Software Requirements Specification

*Encyclopedia Web Application*

**Version** *1.1*

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**Revision History**

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| **Name** | **Date** | **Reason For Changes** | **Version** |
|  |  |  |  |
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# Introduction

## Purpose

## Document Conventions

## Intended Audience and Reading Suggestions

## Project Scope

## References

# Overall Description

## Product Perspective

## Product Features

## Operating Environment

## Design and Implementation Constraints

## User Documentation

## Assumptions and Dependencies

# System Features [Functional Requirements]

**USER:**

## Functional Requirement 1

**ID:** FR1\_U

**Title**: Register user.

3.1.1 Description and Priority

**Description**: The user shall create an account in order to perform specific functionalities. The creation of an account requires (Email,username(special characters are not allowed),Strong Password(not less than 8 characters, at least one special character, upper and lower cases and numbers),Confirm Password).

**Priority:** High.

3.1.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User will navigate to the Encyclopedia website

2- User tries to access the specific functionality without creating an account and the system alerts that the user should register first if he/she does not have an account.

3- User navigates through the web application and clicks on the register button.

4- User enters the required fields.

5- User clicks on the submit button.

**Response sequences:**

1-  if the required fields are valid the system will respond with a message that the account is created successfully

2- In case any Invalid field is entered the system shall alerts the user to enter a valid data

3- In case of poor connection the system may give an error message that sign up process failed

**Dependency:** None.

## Functional Requirement 2

**ID:** FR2\_AU

**Title:** Login

3.2.1 Description and Priority

**Description:** The user shall be able to login to the system by entering his/her username and password

**Priority:** High.

3.2.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User/Admin will navigate to the Encyclopedia website

2- User/Admin tries to access the specific functionality without logging in and the system alerts that the user should login if there is a created account.

3- User/Admin navigates through the web application and clicks on the Login button.

4- User/Admin enters the required fields.

5- User/Admin clicks on the submit button.

**Response sequences:**

1-  if the required fields are valid the system will respond with a message that the user is logged in successfully

2- In case any Invalid field is entered the system shall alerts the user to enter a valid data

3- In case of poor connection the system may give an error message that login process failed.

**Dependency:** FR1\_U (for users only).

## Functional Requirement 3

**ID:** FR3\_AU

**Title:** Log out

3.3.1 Description and Priority

**Description:** The user shall be able to log out from his/her own account in the system

**Priority:** High.

3.3.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User/Admin is logged in the system

2- User/Admin navigates through the website to log out

3- User/Admin clicks on log out button

**Response sequences:**

1-  The system will log out successfully

2- In case of poor connection the system may give an error message that log out process failed

**Dependency:** FR2\_AU.

## Functional Requirement 4

**ID:** FR4\_U

**Title:** Forget Password

3.4.1 Description and Priority

**Description:** The user shall have the forget password functionality in case he/she did not remember the password so he could be able to open his/her account by entering his email so the system shall send a verification code via email to reset password

**Priority:** High.

3.4.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User has an existing account on the system

2- User tries to log into the system but the user could not remember the password

3- User clicks on forget password

4- User enters his/her email

5- User clicks on send

6- User enters the verification code and the new password

**Response sequences:**

1-  when the user clicks on forget password a system shall send a message to the user to enter his email so the system shall send a verification code, when the user enters the new password, the system respond with a message that the new password is created successfully and now the user is ready to log in

2- In case of poor connection the system may give an error message that the process failed

**Dependency:** FR1\_U.

## Functional Requirement 5

**ID:** FR5\_U

**Title:** Search for Category

3.5.1 Description and Priority

**Description:** The user shall navigate through the system to search for a specific Category either by entering the category name via search bar or by just navigating through the website

**Priority:** High.

3.5.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User opens the Encyclopedia website

2- User search for the name either by entering its name or by navigating through the website

3- In case of searching for the category name, the user will press enter and then the category name will appear and they will press on it. Incase of the navigation user will just click on the category name

**Response sequences:**

1- after clicking on the category the system shall open the category that the user searched for

2- In case the user searched for a category that is not found, the system shall alert a message that no such a category found

3- In case of poor connection the system may give an error message that the process failed

**Dependency:** None.

## Functional Requirement 6

**ID:** FR6\_U

**Title:** Publish an article

3.6.1 Description and Priority

**Description:** The user shall log into his/her account to be able to publish his own article in a specific category

**Priority:** High.

3.6.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User opens the Encyclopedia website

2- User log into his/her own account by entering username and password

3- User clicks on the category that he wants to publish the article in it

4- User clicks on publish article button

5- User chooses the article

6- User clicks Submit

**Response sequences:**

1- When the article is submitted, the system shall gives a message that the article is published successfully and appears on the system

2- In case of poor connection the system may give an error message that the process of publishing the article failed

**Dependency:** FR2\_AU (for users only)

## Functional Requirement 7

**ID:** FR7\_U

**Title:** Upload Video

3.7.1 Description and Priority

**Description:** The user shall log into his/her account to be able to upload video in a specific category, also the video should not exceed two minutes

**Priority:** High.

3.7.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User opens the Encyclopedia website

2- User log into his/her own account by entering username and password

3-User clicks on the category that he wants to upload video in it

4- User clicks on upload video button

5- User chooses the video

6- User clicks Submit

**Response sequences:**

1- When the video is uploaded, the system shall gives a message that the video is uploaded successfully and appears on the system

2- In case of poor connection the system may give an error message that the process of uploading the video failed

3- In case the video exceeds two minutes, the system shall alert the user by giving him two options either by cutting the video in to several videos or by canceling the uploading process

**Dependency:** FR2\_AU (for users only)

## Functional Requirement 8

**ID:** FR8\_U

**Title:** Record Voice

3.8.1 Description and Priority

**Description**: The User should be able to record voice recordings on the web application

**Priority:** Medium

3.8.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User is logged in the system

2- User navigates through the web application to show the categories

3- User clicks on the voice record button to start recording

**Response sequences:**

1- if the user logged in and clicked on the voice record button and start recording this record shall be added successfully to the web application.

2- if the user after logged in tries to record voice recording and he/she can not, the system shall alert message that there is something wrong with the system.

**Dependency:** FR2\_U.

## Functional Requirement 9

**ID:** FR9\_U

**Title:** Follow specific categories

3.9.1 Description and Priority

**Description**: The User should be able to follow specific categories and receive a notify message after this articles added to the system

**Priority:** Medium

3.9.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User is logged in the system

2- User navigates through the web application to show the categories

3- User clicks on the follow button to follow specific categories

**Response sequences:**

1- if the user logged in and clicked on the follow button for specific categories the user shall receive any new article that is added to this category that he/she follows.

2- if the user after logged in can not receive notification after a new article is added to his/her following category the system shall alert message that there is something wrong with the system.

**Dependency:** FR2\_U.

## Functional Requirement 10

**ID:** FR10\_U

**Title:** Notify user about new articles

3.10.1 Description and Priority

**Description**: The User should receive notification about any new articles that are added to the categories that this user is following.

**Priority:** Medium

3.10.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User is logged in the system

2- User navigates through the website to show the notifications

3- User clicks on notification button

4- User click on the newest article that added to the web application

**Response sequences:**

1- if the user logged in and clicked the notification button to show the newest article this article should appear successfully in the web application.

2- if the user after logged in can not show the notification message that there is a new article added to the web application the system shall alert message that there is something wrong with the system.

**Dependency:** FR9\_U.

**ADMIN:**

## Functional Requirement 11

**ID:** FR11\_A

**Title:** Delete user Account

3.11.1 Description and Priority

**Description**: The Admin shall be able to delete any user account

**Priority:** Medium

3.11.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- Admin will navigate to the Encyclopedia web Application.

2- Admin should be logged in to the system.

3- Admin chooses a specific user account to delete it.

4- Admin then click on the delete button.

**Response sequences:**

1- if the admin logged in and chooses to delete a specific user account a message should appear that this user deleted successfully from the web application.

2- if the admin after logging in can not delete a specific user the system shall alert message that there is something wrong with the system due to poor connection.

**Dependency:** FR2\_U.

## Functional Requirement 12

**ID:** FR12\_A

**Title:** Give user Access

3.12.1 Description and Priority

**Description**: The Admin shall be able to give the access permission to any user in the system to be admin to.

**Priority:** Medium

3.12.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- Admin will navigate to the Encyclopedia web Application.

2- Admin should be logged in to the system.

3- Admin chooses a specific user account to give access permission to be an admin to.

4- Admin click confirm button.

**Response sequences:**

1- if the admin logged in and chooses to give access permission to a specific user account to be admin, a message should appear that this user is now admin to the system successfully.

2- if the admin after logging in can not give access permission to a specific user the system shall alert message that there is something wrong with the system due to poor connection.

**Dependency:** FR2\_U.

## Functional Requirement 13

**ID:** FR13\_A

**Title:** Delete user Content

3.13.1 Description and Priority

**Description**: The Admin shall be able to delete any content that the user adds to the web application like (upload videos , upload records , publish article to specific category) that violates the rules of the system.

**Priority:** Medium

3.13.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- Admin will navigate to the Encyclopedia web Application.

2- Admin should be logged in to the system.

3- Admin navigate to a specific user account to delete specific content.

4- Admin click delete button on specific content.

**Response sequences:**

1- if the admin logged in and chooses a specific account to delete specific content from it the system should show a message that this content is deleted.

2- if the admin after logging in can not delete specific content for a specific user the system shall send an alert message that there is something wrong with the system due to poor connection.

**Dependency:** FR2\_U.

## Functional Requirement 14

**ID:** FR14\_U

**Title:** Notify user about content deleted

3.14.1 Description and Priority

**Description**: The User should receive notification at his/her account showing that there is specific content deleted from their account.

**Priority:** Medium

3.14.2 Stimulus/Response Sequences

**Stimulus sequences:**

1- User will navigate to the Encyclopedia web Application.

2- User should be logged in to the system.

3- Click the notification button.

4- The message appeared that specific content had been deleted.

**Response sequences:**

1- if the user logged in and clicks the notify button the notification should appear successfully with the right message.

2- if the user after logging in can not show the notification the system shall alert message that there is something wrong with the system due to poor connection.

**Dependency:** FR1\_U.

1. **Specific Requirements**

# External Interface Requirements

# Nonfunctional Requirements

## Performance Requirements

* Login process shall take no more than 10 seconds after writing the correct username and password, Register shall take a few seconds to make sure of The appropriate time by E- mail shall take few seconds depending on connection speed.
* The system shall take no more than 10 seconds to respond to the user.
* System should upload 1000 pictures per second.

## Security Requirements

• The access permissions for system data may only be changed by the system’s data administrator.

• All system data must be backed up every 24 hours and the Backup copies stored in a secure location which is not in the same building as the system.

• All Admin and users Data must be encrypted.

## Software Quality Attributes

**1- Usability**

• Well-structured user manuals.

• Informative error messages.

• Help facilities.

• Well-formed graphical user interfaces

**2- Reliability:**

**.**The system's downtime should not be more than ten

minutes per month.

**3- Portability:**

**.** The system should support almost all the browsers due to itis Web application

(Internet Explorer, Safari, Chrome, and Firefox).

**4-Compatibility:**

**.** The system should support almost all the operating systems due to itis PC based

(Android, IOS).

**5- Availability:**

• The Encyclopedia System would be available 99% at 24 hours per day.