Software Design Document

Learning Hub Web Application

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V 1.1

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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Date | Version | Revision Date |
| Maha Mohamed  Mai Ashraf  Mostafa Gamal | 17/5/2022 | 1.0 | 20/5/2022 |
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# Introduction

## Purpose of Software Design Document

This document is targeting all team members to make the system clearer and describing each function sequence and its inputs & outputs. All functions mentioned in the document is specified to be front-end or back-end coding its functionality and Unique id for each function.

## Summary of Project

The Learning Hub functions as an online free encyclopedia with a variety of material, allowing users to discover and receive knowledge in a variety of life domains while also participating in a community where they may contribute and share their expertise.

## Table of Functions

### 1.3.1 Login Feature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Login\_1 | Page\_Load | Open the database connection | IP address  Port number  User  password | Page is loaded with open connection | - |
| Login\_2 | LoginBtn\_Click | Compare login data with data in DB and direct to home page based on login data of user/admin | Username  Password | Login sucsessfully and directing to home page | - |
| Login\_3 | signupBtn\_Click | Redirect the user to signup page. |  | Direct user to signup page | - |

### 1.3.2 Choose Category Feature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Choose\_Category\_1 | Page\_Load | Open the database connection | IP address  Port number  User  password | Page is loaded with open connection | - |
| Choose\_Category\_2 |  |  |  |  |  |
| Choose\_Category\_3 |  |  |  |  |  |

### 1.3.3 Publish an Article Feature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Publish\_Article\_1 | Page\_Load | Open the database connection | IP address  Port number  User  password | Page is loaded with open connection | - |
| Publish\_Article\_2 | PostBtn\_Click | Get Category ID that user chose, Content ID and Title and send it to Article Table in DB | ContentID  CategoryID  Title | Article Published Successfully | - |

### 1.3.4 Navigate Feature

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Navigate\_1 |  |  |  |  |  |
| Navigate\_2 |  |  |  |  |  |
| Navigate\_3 |  |  |  |  |  |

### 1.3.5 Sign-Up

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Sign-Up\_01 | Page\_Load | This function runs automatically when the page is reloaded initializing the database connection | No inputs (only the inputs created by the compiler and database such as IP address, port number, username and password of the database) | The connection is established, and the page is loaded |  |
| Sign-Up\_02 | SignupBtn\_Click | This function runs when the signup button is clicked. | Username, Password | Account Successfully Created! |  |

### 1.3.6 Admin-Delete-content

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Delete\_Content\_ 01 | Page\_Load | This function runs automatically when the page is reloaded initializing the database connection | No inputs (only the inputs created by the compiler and database such as IP address, port number, username and password of the database) | The connection is established, and the page is loaded |  |
| Delete\_Content\_ 02 | FollowBtn\_Click | This function runs when the delete button is clicked then choose delete video. | Content ID, Video Name | The video is deleted |  |
| Delete\_Content\_ 03 | FollowBtn\_Click | This function runs when the delete button is clicked then choose delete record. | Content ID, Record name | The record is deleted |  |
| Delete\_Content\_ 04 | FollowBtn\_Click | This function runs when the delete button is clicked then choose delete Article. | Content ID, Article name | The article is deleted |  |

### 1.3.7 Admin-Delete-User

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Delete\_User\_01 | Delete\_Click | This function runs when the delete button is clicked then choose delete User. | Username,  User Email  Database:   1. IP address 2. Port number 3. Username 4. password | User Deleted successfully |  |

### 1.3.8 View-Article

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| View\_Article\_01 | Page\_Load | This function runs automatically when the page is reloaded initializing the database connection and views article | 1.ContentID  2.UserID  3.CatID  4.Username  5.Catname  6.Artname  7.PublishDate  8.ArtContent  Database:   1. IP address 2. Port number 3. Username 4. password | The connection is established, and the page is loaded then the Article is viewed |  |

### 1.3.9 Log-out

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Log-out\_01 | Page\_Load | This function runs automatically when the page is reloaded initializing the database connection and user clicks on logout button | No inputs (only the inputs created by the compiler) | The user gets redirect to home page |  |

### 1.3.10 Upload-Video

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Upload-Video\_01 | UploadVideo | This function runs automatically when the page is reloaded initializing the database connection  And validate on extension and length of video | Video name,  Video ID, Content ID  Database:   1. IP address 2. Port number 3. Username 4. password | -- |  |
| Upload-Video\_02 | Button1\_Click | This function calls UploadVideo function | -- | The video is uploaded | **Upload-video\_01** |

### 1.3.11 Upload-Record

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Name | Description | Input | Output | Called Function |
| Upload-Record\_01 | UploadRecordedVoice | This function runs automatically when the page is reloaded initializing the database connection  And validate on extension and length of the record | Record name,  Record ID, Content ID  Database:   1. IP address 2. Port number 3. Username 4. password | -- |  |
| Upload-Video\_02 | Button1\_Click | This function calls UploadRecordedVoice function | -- | The record is uploaded | **Upload-Record\_01** |