

Software Engineering

T.E – B

Unit 2

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Functional and Non Functional Requirements for E-Commerce System:

Functional Requirements for E-commerce system-

1. Login/ Registration

Customers can register using a valid email id. Only one account can be created with an associated email id.

Using the UID and password, customers can login. If someone forgets password, OTP can be generated and sent on registered email ID and mobile number.

2. Adding Items to cart

Customer can add items from various sections to the cart. They can add maximum 25 items to cart at one time.

3. Adding items to wish list

Customers can add atleast 1000 items to wish list. They can also create sub groups within their wish list. Wish list can also be shared thru whatsapp/ email to other friends.

4. Payment of Bill

Customers can pay via various payment modes like the e-wallets – Paytm, GooglePay, Debit cards, Credit cards. For particular items they can also pay via cash on delivery. If the amount of bill is lesser than 500 rupees, delivery charges would be added to the bill. For orders above 500, the delivery charges would be NIL.

5. Adding feedback

Customers can give feedback to the items bought using images/videos and textual description.

Non-Functional Requirements for E-commerce system-

1. Security:

For Data encryption, the application would be using a Caesar's cipher model.

2. Availability:

Application will be available thru multiple platforms like the Desktops, Mobile phones and Laptops. It shall also be available 24*7.

3. Compatibility:

The application shall be compatible with all older versions of windows, Mac operating systems. It shall also be compatible with older versions of Chrome browsers.

4. Recovery:

The application shall have its entire data backup in 2 servers. Backup shall be taken every day mid night. Hence users can be relieved about the data being lost or corrupted.

5. Scalability:

The application shall be able to scale itself up to 1 lakh customers at the same time.

Take away from Unit 2:

1. What is DFD? State uses of it.
2. Draw a DFD Level 0 and Level 1 for Library Management System.
3. Draw a DFD Level 0 and Level 1 for Airline Management System.
4. Write 5 functional and 5 Non Functional requirements for an E-commerce System.
5. Write 5 functional and 5 Non Functional requirements for a Tourism Application.