Learning Hub Project

Software Requirements Specification

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**Prepared for**

ITI

**Revision History**

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# **1. Introduction**

## **1.1 Purpose**

The Learning Hub is an online platform designed to serve as a comprehensive encyclopedia, offering a wealth of information across various domains of life. Users can freely explore and acquire knowledge while also participating in a community where they can contribute and share their own expertise through articles, videos, and voice recordings.

## **1.2 Scope**

The product scope of the learning hub website project encompasses the following features:

1- **User Registration and Authentication:** The website will provide a registration and login system, allowing users to create accounts using their username, email, password, and confirmation of password. This feature ensures secure access to the platform and personalized user experiences.

2- **Categories for Languages and History:** The learning hub website will have two main categories: Languages and History. Users will be able to upload videos, articles, and voice recordings related to these categories.

3- **User Notifications for Followed Categories:** Users will have the option to follow specific categories of interest, such as Languages or History. By following a category, users will receive notifications whenever new content is uploaded within that category.

4- **Content Approval by Admin:** Before any uploaded content is posted on the website, it will go through an approval process by the admin. The admin will review the content to ensure its quality, relevance, and adherence to community guidelines.

## **1.3 Definitions, Acronyms, and Abbreviations**

| **Abbreviation** | **Word** |
| --- | --- |
| U | User |
| A | Admin |
| UMP | User Main Page |
| PP | Post Page |
| AA | Admin Approval |
| LP | Login Page |
| RP | Register Page |
|  |  |

# **2. Specific Requirements**

The Learning Hub will have 2 roles

1. User
2. Admin

Following features/modules will be available to these 2 different roles

| **User** | **Admin** |
| --- | --- |
| Login | Login |
| Register | Register |
| Logout | logout |
| Write Article | Write Article |
| Upload Video | Upload video |
| Record Voice | Record voice |
| Follow Category | Follow Category |
|  | Approval |

## **2.1 Front End Details**

This section describes the Front end of “Learning Hub” Website.

It also lists a few use cases to describe the functioning of the system

Following is a list of module wise fields

**Home Page**

* Login
* User name
* Password
* Login Button
* Register

**Register**

* User Name
* Email
* Password
* Confirm Password
* Submit
* Reset

**User Main Page**

* Drop down menu for categories
* Content Area
* Follow
* Logout
* Notification
* Post

**Approval Page (Admin)**

* Waiting Posts
* Approve / Disapprove Button

**Post Page**

* Drop down menu for post types
* Add Article
* Add Voice record
* Upload Video
* Upload Button

## **2.2 Technical Requirements**

**2.2.1 Home-Login Page**

**SRS\_LP\_HomeLayout\_001:** home page should contain simple design (login fields - A link to Registration page)

**SRS\_Lp\_UserName \_001:** User Name is not allowed to accept Numbers

**SRS\_LP\_UserName \_002**: User Name is not allowed to accept Special character

**SRS\_LP\_UserName \_003**:User name must not be blank

**SRS\_LP\_UserName \_004**: User Name must exist in the database .

**SRS\_LP\_Password\_001**: Password must exist in the database

**SRS\_LP\_Password\_002**:Password allow special characters

**SRS\_LP\_Password\_003**: password contains at least one uppercase Letter

**SRS\_LP\_Password\_004**: Password may Allow Numbers

**SRS\_LP\_001:** As User Enter Valid Username existed in database according to

SRS\_LP\_UserName \_004 and password associated with that username will redirected to the UserMainPage

**SRS\_LP\_002:** A link to the Registration Page should be under the Login fields says “Sign Up”

**2.2.2 Register Page**

**SRS\_RP\_User Name\_001** :User Name is not allowed Numbers

**SRS\_RP\_User Name\_002:**UserNameis not allowed to containSpecial characters

**SRS\_RP\_User Name\_003:**UserName must not be blank

**SRS\_RP\_User Name\_004:**User Name theFirst character in it must not be a space

**SRS\_RP\_Email\_001** :Email must not be blank

**SRS\_RP\_Email\_002** : Email the First character in it must not contain a space

**SRS\_RP\_Email\_003**:Email Must have special Character

**SRS\_RP\_Email\_004:** Email Must have Numbers at least one number

**SRS\_RP\_Email\_005:**Email Contain at least One Capital Character

**SRS\_RP\_Password\_001**: Password must not be blank

**SRS\_RP\_Password\_002**: Password allow special characters

**SRS\_RP\_Password\_003**:Password contains at least one uppercase Letter

**SRS\_RP\_Password\_004**: Password allows any numbers.

**SRS\_RP\_ConfirmPassword\_001**:Confirm Password Must Match Password

**SRS\_RP\_001:** As User Enter Valid User Name according to the required , Email , password and ConfirmPassword in valid way will redirected to the UserMainPage

**2.2.3 User Main Page**

**SRS\_UMP\_DropDownMenu\_001** Drop down menu default choice is “History”.

**SRS\_UMP\_DropDownMenu\_002** Articles of “History” category are displayed by default in the content area.

**SRS\_UMP\_DropDownMenu\_003** Choosing any category will display only this category’s articles in the content area.

**SRS\_UMP\_Follow\_001** Pressing the “Follow” button will change the button name to “Unfollow” and when pressed on “Unfollow” will change to “Follow” again.

**SRS\_UMP\_Follow\_002** Pressing the “Follow” button will provide the user with notification when a new article is added to the category.

**SRS\_UMP\_Follow\_003** Pressing the “Unfollow” button will cancel providing notifications for the user from this category.

**SRS\_UMP\_Notifications\_001** notifications will be displayed on a column by the right of the website.

**SRS\_UMP\_Notifications\_002** new notifications will be displayed based on the last login.

**SRS\_UMP\_Notifications\_003** If no articles are added since last login, the notifications column will display “No new articles”.

**SRS\_UMP\_ContentArea\_001** Content Area will show the articles, videos and voice notes related to the selected category-by default “History” category- in the user main page.

**SRS\_UMP\_ContentArea\_002** If the user clicked on an article, video or voice note it will be displayed.

**SRS\_UMP\_LogOut\_001** Pressing the “LogOut” button will redirect the user to the Home Page.

**2.2.4 Post Page**

**Info:** The default post will be “Article”.

**SRS-PP-Article-001:** Article field is not blank and contains from 1 to 2500 characters, the user will be able to upload the article and a message “your article is added successfully” will appear to the user.

**SRS\_PP\_Article\_002:** Article field is blank, a message “This field cannot be blank” will appear to the user.

**SRS\_PP\_Article\_003:** Article field exceeds the 2500 character,a message “You exceeded the characters’ number limit” will appear to the user.

**SRS\_PP\_VoiceRecord\_001:** Voice record is (10 minutes) or (less than 10 minutes) in duration, the user will be able to upload the voice record and a message “your voice record is added successfully” will appear to the user.

**SRS\_PP\_VoiceRecord\_002:** Voice record exceeds the 10 minutes in duration, a message “You exceeded the voice record duration limit (10 Minutes)” will appear to the user.

**SRS\_PP\_UploadVideo\_001:** Uploaded video is (100 MB) or (less than 100MB) in size, the user will be able to upload the video and a message “your video is added successfully” will appear to the user.

**SRS\_PP\_UploadVideo\_002:** Uploaded video exceeds 100 MB, a message “You exceeded the video upload size (100 MB)” will appear to the user.

**2.2.5 Admin Approval**

**SRS-AA-001** When a user submits a post, the admin will review the post to determine its relevance to the selected category.

**SRS-AA-002** If the admin determines that the post is related to the selected category, the system shall publish it within the corresponding category.

**SRS-AA-003** If the admin determines that the post is not related to the selected category, the system shall cancel it and prevent its publication.

**2.3 Functional validations**

**2.3.1 Login**

* UserName must exist in the database.
* UserName if was invalid display an error message

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* Password if was invalid a system will display an error message

**2.3.2 Register**

* Email Must be valid according to criteria or if it was invalid , system display an error message
* Password Must be valid and follows Password Restrictions or System display an error message
* ConfirmPassword must match the password or system will display an error message