Requirement Analysis

*All requirement analysis needs to be done before 10th Feb, information can be taken from the 1. Coursework sheet, 2. Interviewing, 3. Statistical analysis, 4. Case-study.*

*The User Requirements need to be targeted first, then specifying details in The System Requirement.*

***Functional requirements***

*Identify functionalities which are essential and considerable for the system*

User requirements: The system allows addition of items to a virtual shopping bag.

System requirement:

Name, price, quantity of the items must be shown.

Showing availability of the item, if not available now, where and when will it be available.

“Remove” button used to remove any unwanted items.

Provide checkbox to select items for check-out.

Delivery, and add address

Tracking package

Giving some recommendations. Eg. Something is appropriate for this season.

Proper classification

Good searching system Like alphabet

Privacy Policy from the company should be allowed to read and check from the user

Clients may check or read the Product Quality Assurance if they have to

**User Requirement:** Order other sizes of the item from other stores or from the online shop.

**System Requirements:**

* + - 1. If the stock of a particular item with a specific size chosen by the user on the user interface shows zero, a list of links will be shown to direct the user to the nearest shops which have the item in stock. (from the top of the list to the bottom, distances of the shops are in an ascending order)
      2. A ‘cancel’ bottom should be added to the link interface, as the user might not want to purchase the item anymore.
      3. Every item chosen from another shop shall be added to the original virtual shopping bag of the shop which the user is currently in. If buying online, nothing needs to be modified for this part.
      4. On the payment page of items, ‘collect items by delivery’ and ‘collect items by going to the shop’ options should be added.

3.

User Requirement: The system will be able to check the inventory status for that item in the store which

**User Requirement:** The system can help users to checkout and pay for their purchase through a connection to an online payment service.

**System Requirements:**

1) Various buttons for payment methods should be provided, including links to a third-party payment service (PayPal, Alipay, Apple Pay etc) and bank account.

2) A secure payment system shall be built. Only authorized users are allowed to access the system directly.

3) Money received from users should be managed by ???

4) After items are purchased, the DBMS for the shop should be updated accordingly.

3.

**User Requirement:** Store employees can manage information about stock availability in different stores through an inventory system.

**System requirements:**

1) The system should be built as a DBMS to store information (QR codes, name, size, price, number in stock etc) for all products and the nearest shops in which items are available, as well as information for employees.

2) A user interface should be built for store employees. The interface should include functions that are stated on the task sheet.

3) An authorizing method should be implemented for the user interface. Users can only access the system by proving an employee ID and password associated with it.

***Non-functional requirements***

*Identify quality and maintenance requirement for the system.*

1.

User requirement: The system must be working properly during busy trading hours.

System requirement:

Handling with every bill in order, or following the sequence

Sending the waiting-time message and queue no. to the users.

Updating the availability of the items or commodities timely.

Enabling the users to receive a reminding message if this bill has been tackled.

All points I mentioned is just to avoid computer crashes, so it’s not complete.

Add any kinds of the entertainments for the user during waiting in the line. E.g. Advertisement

Reduce any unnecessary data processing to release the service e.g. Users date or products information

If possible, location services may be used to enable customers to shop or view the system in different regional servers

1. **System**

1) A DBMS built for managing all the information. (details?)

2) Backup system for the DBMS.

1. **Product**

1) Replacement.

2) Delivery efficiency.

**4. Organization**

1) Maintainable codes.

2) Changing code structures according to the size of the system.

**5. External**

1) No sexist, racist, religious discrimination, violent, sexual contents showing in the system and interfaces.

2) Only registered and legal products can be put on the system.

***Domain requirements***

*Identify standards and requirements which are specifically important to the clothing industry.*

1.

User requirement: The system might provide multiple size standards.

System requirement:

Conversion between ??? standard to ### standard should be available.

Ect.