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Question No: 01

MCQs

- 1. Which of the following is correct for the types of requirements?**
 - Reliability
 - Availability
 - Usability
 - D. All of the above**
- 2. Select the developer-specific requirement?**
 - Availability
 - Portability
 - Usability
 - Maintainability
 - E. Both B & D**
- 3. The following is not a step of requirement engineering?**
 - A. design**
 - elicitation
 - documentation
 - analysis
- 4. Symbolic representation of QFD is...**
 - quality function development
 - B. quality function deployment**
 - quality function design
 - none of the mentioned
- 5. What are the system requirement of the documents..?**
 - A. SRS**
 - SDD
 - SRD
 - DDD
- 6. The most important stakeholder is_____:**
 - Middle-level stakeholder
 - Entry level personnel
 - C. Users of the software**
 - Managers
- 7. Which of these steps is includes in the Requirement engineering process...**
 - 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

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 "school management system" for my srs document.

Features:

Student:

- Student will able to login to system.
- Student will able to download lectures and assignment from system.
- Student will be able to upload assignment to system.
- Student will be able to view and print grade report.
- Student will be able to view the available courses.

Teacher :

- Teacher will able to login to system.
- Teacher will able to grade student's exam.
- Teacher will be able to upload assignment with their time dues.
- Teacher will able to upload lectures.

Admin:

- The admin will be able to login to the system.
- Admin will be able to create user login for teacher/student.

- Admin will be able to add courses.
- Admin will be able to delete courses .
- Admin will be able to assign teacher to courses.

Constrain:

There will be some constrain under which it operate:

- There will be only one administrator.
- The delete operation is available only to the administrator.
- To reduce the complexity of the system, there is no check on delete operation. Hence administrator should be very careful before deletion any record and he/she will be responsible for data consistency.
- There should use laravel framework version 1.5.

Question No: 03

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:

- Teacher and student must login their selves to the system.
- Teacher can upload their lectures and assignment.
- Students can download lectures and assignments.
- Student can print their grade.
- Student can view their result.

System requirement:

- System protect the record of student and student.
- System need a network for uploading or downloading files.
- System need correct username and password to login.
- System provide facility to interact student and teacher problems.

Functional requirements:

- 1) Login option for student, teacher and admin.
- 2) Uploading.
- 3) Assignment of students.
- 4) Downloading.
- 5) Viewing result.
- 6) Printing result.

Non-functional requirement:

1) Availability:

The system should be available 24 hours per 6 days.

2) Security:

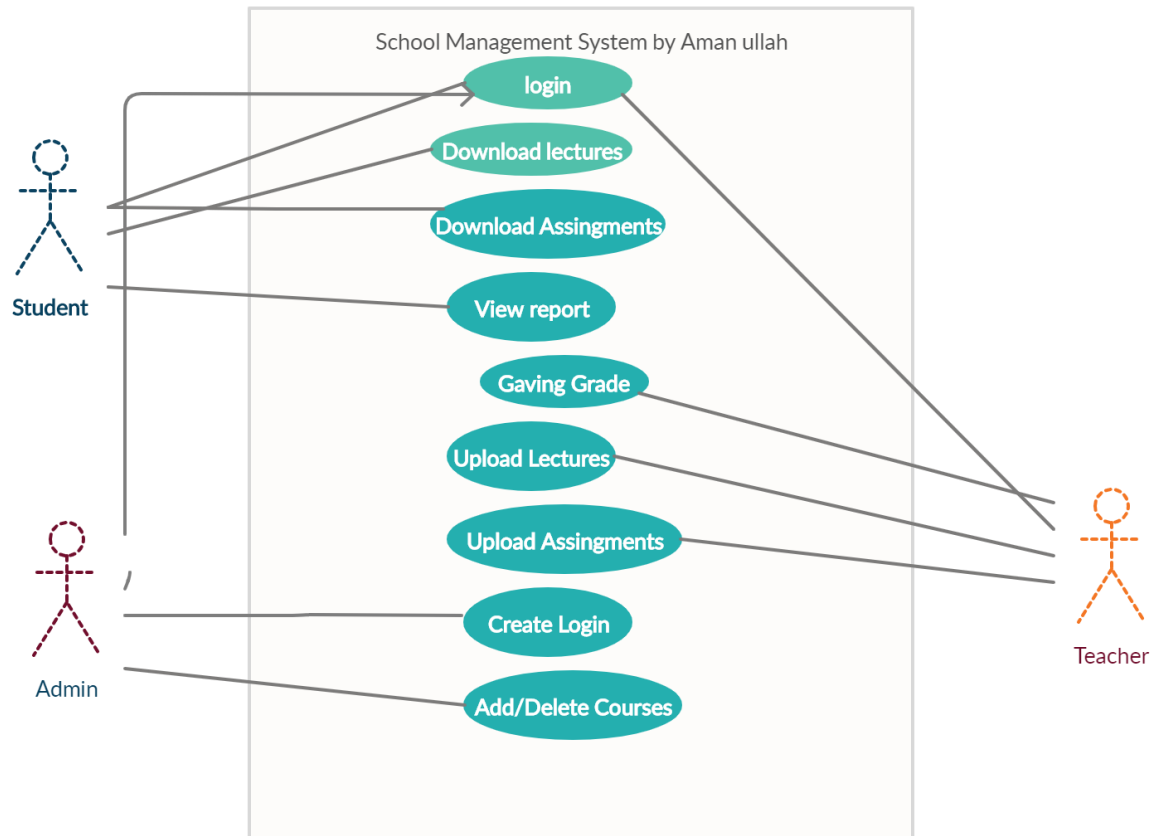
The system should encrypt user password by using AES-256 encryption system.

3) Usability:

The user should learn how to use the system at most in 2 hours.

- 4) Student never allow to upload lectures.
- 5) Students will be never allowed to delete teachers or other students.

Functional Requirement of the system/ Use case diagram:



THE END