SOFTWARE

REQUIREMENT

SPECIFICATION

**Introduction**

A software requirement specification (SRS) is a comprehensive description of the functionality, features, design, limitation, and goal of the software system to be developed. The following section provides and overview of the derived Software Requirements Specification (SRS) for the application. To begin with, the purpose of the document is presented, and its intended audience is outlined. Subsequently, the scope of the project specified by the document is given with a particular focus on what the resultant software will do and the relevant benefits associated with it. The nomenclature used throughout the SRS is also offered. To conclude, a complete document overview is provided to facilitate increased reader comprehension and navigation.

**Overall Description**

This section will give an overview of the whole system. The system will be explained in its

context to show how the system interacts with other systems and introduce its basic

functionality of it. It will also describe what type of users will use the system and what

functionality is available for each type. At last, the constraints and assumptions for the system will be presented.

**Product Perspective**

The “**UNI STUDY HUB**” software is a fully independent product and not a part of any other system. The users of the system are categorized as admin, lecturers, and students. The system gives online access to each separate user. This system provides an easy way for the students, they will be able to access the study materials. This Project is self-contained. It provides a simple database rather than complex ones for high requirements and it provides a good and easy graphical user interface (GUI) to both new as well as experienced users of the system.

**Product Functions**

* The "**UNI STUDY HUB**" initiative is being developed to provide students with an

online platform that will help them to learn more effectively and will also allow them to access study materials.



* All the details of subjects can be found in student page.
* It allows the lecturers to upload study materials.
* It allows students to obtain both softcopy and hardcopy of study materials.
* To obtain study materials, students should specify the subject of their choice.

**User Characteristics**

The system has three user levels.

**Admin**:

The admin can log in to the system using his/her email id and password. Here admin can

manage the details of lecturers and students.

1. Login
2. Manage Lecturers
3. Manage Student
4. Manage Payment
5. Manage Category
6. Feedback
7. Manage Report

**Lecturers**:

Lecturers can sign up by providing their personal information. They can upload study materials

whereby the needy can download it.

1. Registration
2. Login
3. Manage Profile
4. Upload Video
5. Add Content
6. Send Notification
7. Manage Class
8. View Payment
9. View Students
10. View Feedback
11. Report

**Students**:

The students can log in by providing their username and password.

1. Registration
2. Login
3. Manage Profile
4. View Membership
5. Apply Membership
6. Make Payment
7. Filter by Category
8. View lecturers
9. View content
10. Download Content
11. View notification
12. Feedback

**General Constraints**:

General constraints include the following:

* This website necessitates the use of an internet connection.
* This website's lecturers and students are managed solely by the administrator.
* No one has the authority to change any of the information on the website.
* Individual device failure should also be handled in a way that allows for seamless recovery with no data loss.

**Assumptions**:

* This system is thought to include three sorts of users: administrators, lecturers, and students.
* Even when the network traffic is excessive, the website must run smoothly and rapidly.
* The admin should be cautious when approving the students and lecturers

information.

* All the details related to students and lecturers should be maintained properly.
* All the information entered will be accurate and up to date.
* The necessary adjustments to gather and store the data are expected to be implemented inside the present application and database.
* The website is structured in such a way that users may easily and swiftly navigate through its numerous interfaces.

**SPECIAL REQUIREMENTS**:

**Software Requirements**:

* Operating system: Windows
* Text editor: Vs code editor
* Language: PHP
* Server: Apache
* User interface: HTML, CSS, JavaScript
* Database: MySQL
* Browser: Chrome, Mozilla Firefox, or any other browsing application

**Hardware Requirements**:

* Processor: Intel Pentium dual-core or above
* Processor Speed: 2GHz
* RAM – 1GB
* Hard Disk – Minimum 40 GB

**Functional Requirements**:

**Admin**:

* Login: Admin will enter the website using username and password.
* Manage Lecturers: In this module, admin can manage all the lecturers.

who have registered to the system i.e., he can approve/reject, view, and delete the

lecturer details.

* Manage Students: In this module, the admin can approve /reject registered students.
* Manage payment: In this module admin can view payment details.
* Manage category: The admin can manage the category.
* Feedback: The admin can view feedback given by their students.
* Manage Report: Monthly report can be viewed by the administrator in

this module.

**Lecturers**:

* Registration: The lecturers can register by giving the required details.
* Login: The lecturers can log in using /her username and password only after the

admin approves.

* Manage Profile: The lecturers manage their profile details.
* Upload Video: The lecturers can upload notes in video format.
* Add Content: The Lecturers can upload the contents.
* Send Notification: The lecturers can send notification.
* Manage Class: The Lecturers can take live class.
* View Payment: The lecturers can view membership of the students.
* View Students: In this module, the lecturers can view students.
* View Feedback: The Lecturers can view feedback given by the users.
* Report: The Lecturers can view the monthly report of the students.

**Students**:

* Registration: Students can register by providing basic information.
* Login: Students can use their username and password to log in.
* Manage Profile: The students can update their profile details.
* View Membership: Student can view their membership.
* Apply Membership: Students can apply for the membership.
* Make Payment: The students can payments.
* Filter by Category: The students can filter by the category.
* View Lecturers: The students can view lecturers.
* View Content: The students can view the available contents.
* Download Content: Students can download study materials provided by the lecturer for this module.
* View Notification: The Students Can view Notification.
* Feedback: The students can add feedback.

**Design Constraints**:

* While admin register to the system, mandatory fields must be checked for validation whether the lecturers and students has filled appropriate data in these mandatory fields.

If not, a proper error message should be displayed, or else the data is to be stored in a database for later retrieval.

* All mandatory fields should be filled by the students to access the study materials.
* All mandatory fields should be filled by the lecturers while adding the profile details.
* The system must be designed in such a way that will be easy to use and visible on most browsers.

**System Attributes**:

The database's quality is maintained in such a way that it is highly user-friendly to database

users.

* Performance: The system should be able to manage all users using any of the web browsers at the same time.
* Reliability: To avoid improper record storage, user inputs will be validated thoroughly.
* User-friendly Interfaces: Screen layouts that are self-explanatory or simple to use are believed to improve utilization quality.
* Maintainability: The capacity of a system to modify with ease is known as maintainability.
* Portability: This system must be portable, and the server must be readily switched.
* Flexibility: The system will continue to update the data in accordance with the transactions that occur.
* Timeliness: All processes should be completed in a very short amount of time by the system.

**Other Requirements**:

**Safety Requirements**

* There are two user levels in **UNI STUDY HUB**, Access to the various subsystems

will be protected by a user log-in screen that requires a username and password.

This gives different views and accessible functions of user levels through the

system.

* Email ID once registered to the system cannot be changed to make every user

unique and easily identifiable

* Maintaining backups ensures the system database security. The system can be

restored in any case of an emergency.

**Security Requirements**

* The server on which the **‘UNI STUDY HUB’** resides will have its security to prevent

unauthorized write/delete access. There is no restriction on reading access.

* Depending upon the category of using the access rights are decided.
* Admin has the maximum privilege to all subsystems.