**Report No.3: Software Requirements Specifications (SRS)**

|  |
| --- |
| Project Success Criteria |
| * Total project cost does not exceed 15% of the initial budget. * The actual delivery schedule is within 100 percent of the initial deadline. * All high-priority functionality defined in the requirements specification is delivered in the first release. * The estimated number of residual defects does not exceed 3 per function point. * All unauthorized network intrusions are intercepted, prevented, logged, and reported. * Prerelease development rework does not exceed 15 percent of total development effort. |

# 3.1. User Requirement Specification

## 3.1.1 Functional Requirement:

The website include 8 sites, each of site will have modules in proportion to features of the system:

|  |  |  |
| --- | --- | --- |
| Function | Code | Content |
| 1. Homepage |  | This is a site which users access first, it include links to other site of the system, some of main features and, news. |
| 1.1 Login |  | Users need login with their accounts to use some of features of the website. |
| 1.2 Link to other sites of the system |  | Homepage site will have menu bar include links to other sites of the system |
| 1.3 Hot topics |  | Hot news will be showed at special position. |
| 2. Theories |  | User can study content of theory by video and text. |
|  |  |  |
| 3. Exercises |  |  |
| 4. Self-study exams |  | The site includes exams which are created by admin, user can choose following a subject to test. |
| 5. Forum |  | The site is place which members can discuss problems about learning. |
| 6. Member |  | The site will show information of member. |

## 3.1.2 Non-functional Requirement:

# 3.2. System Requirement Specification (Specific Requirements)

## 3.2.1. External Interface Requirements

**3.2.1.1. User Interfaces**

A user behavior pane will be available in all workflow scenarios to allow easy access to online help and next-step options. The navigation options in every screen will be similar to lower or eliminate the system learning curve. Input confirmation and error notification will be consistent throughout the application.

**3.2.1.2. Hardware Interfaces**

- Common peripheral devices:

* ADSL (or wireless) modem and cable internet
* Mouse
* Keyboard

- Required (minimum) specifications:

* CPU: Intel® Pentium® 4 2.4 GHz or better supported
* RAM: 512MB (768MB for Windows 7)
* Hard Drive: 2GB of free space

- Recommended specifications:

* CPU: 2.4 GHz dual core or better supported
* RAM: 1GB for XP, 2GB for Windows 7
* Hard Drive: 2GB of free space

**3.2.1.3. Software Interfaces**

“E-Learning” system can run on any platform/operating system (includes Windows, Mac OS, Linux). That support browsers listed below:

* Firefox (3.0 or higher)
* Google chrome (9.0 or higher)
* Internet Explorer (7.0 or higher)

**3.2.1.4. Communications Protocol**

The system will require communication via the Hyper Text Transfer Protocol (HTTP) to complete interactions based services with client computers. “E-Learning” system also requires a web browser to function. The Web Browser must comply with standards for HTTP version 1.0 or 1.1 HTTP version 1.0 is a well-founded and highly supported protocol. Now considering legacy by some organizations, we believe this is a safe foundation for the system.

The system also indirectly requires some network connection to the internet, over which it may communicate in HTTP. This network connection assumes a physical or wireless connection from the client computer to a consumer Internet Service Provider (ISP) or enterprise environment Local Area Network (LAN).

## 3.2.2. System Features

**3.2.2.n. System Feature n**

3.2.2. Use Case-n Diagram (otherwise use another model)

3.2.2. Use Case-n Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE- SPECIFICATION** | | | | |
| **Use-case No.** | <UC001> | **Use-case Version** | | <1.0> |
| **Use-case Name** | <Name> | | | |
| **Author** | <Members> | | | |
| **Date** | Dd/mm/yyyy | **Priority** | <High/Normal/Low> | |
| **Actor:**  *<Lit all actors>*  **Summary:**  *<Briefly describe the used case >*  **Goal:**  *<Briefly describe the goal of used case >*  **Triggers**  *<What does lead in using this case?>*  **Preconditions:**  *<List the required pre-conditions for using this case>*  **Post Conditions:**  *<List the required post-conditions for using this case>*  **Main Success Scenario:**  *<List the main steps for using this case to reach the goal successfully >*  **Alternative Scenario:**  *<List other steps for using this case to reach the goal in some alternative conditions >*  **Exceptions:**  *<List exceptions of this use case >*  **Relationships:**  *<List the relationships that use case relates to>*  **Business Rules:**  *<Any concern about the business>* | | | | |

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## 3.2.3. Software System Attributes

**3.2.3.1 Reliability**

**3.2.3.2 Availability**

**3.2.3.3 Security**

**3.2.3.4 Maintainability**

**3.2.3.5 Portability**

**3.2.3.6 Performance**

# 3.3. Entity Relationship Diagram or Data Structures

*<Provide the ERD Diagram for the system here. If your team uses a file or in-memory storage facility instead of a database, replace this section by ‘Data Structures’. Note, use only ERD or Data Structures>*

# 3.4. Other material (if any)