**CÉGEP DE LA GASPÉSIE ET DES ÎLES**

**Montreal, Quebec**

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Final Year Project Report on

**Internship - End Of Program**

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# 1. INTRODUCTION

## 1.1 Quiz Fun

**Quiz Fun** application provides different types of quiz tests related to different subjects and topics. This application contains different fields of knowledge like Computers, Mathematics, Learning French, and Science. Many applications are available for the quiz for fun, but our application provide knowledge along with fun. With the help of this application students can not only prepare themselves for different competition, but they can also gain more and more knowledge even if they would be wrong, they can get right answers afterwards. User can practice their knowledge using smart phones. This is an interesting and easy way to earn knowledge and learn new things.

## 1.2 Purpose

The main purpose of this application is learning, gaining and improve the knowledge. User can learn a different language with the help of this application. It also provides the interesting quiz tests about computer hardware and software, science, mathematics etc. This is not it; this app will allow user to make their sets of Questions/ answers of their own interest and in this way, they can memorize more easily.

## 1.3 Scope

Scope of our application is to check and provide the knowledge. Sometimes, users use quiz application as a pre-test or sometimes as a post-test So its easy way for them to check their knowledge and increase it with a simple and easy way.

 1. This can be used in Educational institutions as well as in the Entertainment world.

2. Can be used anywhere any time as it is a web-based application.

3.Many Categories are included in this Quiz Fun Application.

4. Easy way to test knowledge.

5. User-friendly app for easy understanding.

# 2. General Description

## 2.1 Product Function

Quiz Fun app is a digital platform which allow users to test their level of education by taking quiz tests.

## 2.2 User Characteristics

This application provide Quiz tests related to different subjects. This application allows user to search and choose quiz test according to their topic of interest to check their level of knowledge. During the quiz test, a user can skip the question and exit quiz if required. After choosing the answer, user can get the answer if it is right or wrong. In case of choosing wrong answer, user can get right answer too. This application will provide immediate results after submitting the test. Users will be allowed to give feedback about their test and application. This application provides user facility to update personal information as well.

# 2. Specific Requirements

## 2.1 Functional Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement ID** | **Requirement Statement** | **Must/Should/Could/Would** | **Comments** |
| FR001 | A user must be logged into the application with authenticated username and password. | MUST | The system shall save the username and password within the database. |
| FR002 | A logged in user shall be able to sign out of the application. | MUST | The system shall logout the user of the app. |
| FR003 | A user shall be able to reset the password of the app. | MUST | The system shall update the user password in the database. |
| FR004 | Verification email is sent to the user whenever he/she registers for the first time on some software system. | MUST | The system shall send the verification email for authentication of the user. |
| FR005 | A user must be able to add questions (cards) in the database. | MUST | The system shall add the questions in the database. |
| FR006 | The user must be notified whether their input is the correct answer to the question. | MUST | The system shall check the correct answer of the question. |
| FR007 | A user must be provided the number of total questions they correctly answered out of total questions given in the form of percentage | MUST | The system shall show the result. |
| FR008 | A user must be able to add the rating. | MUST | The system shall add the rating in the database. |
| FR009 | A user can be able to provide the questions they correctly and incorrectly answered. | MUST | The system shall show the right and wrong answers. |
| FR010 | A user must be able to manage the profile accordingly. | MUST | The system shall update the user profile in the database. |
| FR011 | A user must use a correct email to sign in the account. | MUST | The system shall login the user with correct email. |

## 3.2 Non-functional Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement ID** | **Requirement Statement** | **Must/Should/Could/Would** | **Comments** |
| FR001 | A user must be logged into the application with authenticated username and password. | MUST | The system shall save the username and password within the database. |
| FR002 | A logged in user shall be able to sign out of the application. | MUST | The system shall logout the user of the app. |
| FR003 | A user shall be able to reset the password of the app. | MUST | The system shall update the user password in the database. |
| FR004 | Verification email is sent to the user whenever he/she registers for the first time on some software system. | MUST | The system shall send the verification email for authentication of the user. |
| FR005 | A user must be able to add questions (cards) in the database. | MUST | The system shall add the questions in the database. |
| FR006 | The user must be notified whether or not their input is the correct answer to the question. | MUST | The system shall check the correct answer of the question. |
| FR007 | A user must be provided the number of total questions they correctly answered out of total questions given in the form of percentage | MUST | The system shall show the result. |
| FR008 | A user must be able to add the rating. | MUST | The system shall add the rating in the database. |
| FR009 | A user can be able to provide the questions they correctly and incorrectly answered. | MUST | The system shall show the right and wrong answers. |
| FR010 | A user must be able to manage the profile accordingly. | MUST | The system shall update the user profile in the database. |
| FR011 | A user must use a correct email to sign in the account. | MUST | The system shall login the user with correct email. |

# 3. Analysis Model

## 3.1 Use Case Diagram

Diagram

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## 3.2 Use Case Scenarios

## 3.3 Class Diagram

## 3.4 Screen Diagram

Welcome Screen

![Graphical user interface, application

Description automatically generated]()

Sign Up Screen

![Graphical user interface, application

Description automatically generated]()

Log In Screen

Graphical user interface, application

Description automatically generated

Forgot Password:

Graphical user interface, text, application, chat or text message

Description automatically generated

Example main screen

A picture containing graphical user interface

Description automatically generated

# 4. User Stories

# 5. Database Schema

## 5.2 Queries

## 5.2 Entity Relationship Diagram

# 6. Web Calls

# 7. Screen Flow Diagram

## 7.1 Individual Screens

**Conclusion & Recommendations**

# 8. Test Case Scenarios

# 

# 

# References