Learning Hub Project

Software Requirements Specification

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**Prepared for**

ITI

**Revision History**

| **Date** | **Description** | **Author** | **Comments** |
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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 Post Page**

**SRS\_PP\_DropDownMenu\_001 :** Drop down menu default choice is “Article”.

**SRS-PP-Article-001** : Article field should not be blank to be accepted

**SRS\_PP\_Article\_002 :** if it is blank the user will not be able to upload the article

**SRS\_PP\_Article\_003 :** a message “This field can not be blank” will appear if the article was blank.

**SRS\_PP\_Article\_004** : Article field should contain a maximum of 2500 characters to be accepted.

**SRS\_PP\_Article\_005 :**  if it exceeds the 2500 character the user will not be able to upload the article.

**SRS\_PP\_Article\_006 :** a message “you exceeded the characters’ number limit” will appear to the user if the article exceeds 2500 characters.

**SRS\_PP\_VoiceRecord\_001** : Voice recordings should not exceed 10 minutes in duration to be accepted

**SRS\_PP\_VoiceRecord\_002** : if it is more than 10 minutes the user will not be able to upload the voice record

**SRS\_PP\_VoiceRecord\_003** : a message “You exceeded the voice record duration limit (10 Minutes)” will appear to the user if it is more than 10 minutes.

**SRS\_PP\_UploadVideo\_001** : uploaded video should not exceed 100 MB in size to be accepted

**SRS\_PP\_UploadVideo\_002 :** if it is more than 100 MB the user will not be able to upload the video

**SRS\_PP\_UploadVideo\_003** : a message “You exceeded the video upload size (100 MB)” will appear to tell him the problem

**-The expected output if user upload valid (article-voice record-video) as in requirements SRS-PP ,he will be able to upload the post and will appear a message to him shows that he added the post successfully and when he press on ok button it will redirect him to the category page that he posted in.**

**2.2.2 Admin Approve**

**SRS-AA-001** When a user submits a post, the system shall mark it as pending admin approval. 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 mark it as approved and 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 mark it as canceled and prevent its publication.

**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 Login Page**

**SRS\_Lp\_UserName \_001:** Numbers are not allowed

**SRS\_LP\_UserName \_002**: Special characters are not allowed

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

**SRS\_LP\_UserName \_004**: First character cannot have space

**SRS\_LP\_UserName \_005**: must not be blank

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

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

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

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

**-The Expected Output if user enters all the required in valid way will redirects him to main user page but if any invalid input fields entered the system will appears a message with specific invalid input**

**2.2.5 Register Page**

**SRS\_RP\_User Name\_0**01 : Numbers are not allowed

**SRS\_RP\_User Name\_002:**Special characters are not allowed

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

**SRS\_RP\_User Name\_004:**First character cannot have space

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

**SRS\_RP\_Email\_002** : First character cannot have space

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

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

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

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

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

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

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

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

**-The Expected Output if user enters all the required in valid way will redirects him to main user page but if any invalid input fields entered a message will appears to specific invalid input**

**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