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Question No: 01

MCQs

1. **Which of the following is correct for the types of requirements?**

   D. All of the above
2. **2. Select the developer-specific requirement?**

   E. Both B & D
3. **The following is not a step of requirement engineering?**
   A. design

4. **Symbolic representation of QFD is**…

   B. quality function deployment

5. **What are the system requirement of the documents..?**
   A. SRS

6. **The most important stakeholder is_____:**

   C. Users of the software

7. **Which of these steps is includes in the Requirement engineering process…**

   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.**

   B. Requirement gathering

9. **The process to gather the software requirements from the client, analyze and document them is known as…..**

   D. Requirement engineering process

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

    C. One-to-one

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

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

  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

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

  B. Combination of A and B

15. **The requirements document describes:**

  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

ANSWER

The project that I have selected is Collage Management system. The main objective of our product is to maintain information about students, employees and other activities like attendance, student marks, fee payment, and salary payment, etc. The information is stored for decision making in the future for a business process within an organization. This is a web application.

This document describes the software requirements specification (SRS) for the Collage Management System that provides the access and management of information of different modules in a collage-like Students, Guardians, Teachers/Faculty, Finance, Examination. Our project is based on a database, which stores and maintains the information of different modules within the system. The advantage of the management system is to avoid entries in hard copies and it saves the burden of hard copies of data. The system is a Desktop Application and GUI for this system is developed in php. The Database for this

management system is created in Mysql. There are two users for this system 1. Admin (have full access to read and write of all modules in management system) 2. Teacher (have access limited to write and manage the student's marks, attendance, etc.).

This document describes the details of our product, its parameter, and its goals. This SRS document describes the target, audience, user interface of product and Software/Hardware requirements of our product. The management system saves the human power and time cost to perform the same task. The data in the database can be saved for a long time and can be used for different purposes in the future. In management systems, there is a minor chance of losing the data.

Constraints

The following are the constraints under which it is required to operate:

- Student can not change his /her ID.
- Student can not change his/her attendance.
- Student can not change his /her time table or date sheet.
- After uploading attendance or result teacher can not change the result or attendance

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. \
   ANSWER
   ## User Requirements
   User Requirements refers to as a user need it describes what the user does with the system. such as what activities that user must be able to perform.
   User requirements are as follow:
   - Manages Faculty
   - Manages Students
   - Manages Administrations
   - Manages Accounts
   ## System Requirements
   System requirements are the building blocks developers use to build the system. These are the traditional "shall" statements that describe what the system "shall do." System requirements are classified as either functional or supplemental requirements. A functional requirement specifies something that a user needs to perform their work.
   System requirements are as follow:
   - System requirements as a student:

- ➢ Take admission
- ➢ Assign roll no
- ➢ Assign Classes
- ➢ Assign subjects
- ➢ Assign time table

- **System requirements as a facility:**
  - ➢ ID assign
  - ➢ Class assign

- **System requirements as a administration:**
  - ➢ Manages student record
  - ➢ Manages facility records
  - ➢ Manages events
  - ➢ Manages students exams and reports

- **System requirements as accounts:**
  - ➢ Manages student fees
  - ➢ Manages facility and staff payments
  - ➢ Manages other expenses

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.

Functional requirements

Functional requirements are product features or functions that developers must implement to enable users to accomplish their tasks. So, it's important to make them clear both for the development team and the stakeholders. Generally, functional requirements describe system behaviour under specific conditions

The functional requirements of this system are:

- Register new students.
- Record the attendance of students.
- Record the internal marks of students.
- Record the feed details of students.
- Register a new teacher/employee.
- Register a new user for the system.
- Record the salary details of employees.
- Record the course details and subject information.
- Record the scholarship details and information.
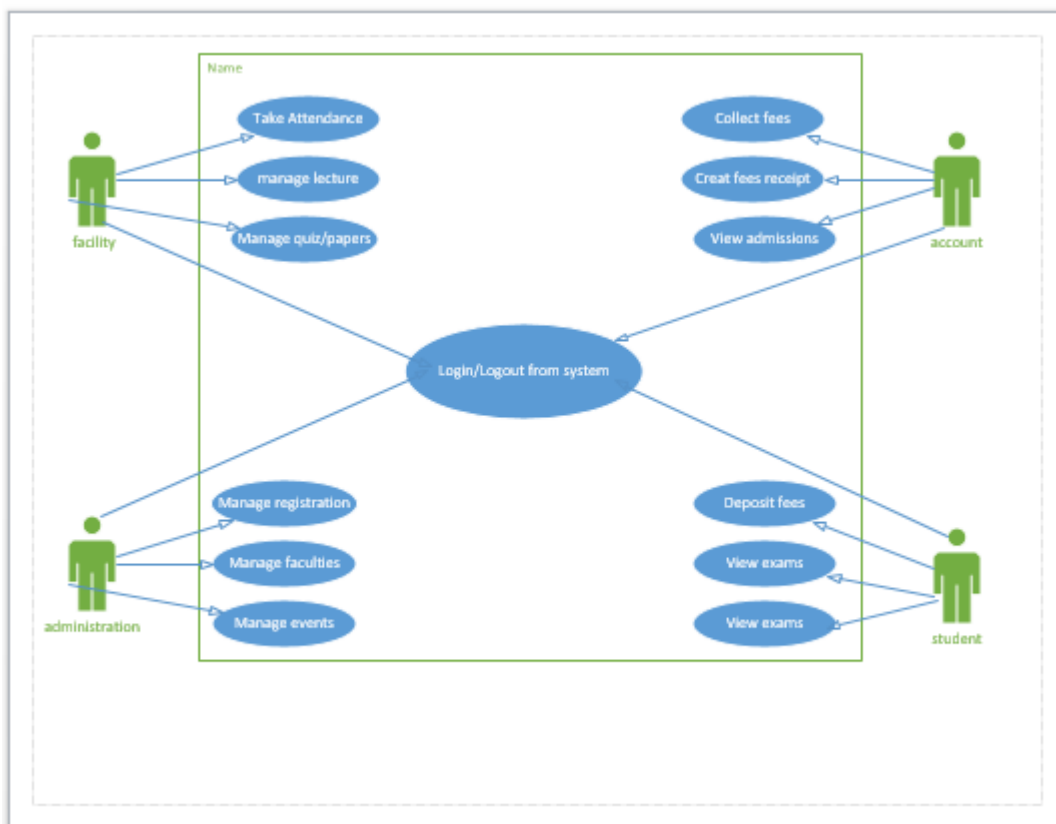- Generate various reports for all transactions in the system.

Non Functional requirements

In this system, the authentication of the user is an important factor. In this system, user authentication will be done by login by user name and password and classified by user type. Users will get access to the system as permissions are classified for that type of user.

The non functional requirements of this system are:

- Security
- Stability
- Safety
- Quality
- Efficiency Accessibility
- Accuracy
- Accessibility etc

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.

Thank you ☺