Fall 2020 Mid-Term Assignment

Course Name	Max. Marks	Max Duration	Date	Instructor
Software Requirement Specification	30	6 Days	13/4/2020	Aasma Khan

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Semester 7th Bs SE

- **Attempt all questions.**
- **Marks will be given as per the DEPTH of the answer, not LENGTH.**

Question No: 01   **(15*1=15)**

MCQs

1. **Which of the following is correct for the types of requirements?**
   A. Reliability
   B. Availability
   C. Usability
   D. All of the above
2. **2. Select the developer-specific requirement?**
   A. Availability
   B. Portability
   C. Usability
   D. Maintainability
   E. Both B & D
3. **The following is not a step of requirement engineering?**
   A. design
   B. elicitation
   C. documentation
   D. analysis

4. **Symbolic representation of QFD is**…
   A. quality function development
   B. quality function deployment
   C. quality function design
   D. none of the mentioned
5. **What are the system requirement of the documents..?**
   A. SRS
   B. SDD
   C. SRD
   D. DDD
6. **The most important stakeholder is_____:**
   A. Middle-level stakeholder
   B. Entry level personnel
   C. Users of the software
   D. Managers
7. **Which of these steps is includes in the Requirement engineering process…**
   A. Requirement Gathering
   B. Feasibility study
   C. Validation
   D. Both A & B
8. **In the elicitation process, the developers discuss with the client and end users and know their expectations for the software.**
   A. Organizing requirements
   B. Requirement gathering
   C. Negotiation & discussion
   D. Documentation
9. **The process to gather the software requirements from the client, analyze and document them is known as…..**
   A. Software system analyst
   B. User interface requirements
   C. Requirement elicitation process
   D. Requirement engineering process
10. **The interviews held between two persons across the table is**..
    A. Written
    B. Non-structured
    C. One-to-one
    D. Group

11.**The computer-based system can have a profound effect on the design that is chosen and also the implementation approach will be applied.**
A. Behavioural elements
   B. Flow-oriented elements
   C. Scenario-based elements
   D. Class-based elements

12.**Information systems is concerned with..**

A. Systems where software is used as a controller in some broader hardware system

B. Processing information which is held in some database.
C. Combination of A and B
D. None

13. **Embedded systems is concerned with..**

A. Systems where software is used as a controller in some broader hardware system
B. Processing information which is held in some database.
C. Combination of A and B
D. None

14. **Command and control systems is concerned with..**

A. Systems where software is used as a controller in some broader hardware system
B. Processing information which is held in some database.
C. Combination of A and B
D. None

15. **The requirements document describes:**

A. The services and functions which the system should provide

B. The constraints under which the system must operate

C. Overall properties of the system i.e.. constraints on the system's emergent properties

D. All of the above

Question No: 02   (5)

State what the project you have selected for your SRS document is required to do and the constraints under which it is required to operate

Ans :The Online Fashion Store (OFS) web application is intended to provide complete solutions for vendors as well as customers through a single gateway using the internet as the sole medium. It will enable vendors to setup online fashion shops (garments, accessories etc.), customer to browse through the shop and purchase them online without having to visit the shop physically. The administration module will enable a system administrator to approve and reject requests for new shops and maintain various lists of shop category

This document is meant to discuss the features of OFS, so as to serve as a guide to the developers on one hand and a software validation document for the prospective client on the other.

Constraints

1) There is no maintainability of back up so availability will get affected.

Question No: 03   **(10)**

With respect to the project you have selected for your SRS document, write a two to three (2-3) page paper in which you:

1.Create a Software Requirement Specification (SRS) that includes the following:

A. A detailed description of both user and system requirements. At least four (4) user requirements and four (4) system requirements should be provided.

B.

C. A detailed description of both functional and non-functional requirements. At least four (4) functional requirements and four (4) non-functional requirements should be provided.

2.Develop a use case diagram to summarize the functional requirements of the system through the use of Microsoft Visio or its open source alternative.

Q3:part 1:

Introduction
Purpose

The Online Fashion Store (OFS) web application is intended to provide complete solutions for vendors as well as customers through a single gateway using the internet as the sole medium. It will enable vendors to setup online fashion shops (garments, accessories etc.), customer to browse through the shop and purchase them online without having to visit the shop physically. The administration module will enable a system administrator to approve and reject requests for new shops and maintain various lists of shop category

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Scope

Initial functional requirements will be: -

- Adequate searching mechanisms for easy and quick access to particular products and services.

- Creating a Shopping cart so that customers can shop 'n' no. of items and checkout finally with the entire shopping carts. Customers can add or delete items in the cart.

- Regular updates to registered customers of the OFS about new arrivals.

- Uploading 'Most Purchased' Items in each category of products in the Shop.

- Strategic data and graphs for Administrators and Shop owners about the items that are popular in each category and age group.

- Maintaining database of regular customers of different needs.

- Shop employees are responsible for internal affairs like processing orders, assure home delivery, getting customer's delivery-time feedback, updating order's status and answering client's queries online.

- Feedback mechanism, so that customers can give feedback for the product or service which they have purchased. Also facility rating of individual products by relevant customers.

Initial non functional requirements will be:

- 24 X 7 availability

- Better component design to get better performance at peak time

- In addition to the above mentioned points, the following are planned to be delivered if deemed necessary:

- Warehousing within the very ambits of the project

- More payment gateways.

- Dynamic price model by which prices can be changed based on demand and supply

- Each customer can build a "scrapbook", where they can have a collection of garments and accessories to create a specific look basing on inbuilt templates. The scrapbook created will be visible to other users who can like and/or comment on the style.

1.3 Audience Definitions, Acronyms and Abbreviations

1.3.1 Audience Definitions

The intended readers of this document are the developers of the site, testers, website owners, managers and coordinators.

1.3.2 Acronyms and Abbreviations

Acronym	Meaning
OFS	Online Fashion Store
JAVA EE	Java Enterprise Edition 5
HTTP	Hypertext Transfer Protocol
HTTPS	Secure Hypertext Transfer Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol

Q3:part1:(B):

Functional Requirement

1. Administrator:

- **Database Management:** Control the database and keep track of all records of customers and employee details.

- **Contact and Giving Permission to Vendors:** Contact with the vendors and give permission to sell their product under the site after testing the product's quality.

- **View all details:** View the details of all employees and control the whole site.

- **Advertising the Site:** Responsible for making advertisements for the site.

2. Customers:

- **Login:** Customers must have a valid login id to enter into the site.

- **Registration:** New users can sign up by creating new ID.

- **View and edit Own Details:** Can view/edit his personal details, payment details, anddetails about services provided.

- **Choosing and comparing products:** Can view all available products and can compare them and make a choice for purchasing products.

- **Purchasing:** Can purchase any product through valid credit card.

- **Giving Feedback to Customer Care:** Can give feedback to the 24X7 Customer Care Service center about their impression for the site and services.

- **Logout:** Customer must logoutof the site after purchasing products.

3. Visitors:

- **Visiting the Site:** Can only visit the site without registration.
- **Register**

4. Shop Owner:

- **Taking Permission from Administrator:** Vendors must take permission from the Administrator for selling their products under the site. Administrator will test product's quality according to its market price to permit vendor for selling purpose.

- **Consulting with Administrator:** Can consult with the Administrator regarding product's quality and advertisements.

- **Advertising Vendor's Own Products:** Responsible for making advertisements of his products, but the site will not be responsible for any kind of advertisements about products.

Non-functional Requirements

- **Performance Requirements**
  - The system shall accommodate high number of items and users without any fault.
  - Responses to view information shall take no longer than 5 seconds to appear on the screen.
-
   Safety Requirements
   - System use shall not cause any harm to human users.

   Security Requirements
   - System will use secured database
   - Normal users can just read information but they cannot edit or modify anything except their personal and some other information.
   - System will have different types of users and every user has access constraints.

- **Error handling**
- OFS shall handle expected and non expected errors in ways that prevent loss in information and long downtime period.

Good Luck ☺