product or service to customers. QA focuses on improving the processes to deliver Quality Products to the customer. An organization has to ensure, that processes are efficient and effective as per the quality standards defined for software products. Quality Assurance is popularly known as QA Testing (Gugu99: <https://www.guru99.com/all-about-quality-assurance.html>)

#### QA process

- Review of requirements:
- Test planning / writing test cases
- Unit testing
- Integration testing
- System testing
- Performance testing: This non-functional testing process is used to determine the various aspects of the performance of the products depending upon the workload.
- Security testing: This is a type of non-functional testing where the testing is done to ensure the security and login systems of the products.
- Cross-browser testing / cross-platform testing
- Updating test cases
- Regression testing

(<https://apphawks.com/blog/qa-process-a-compact-guide>)

- Clarify which steps he/she had applied in his/her web development with evidences

### 3.3 Test result evaluation and suggestion of improvements (D3)

- Test result evaluation, review overall success of multipage website
- Provide justified recommendations of improvements
- Show the advantages, disadvantages of his/her web project