Quiz Competition Project

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1. Introduction

1.1 Purpose:

The purpose of this document is to organize quiz competition over authenticated way. Short discussion accompanies each requirement, to add the background and framework necessary to explain the functionality. It also describes nonfunctional requirements and other factors necessary to provide a complete and comprehensive description of the requirements for the software.

1.2 Scope:

The software system will be quiz competition having multiple choice questions, where user can authenticate himself and give the quiz and can see score for the same as well.

1.3 Definition, acronym and abbreviation

1.3.1 Login:

Login is functional system is help user to authenticate himself with own defined credential.

1.3.2 Quiz:

Quiz means to have multiple choice questions.

1.4 Reference:

Probuz

2. Overall description

2.1 Product perspective:

Login and give Test is meant to serve as a common platform where registered user can login and give test and check score.it is user friendly user can easily give test.

2.2 User interface

This product shall provide a very simple interface to the user so that user can easily login and select otion for give test.

2.3 Software interface

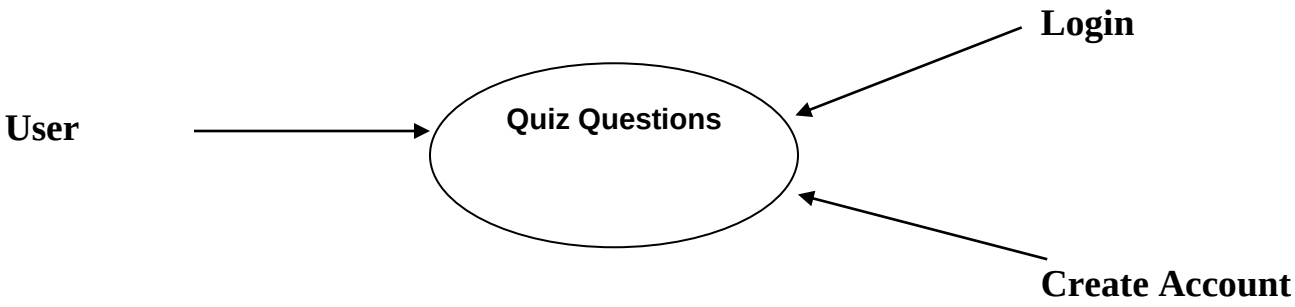
Code created in CPP programming logic.

2.4 Hardware interface

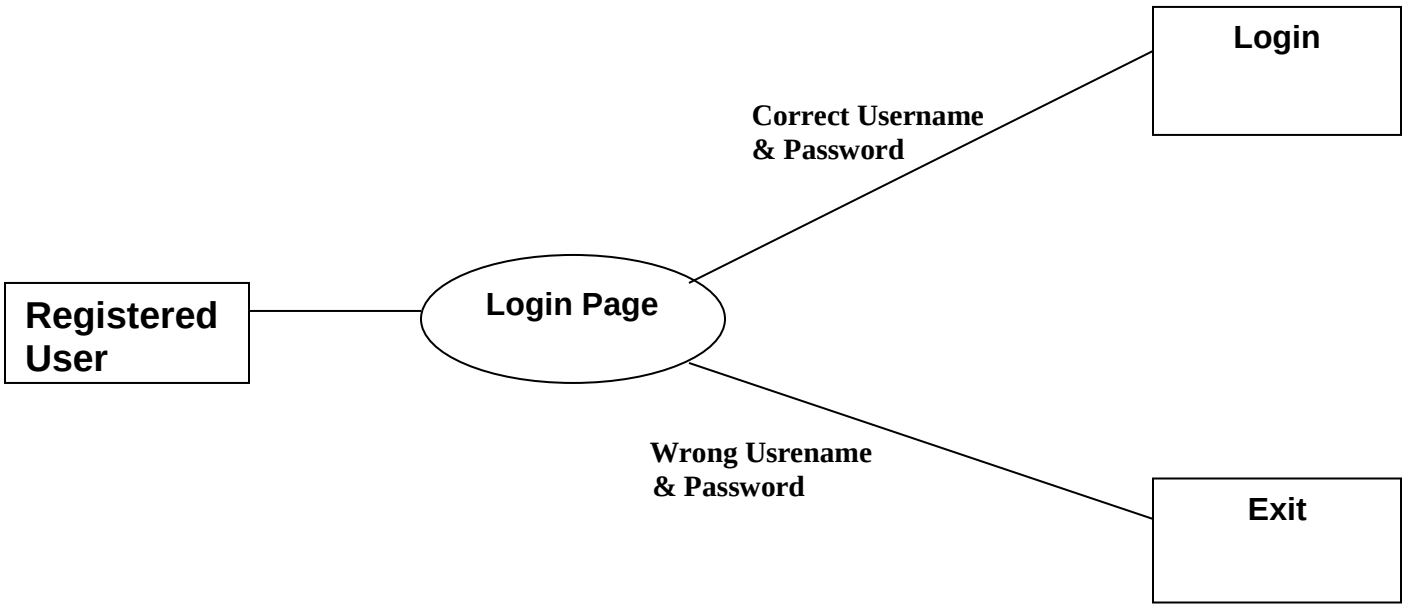
Laptop or computers , keyboards and mouse , using this user interact with system.

3. Product Function

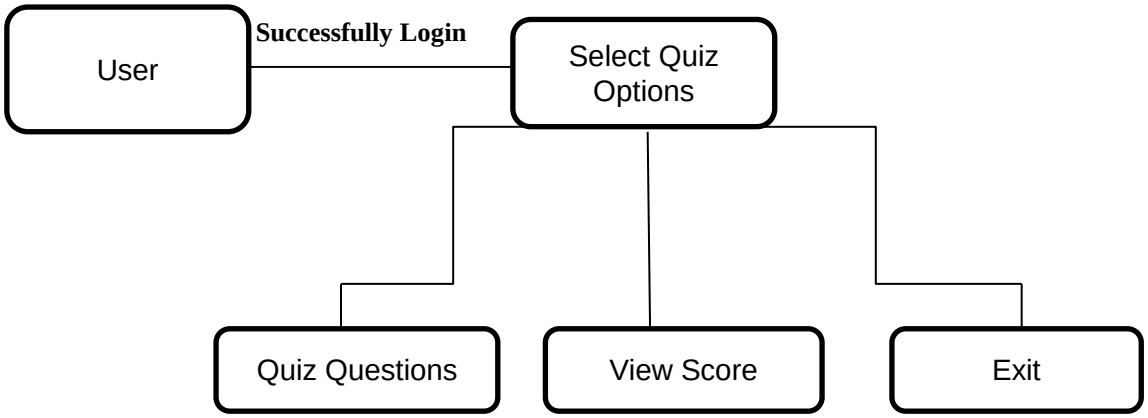
1. Context diagram:



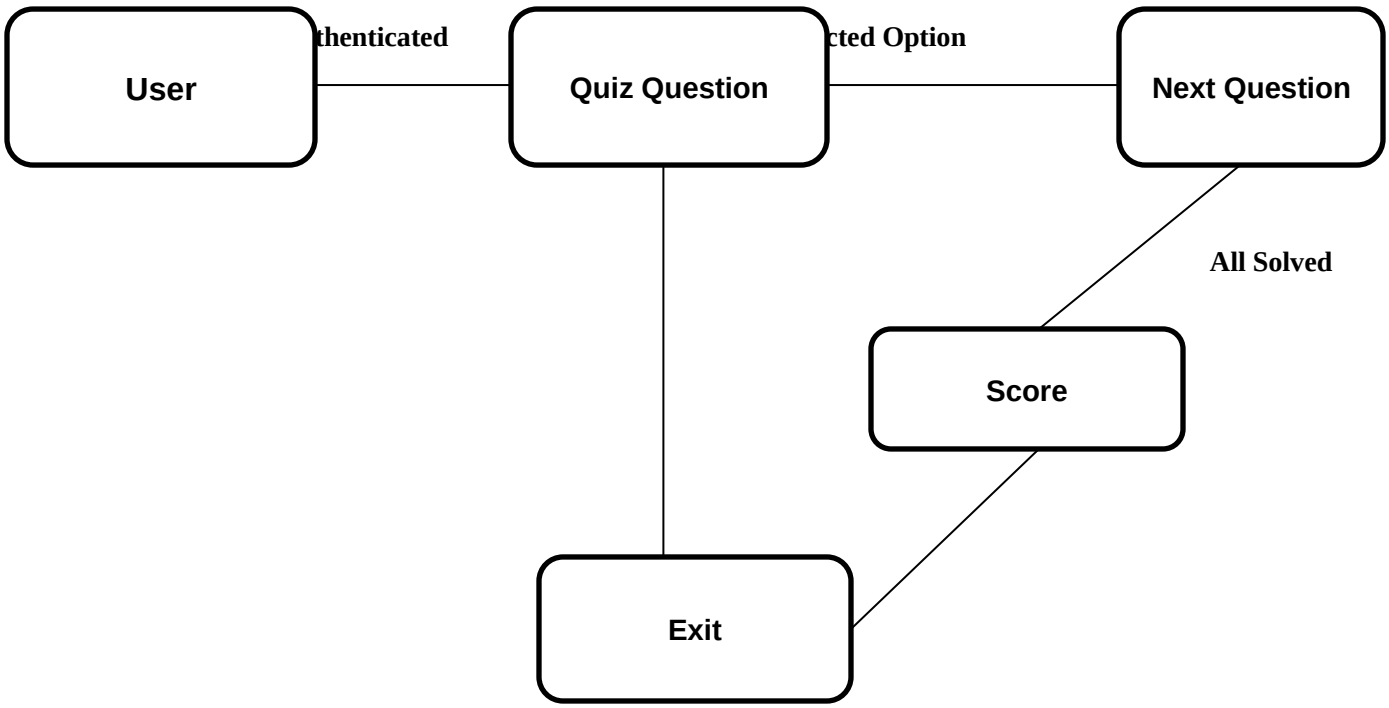
2. Use case diagram:



3. Menu selection



4. Start test



3.1 Context Diagram

It consist of user, quiz question, create account and login feature.

3.2 User Case diagram

Already registered known user with his login name and password will able to successfully login into system. If login successful is shows login successful otherwise it shows password is wrong and exit .

3.3 Menu selection

After successful login then it shows next screen of menus where user have to choose any option if he want to give test then select start option ,for view score select view option and for back select exit option.

3.4 Workflow

If user select start option on next screen questions will display on screen one by one to user the user have to select correct option. If option is correct then screen shows correct or wrong answer with correct option. After completion of questions On screen shows directly obtained score.

4. Constraint

7.1. User interface constraint

Using this software is simple and intuitive and user can familiar with this software very easy.

7.2. Software constraint

The software will be run on any IDE or command Prompt.

7.3. Hardware constraint

The system should work on desktop and laptop.

7.4. Design standard compliance

This software shall be run on console app in c++ programming language.

5. Specific requirement

5.1 Functional requirement

5.1.1 Use case scenario-user login

5.1.2 use case scenario-give test

A. Use case scenario-user login

Purpose	User logs into software using Already created profile.
User	A user with an existing profile.
Input data	Username and password.
Output data	Corresponding data.
Pre-condition	User will not logged into a profile input profile matches with existing data.
Post-condition	Matched with existing data login successful.
Basic flow	Matched data with existing data if matches shows logging successful otherwise shows wrong password.

B. Use case scenario-give test

Purpose	A user wants to start quiz(test).
User	A legitimate user logged into the software(system).
Input data	Start quiz.
Output data	Shows obtained score.
Pre-condition	User is logged into system shows menu on screen to select menu.
Post-condition	User wants to start quiz and see score
Basic flow	The user select menu and start test after complete test on screen directly shows score.

8.2. Performance requirement

The system support one user at a time who already registered and same create account as well using signup.

8.3. Design constraint

The software(system)/product will be written in c++

Programming language output must compatible with console app.

8.4 Software system attributes

1. C++ Compiler
2. RAM(memory).

8.5 Reliability

The reliability of the overall program depend on the Separate components.

8.6 Availability

The system code is available on open source github platform.

8.7 Portability

This software run on other C++ IDE also.