Answer sheet of Software requirement and specification

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Question # 1 ➔

1. Which of the following is correct for the types of requirements?
A. Reliability
B. Availability
C. Usability
D. All of the above

Answer : D. All of the above

2. Select the developer-specific requirement?
A. Availability
B. Portability
C. Usability
D. Maintainability
E. Both B & D

Answer : E. Both B & D

3. The following is not a step of requirement engineering?
A. design
B. elicitation
C. documentation
D. analysis

Answer : A. design

4. Symbolic representation of QFD is…
A. quality function development
B. quality function deployment
C. quality function design
D. none of the mentioned

Answer *:* B. quality function deployment

5. **What are the system requirement of the documents..?**
   A. SRS
   B. SDD
   C. SRD
   D. DDD

Answer *:* A. SRS

6. **The most important stakeholder is_____:**
   A. Middle-level stakeholder
   B. Entry level personnel
   C. Users of the software
   D. Managers

Answer *:* C. Users of the software

7. **Which of these steps is includes in the Requirement engineering process…**
   A. Requirement Gathering
   B. Feasibility study
   C. Validation
   D. Both A & B

Answer *:* 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

Answer *:* B. Requirement gathering

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

Answer : C. Requirement elicitation process

10. The interviews held between two persons across the table is..

A. Written

B. Non-structured

C. One-to-one

D. Group

Answer : A. Written

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

Answer : A. Behavioural 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

Answer : B Processing information which is held in some database.

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

Answer : C . Combination of A and B

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

Answer *: A* Systems where software is used as a controller in some broader hardware system

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

Answer *: D* All of the above

Note *:* respected ma'am mine and my classmate whose name is Shoaib Rehman (id 14293) has the same SRS documents

Question No : 0 2 ➔   **(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

Answer   : I have selected <u>FTP web portal</u> project for SRS document.

Introduction of FTP (file Transfer Protocol)

FTP is a way to transfer files online. You might think of the sites you visit in your browser as "the internet," but your browser only uses one protocol: HTTP. There are many others protocols that, collectively, make up the internet. IMAP and POP, for instance, are two protocols that email clients use to send and receive messages. XMPP is a protocol used to send and receive instant messages. FTP is another such protocol.

There are some constraints under which it is required to operate.

- First we have login form for both teachers and students .
- Teachers can create their own account
- Student can create their own account
- After the creation of account we have login form which both can access to their panel.
- Teachers panel   : the teachers can upload their lectures to students moreover, teachers can contact with students to inform them.
- Students panel   : students   can download the lectures which has been uploaded by the teachers as well as the students can chat with their teaches for solving their problems .
- There is <u>one online quiz</u> system which the teachers can take online quiz from the students which the time will by specify .
- Another feature which is going to reform is Assignment , teacher can upload their assignment to the students and students will download and solve it at home at the end students will upload to the teachers to whom assignment is related .
- <u>FTP</u> functions on a client-server model. The server hosts the files to be shared and the client provides the interface to access, download, or upload files to the file server. The computers transferring the files can be within the same network

where the FTP server is configured, as well as outside the network (over the Internet). FTP uses two ports, one for connection and one for sending data.

- FTP can run in two modes: active and passive. And, it uses two channels between the client and server: the command channel and the data channel. The command channel is for sending the commands and responses, and the data channel is for sending the actual data. As for the active and passive modes, in the active mode, the

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. 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.

Answer :

- _User requirements :_ according to my project user requirements are given bellow

  a) *Teachers and students must create registration form .*
  b) *Teachers and students must login their selves to the panel .*
  c) *Teacher can upload their lectures to ftp web portal .*
  d) *Students can download lectures which are uploaded by the teachers .*

e) *Teachers and students can chat with each other if they have some questions.*

- *System requirement :*
  a) System need a network for uploading or downloading files
  b) System protect teachers and students records .
  c) System provide facility to interact students and teachers problems .
  d) System need correct username and password to do something inside ftp web portal.

Functional requirements
- Sign in option
- Uploading
- Downloading
- Chatting
- Assignment
- Online quiz system

Non-functional requirements

  - Gui (graphical user interface)
  - Students never allowed to upload lectures
  - Students cannot delete teacher or other student from the system
  - Constraints of the system
  - Usability
  - Security

Use case diagram

Student

Techaer

login

login

student panel

teacher panel

download lectures

upload lecture and assignment

Chatting

have a quiz

take quiz

store data