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## 1 PROJECT TEAM INTRODUCTION

### Project manager

- Teacher: Luong The Anh
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### Team Leader/Analysis/ Designer / Coder /Tester

- Student: Truong Thi Minh Thuy
- Student ID: Student1220535
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### Team Member/Coder

- Student: Doan Trong Nhon
- Student ID: Student1220375
- Email: [dtnhona19027@cusc.ctu.edu.vn](mailto:dtnhona19027@cusc.ctu.edu.vn)

|                                   |   |                      |
|-----------------------------------|---|----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Problem Definition Document</b> | <b>SWD/Form No.1</b> |
| <b>Effective Date: 10/10/2020</b> | <b>Version: 1.0</b>                               | <b>Page 1 of 1</b>   |

## 2 PROBLEM DEFINITION OF KBC QUIZ

KBC Quiz is an online Quiz show game where user can play the quiz game. For the entertainment sake they have decided to add the prize money for the game which will keep on increasing with every question answered correctly. The player can choose number of question, generation of the question is random based, so that consecutive user does not get the repeated question and neither the same user get that question again. If the user answers the question incorrect, the finale amount should generate and his/her page should get terminated. Question should generate with four options where user has to select the one option at a time.

### Rules for the game:

While playing the game the user will have three life lines to save them which can be used only once for the particular user.

- **50-50:** Out of the four options the two wrong answers will get erased, which makes only two options available for the user.
- **Flip:** If the user feels he/she can't answer the question then they can flip the question and other question should generate automatically.

The application will provide functions:

Admin: Entering the question for the quiz, modifying the question, deleting the question. Can view the report of the entire user who had played the game along with their prize money

Player: Creating their account before playing the game. Can view the rules of the game. Play the game and view result of game.

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|                            |   |                 |
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### 3 CUSTOMER REQUIREMENT SPECIFICATION

#### 3.1 List of input to the system

**Player:** User account in the system

- Playername: player name.
- Password: password.
- Gender: gender of player.
- Address: address of player.
- Birthday: birthday of player
- Email: email of player.
- Totalprizemoney: total prize money of player.
- Status: player's account status (1: enable, 0: disable).

**QuestionAnswer:** Information about question and answer of table

- Questionid: id question.
- Questionname: name question.
- Category: category of question.
- AnswerA: answer A
- AnswerB: answer B
- AnswerC: answer C
- AnswerD: answer D
- AnswerRight: answer right of question.

**SetQuestion:** Set of question for the game

- Setid
- Questionid: id question.
- Questionname: name question.
- Category: category of question.
- AnswerA: answer A
- AnswerB: answer B
- AnswerC: answer C
- AnswerD: answer D
- AnswerRight: answer right of question.

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**PlayGame:** Information about play the game

- Testid: id.
- Playername: player name of table Player (foreign key of Player).
- CategoryQuestion: category of question

**Result:** Information about result of player

- Resultid: id result.
- Testid: id number of table Test (foreign key of PlayGame)
- Prizemoney: prize money of player
- QuantityAnsRight: quantity answer right

**Admin:** Admin account in the system

- Adminname: admin name
- Gender: gender of player.
- Password: password.
- Email: email of admin
- Address: address of admin
- Birthday: birthday of admin
- Status: admin's account status (1: enable, 0: disable).

**PrizeMoney:** Information about prize money prize

- QuestionOrder: Question order
- AnswerRight: Right answer value

**GameRule:** Rule for the game

- Helpname: Help name
- Description: Description for help

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### **3.2 List of output expected from the system**

#### **For Client**

- Display information about player
- Display rules for game
- Display prize money format
- Display result of test
- Display category of question

#### **For Admin**

- Display the player's test results

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### **3.3 Overview of processes involved in the system**

#### **For Client**

- View information of player.
- View rules for the game and prize money format.
- View the player's test result.
- Login and Register account.
- Modify self-account.
- Choose category of question
- Play the game.

#### **For Admin**

- View the player's test result.
- View, add, modify and delete question and answer.
- View, update, manage and delete account of player.

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### **3.4 Hardware and software required for implementing the project**

#### **Hardware**

|                     |  |
|---------------------|--|
| CPU                 | 1.8 GHz or faster processor. Quad-core or better recommended.                              |
| Ram                 | 4 GB of RAM. 8 GB of RAM recommended.  |
| Hard disk space     | Minimum of 800MB up to 256 GB or more of available space depending on increasing database. |
| Hard disk speed     | To improve performance, install Operating System and project run on SSD drive.             |
| Display screen size | Supports a minimum display 1600 x 900  |

#### **Environment**

|                  |   |
|------------------|---|
| Operating system | Project will install and run on the following operating systems(Windows 10 64 bit recommended)                      |
| Environment      | Java 8 (version 1.8.0_231)  |
| Database server  | Microsoft SQL Server (SQL Server 2016 recommended). Microsoft SQL Server Management Studio 18 for managing database |

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| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Customer Acceptance Criteria</b> | <b>SWD/Form No. 2B</b> |
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## 4 CUSTOMER ACCEPTANCE CRITERIA

### For Client

- Players can view information about self-account.
- Players can view rules for the game.
- Players can view prize money format.
- Players can view their result of test.
- Players can modify information self-account.
- Players can register, account will create automatically with information that player registered.
- Player can choose category of question want to test.
- Player can play game.

### For Admin

- Admin can view the players of result.
- Admin can view, add, update and delete question and answer.
- Admin can view, add, update, delete account of player

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| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Project Plan</b> | <b>SWD/Form No. 3</b> |
| <b>Effective Date: 10/15/2020</b> | <b>Version: 1.0</b>                | <b>Page 1 of 3</b>    |

## 5 PROJECT PLAN

### 5.1 Project details

#### 5.1.1 Name Project

KBC Quiz – Game Quiz Online

#### 5.1.2 Date of Project Plan:

- Starting: 10/15/2020
- Ending: 11/28/2020

#### 5.1.3 Project Vision/Objectives

Develop an online quiz game with the entertainment purpose where everyone can play the game. Through each test, everyone can check self-knowledge, learn a lot of new knowledge to advance IQ self.

#### 5.1.4 Scope

Play the game, test self-knowledge, learn a lot of new knowledge, advance IQ self.

#### 5.1.5 Our understanding about the Client organization

KBC Quiz an online quiz game for everyone plays the game. Anyone can play games just need you to register an account. The player can choose category of question for a test. When a test finishes, the player can view detailed test results.

#### 5.1.6 Project with Organization with Responsibilities and Authorities

- Truong Thi Minh Thuy – Leader: System, database analysis and design, coding, testing
- Dieu Dang Phu – Member: Coding
- Doan Trong Nhon – Member: Coding

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## 5.2 Project initiation/Requirement Documents

- Java SE JDK 8: <https://docs.oracle.com/javase/8/>
- NetBeans IDE 8.2:  
<https://docs.oracle.com/netbeans/nb82/netbeans/index.html>
- Java Swing: <https://docs.oracle.com/javase/8/docs/technotes/guides/swing/>
- SQL Server: <https://docs.microsoft.com/en-us/sql/sql-server/?view=sql-server-ver15>
- JDBC Driver for SQL Server: <https://docs.microsoft.com/en-us/sql/connect/jdbc/microsoft-jdbc-driver-for-sql-server?view=sql-server-ver15>
- IText Java: <https://www.tutorialspoint.com/itext/index.htm>
- BCrypt: <https://docs.spring.io/spring-security/site/docs/current/api/org/springframework/security/crypto/bcrypt/BCrypt.html>

## 5.3 Deliverable

- Application
- User guide
- Project document

## 5.4 Project dependencies

- Lacking of time
- Illness or family busy
- Members slow process or out of the project

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## 5.5 Major project prototype

KBC Quiz – Game online quiz

## 5.6 Quantity plan

- Review activities:** At least 3 times a week, each meeting there is a check for each member in group to review processing, help to solve hard trouble.
- Testing activities:** Create some account players for tests.
- Backup and recovery strategies:** One copy is stored in Github and each member store one copy in their own computer.

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|                                   |                                     |                       |
|-----------------------------------|-------------------------------------|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: GUI Standards</b> | <b>SWD/Form No. 4</b> |
| <b>Effective Date: 10/17/2020</b> | <b>Version: 1.0</b>                 | <b>Page 1 of 2</b>    |

## 6 GUI STANDARDS DOCUMENTATION

### 6.1 Project documentation

- Document theme and Color scheme: Slide – Basic (Elegant)
- Background color: White
- Font size: 13
- Font color: Black
- Font style: Time New Roman
- Text alignment: Justify
- Heading 1: font size 16, font style bold, capitalize letter
- Heading 2: font size 15, font style bold
- Heading 3: font size 13, font style bold

### 6.2 User interface

#### Root

- Font family: “Time New Roman”
- Font size: 15
- Text fill: black

**BoxLayout, BorderLayout, CardLayout, FlowLayout, GirdBagLayout, GroupLayout, SpringLayout, AbsoluteLayOut**

- Padding: 6
- Spacing: 10
- Alignment: center
- H-gap: 10
- V-gap: 10

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| Effective Date: 10/17/2020 | Version: 1.0                | Page 2 of 2    |

**Button**

- Text fill: black
- Background color: rgb(153,255,153)
- Text alignment: center
- Row v-alignment: middle
- Border width: 1
- Padding: 5,20,0,20
- Content display: center
- Alignment: center

**Field, Date Picker, Radio Button, Combo Box**

- Font-family: "Time New Roman"
- Width: 400

**Wrapper**

- Background image: using image
- Background repeat: no-repeat
- Background size: cover
- Background position: center

**Container**

- Background color: #98FB98
- Border color: black
- Padding: 10

**Title**

- Font size: 25
- Text fill: black

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| Design Plan: KBC Quiz      | Document Name: Interface Design | SWD/Form No. 5 |
| Effective Date: 10/26/2020 | Version: 1.0                    | Page 1 of 20   |

## 7 INTERFACE DESIGN DOCUMENT

Using Java Swing for design view of application

### 7.1 Welcome Player form

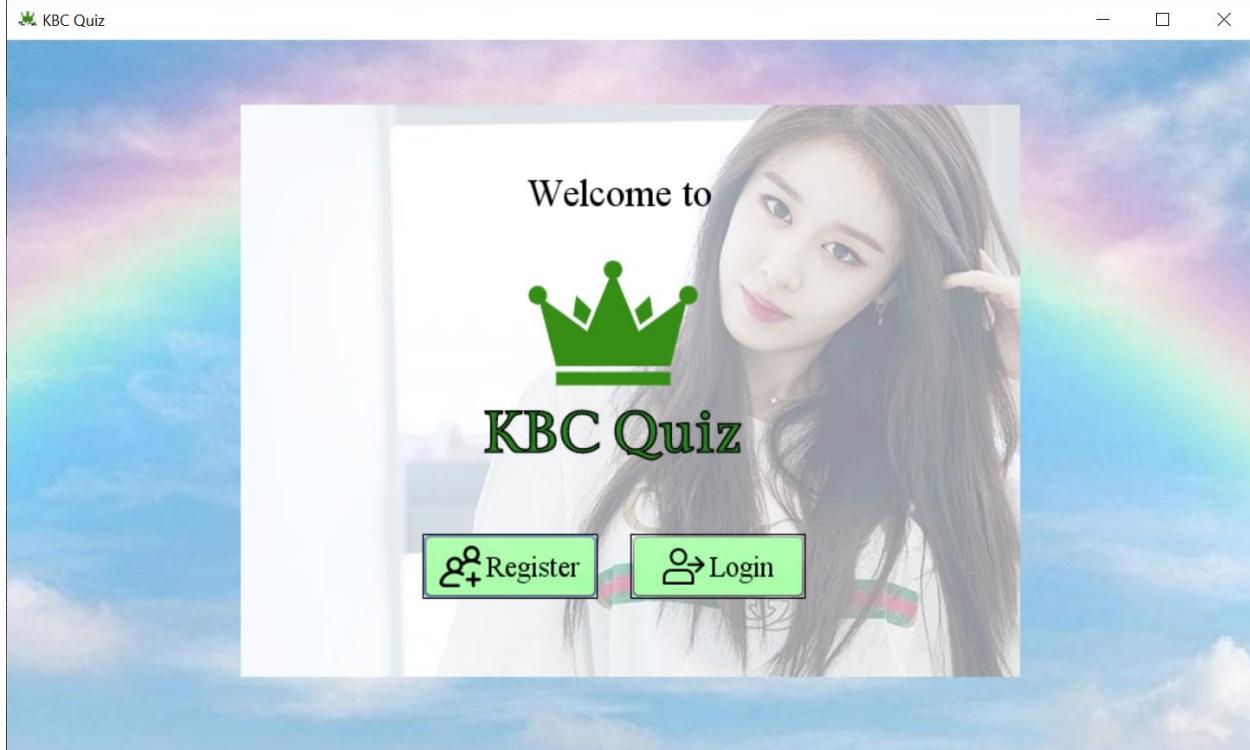


Figure 1: Welcome form

| Name Control    | Description        |
|-----------------|--------------------|
| Register button | Call register form |
| Login button    | Call login form    |

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## 7.2 Register Form

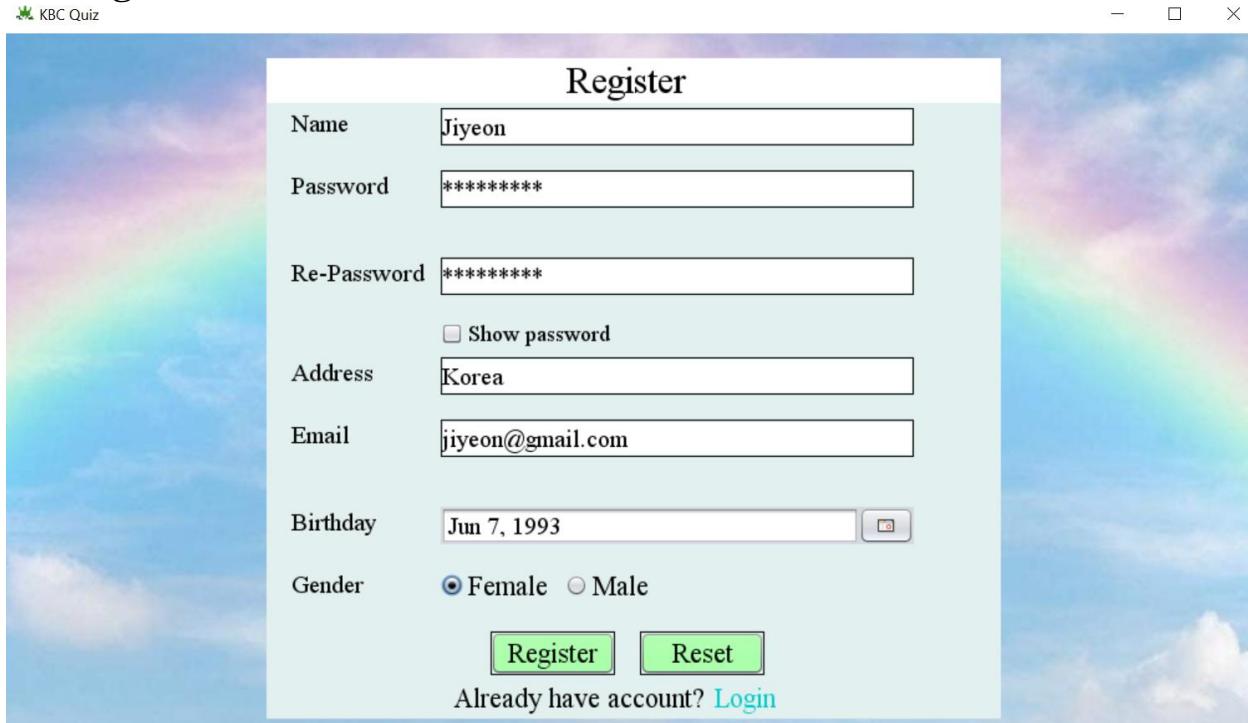


Figure 2: Register form

| Name Control        | Description          |
|---------------------|----------------------|
| Name text field     | Enter name           |
| Password field      | Enter password       |
| Re-password field   | Re-enter password    |
| Female radio button | Select female gender |
| Reset button        | Clear all text field |
| Login jlabel        | Cal login form       |

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|                     |                       |
|---------------------|-----------------------|
| Male radio button   | Select male gender    |
| Birthday date piker | Select birthday       |
| Address text field  | Enter address         |
| Email text field    | Enter email           |
| Register button     | Click for registering |

### 7.3 Login form

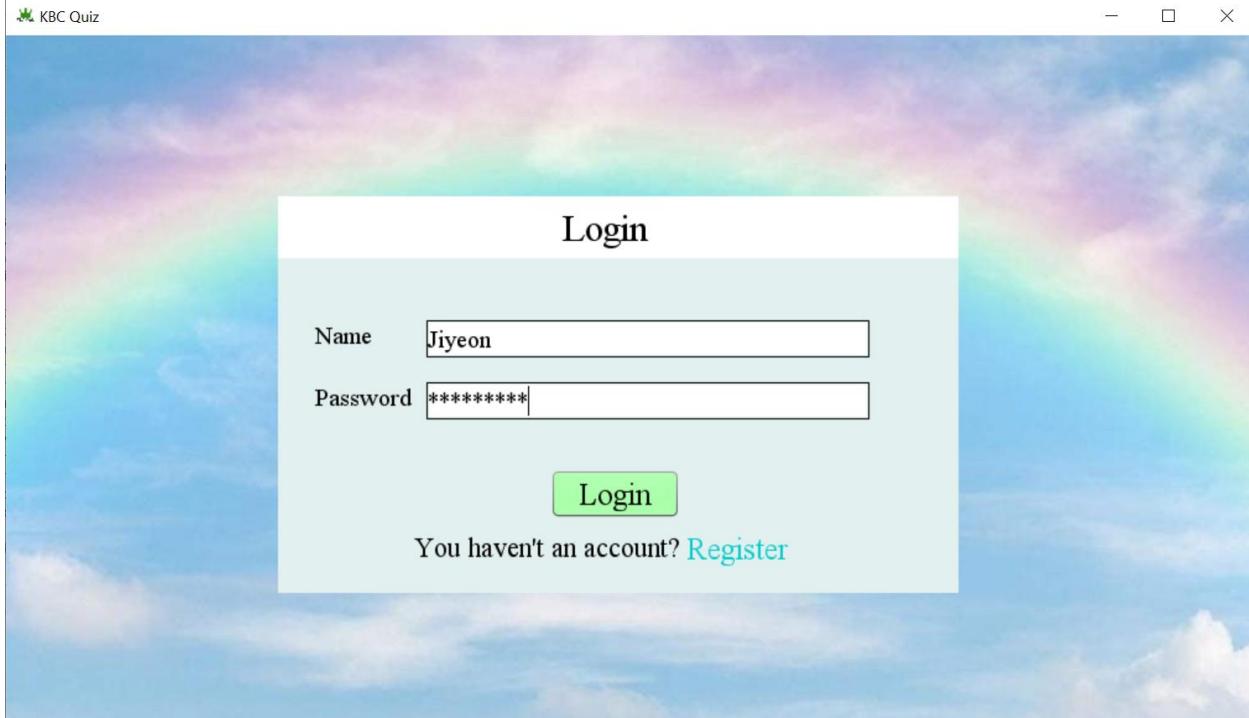


Figure 3: Login form

| Date       | Prepared By (Student) | Approved By (Teacher) |
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|                            |                                 |                |
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| Name Control    | Description        |
|-----------------|--------------------|
| Name text field | Enter name         |
| Password field  | Enter password     |
| Login button    | Login system       |
| Register jlabel | Call Register form |

## 7.4 View Information Account form

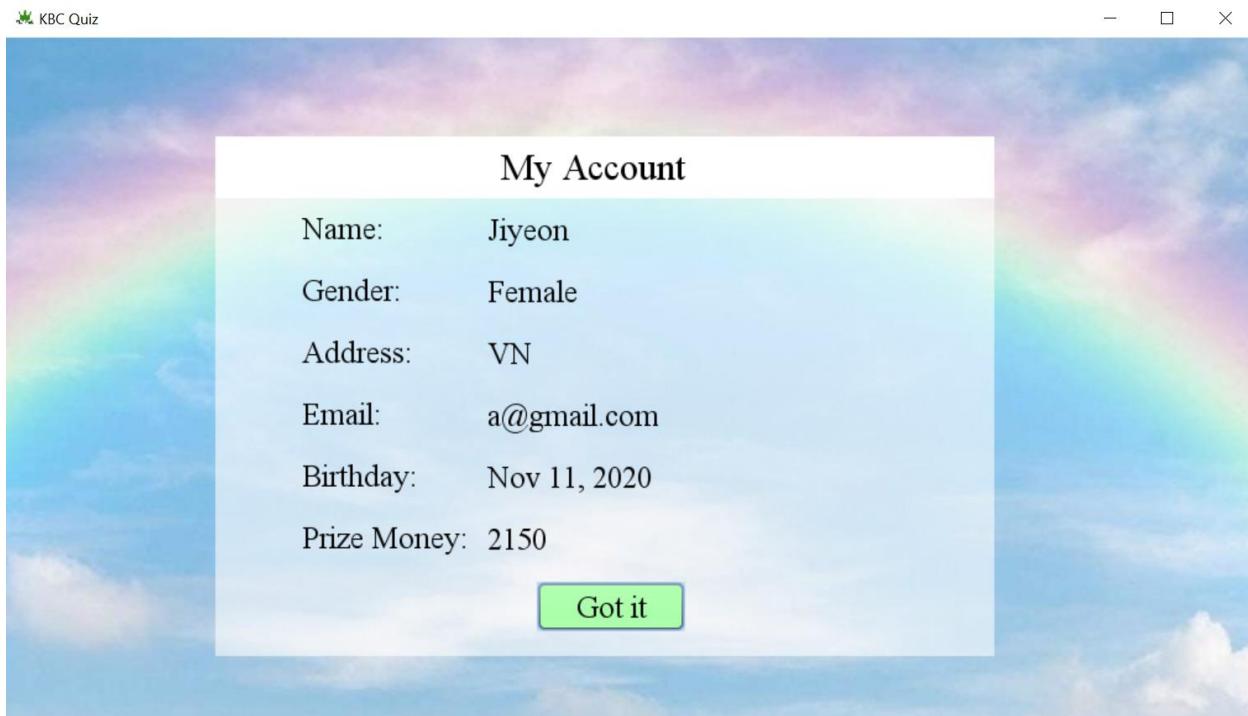


Figure 4: View information account form

| Date       | Prepared By (Student) | Approved By (Teacher) |
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| Name Control      | Description         |
|-------------------|---------------------|
| Name label        | Display name        |
| Gender label      | Display gender      |
| Birthday label    | Display birthday    |
| Email label       | Display email       |
| Address label     | Display address     |
| Prize Money label | Display prize money |
| Got it button     | Call Menu form      |

## 7.5 Update Account player form

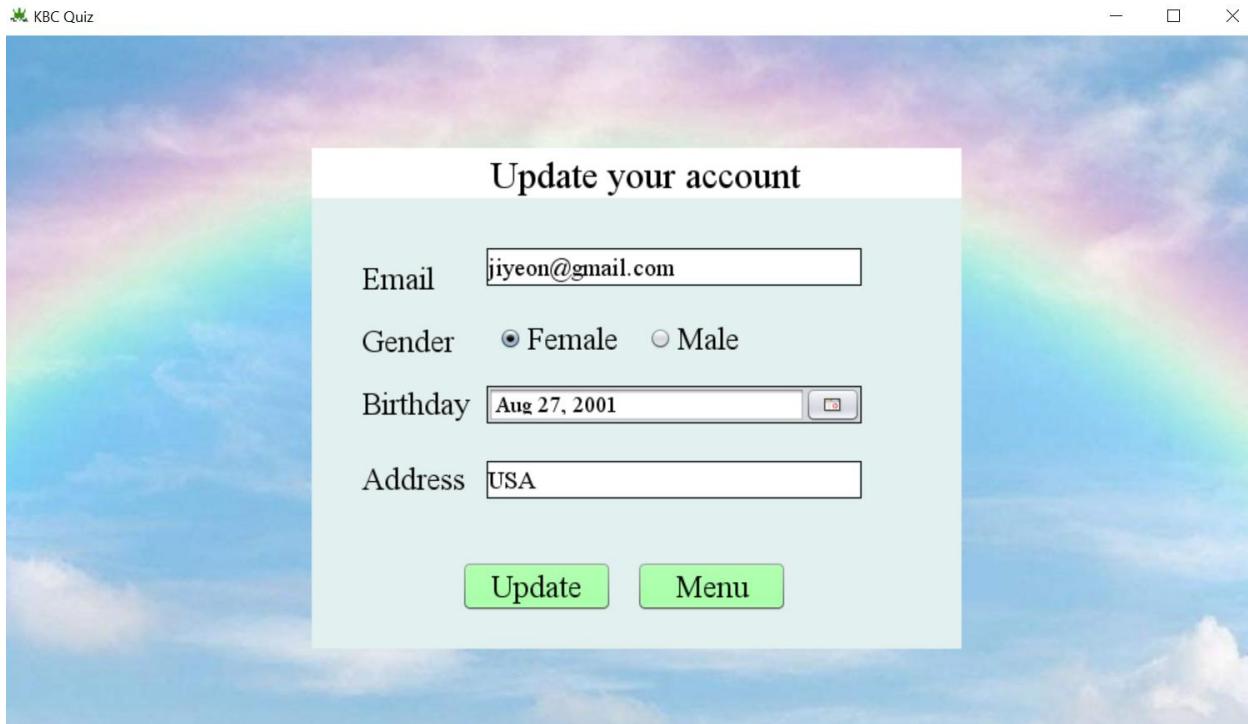


Figure 5: Update account player form

| Date       | Prepared By (Student) | Approved By (Teacher) |
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|                                   |  |                       |
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| <b>Name Control</b> | <b>Description</b>              |
|---------------------|---------------------------------|
| Name text field     | Enter name                      |
| Female radio button | Select female gender            |
| Male radio button   | Select male gender              |
| Email text field    | Enter email                     |
| Address text field  | Enter Address                   |
| Update button       | Update for changing information |
| Menu button         | Call Menu form                  |

## 7.6 Change password form

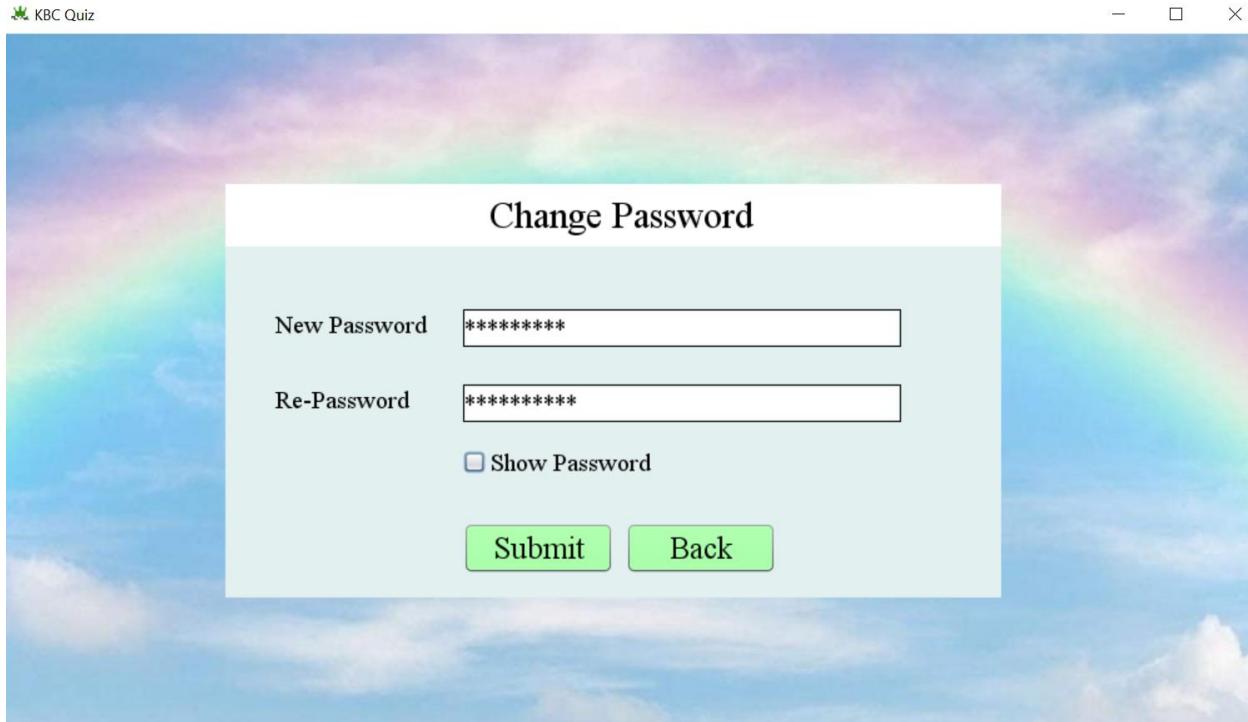


Figure 6: Change password form

| <b>Date</b> | <b>Prepared By (Student)</b> | <b>Approved By (Teacher)</b> |
|-------------|------------------------------|------------------------------|
| 10/23/2020  | Truong Thi Minh Thuy         | Luong The Anh                |

|                                   |  |                       |
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| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
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| <b>Name Control</b>   | <b>Description</b>           |
|-----------------------|------------------------------|
| New password field    | Enter new password           |
| Repeat password field | Enter repeat password        |
| Submit button         | Submit for changing password |
| Back button           | Call Menu form               |

## 7.7 Rule for the game form

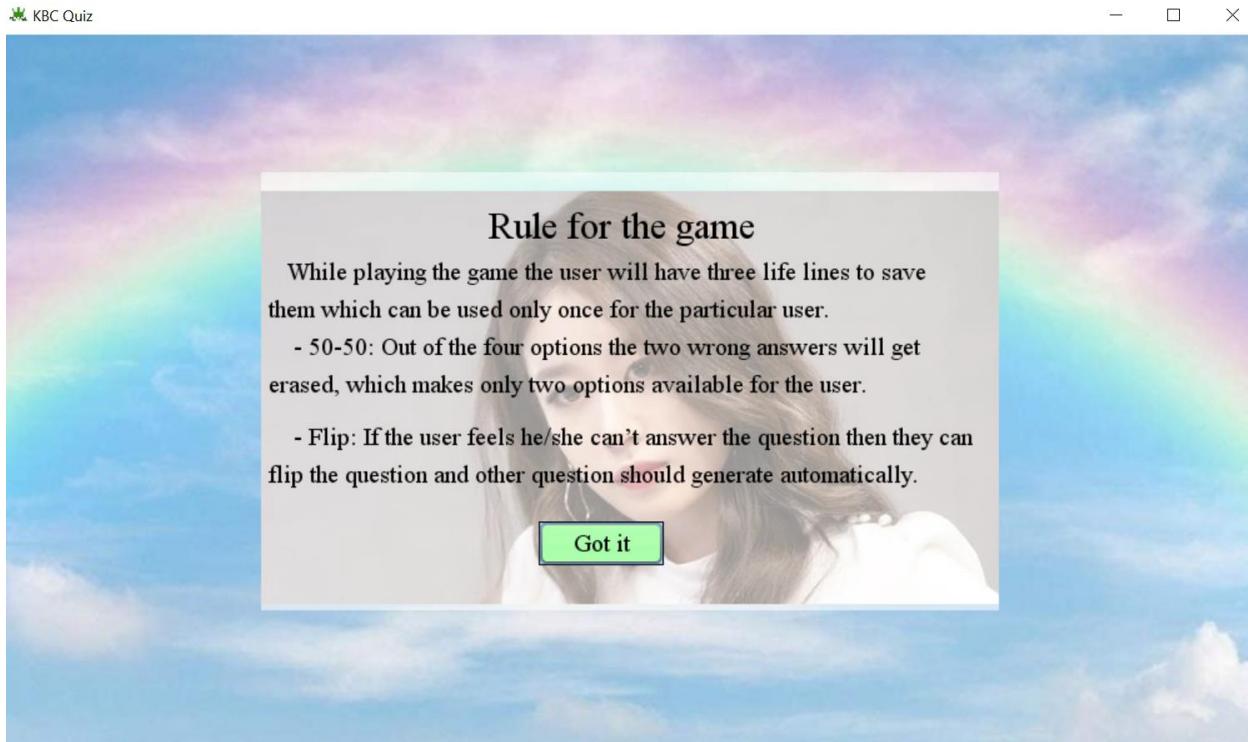


Figure 7: Rule for the game form

| <b>Date</b> | <b>Prepared By (Student)</b> | <b>Approved By (Teacher)</b> |
|-------------|------------------------------|------------------------------|
| 10/23/2020  | Truong Thi Minh Thuy         | Luong The Anh                |

|                            |                                 |                |
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## 7.8 Prize money format form

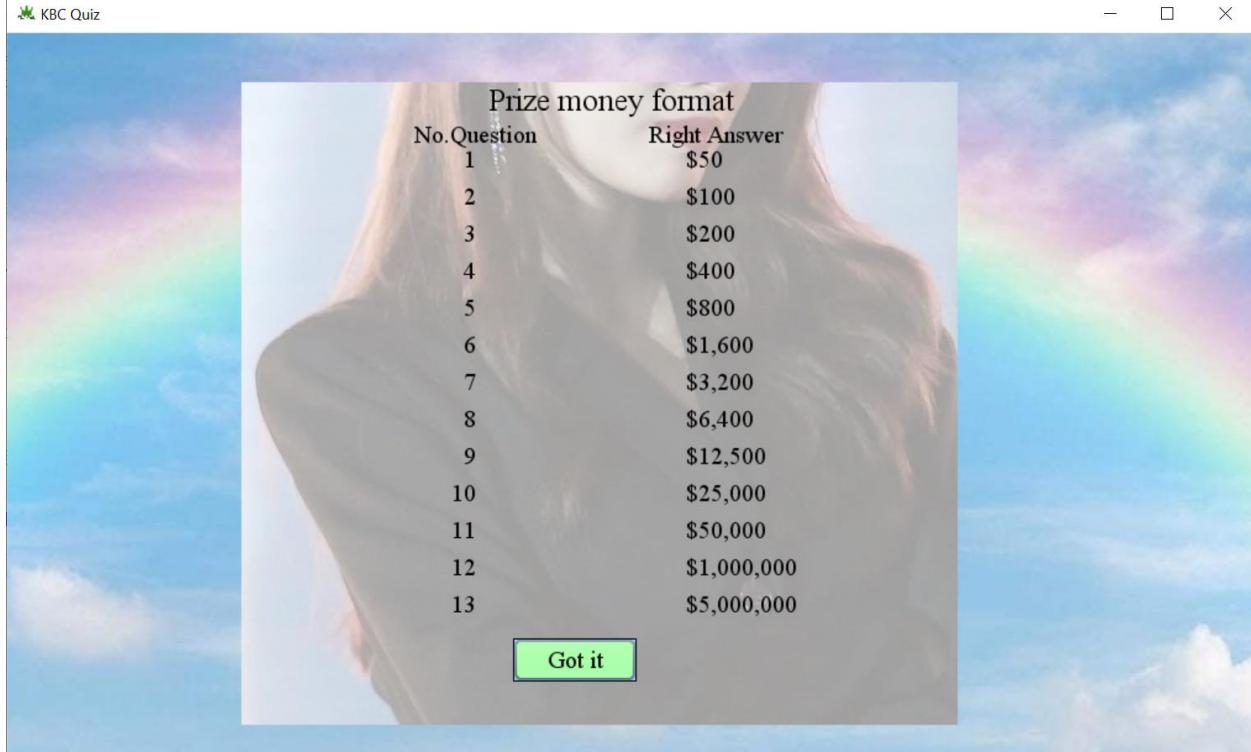


Figure 8: Prize money format form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                                   |  |                       |
|-----------------------------------|--|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
| <b>Effective Date: 10/23/2020</b> | <b>Version: 1.0</b>                    | <b>Page 9 of 20</b>   |

## 7.9 Result form

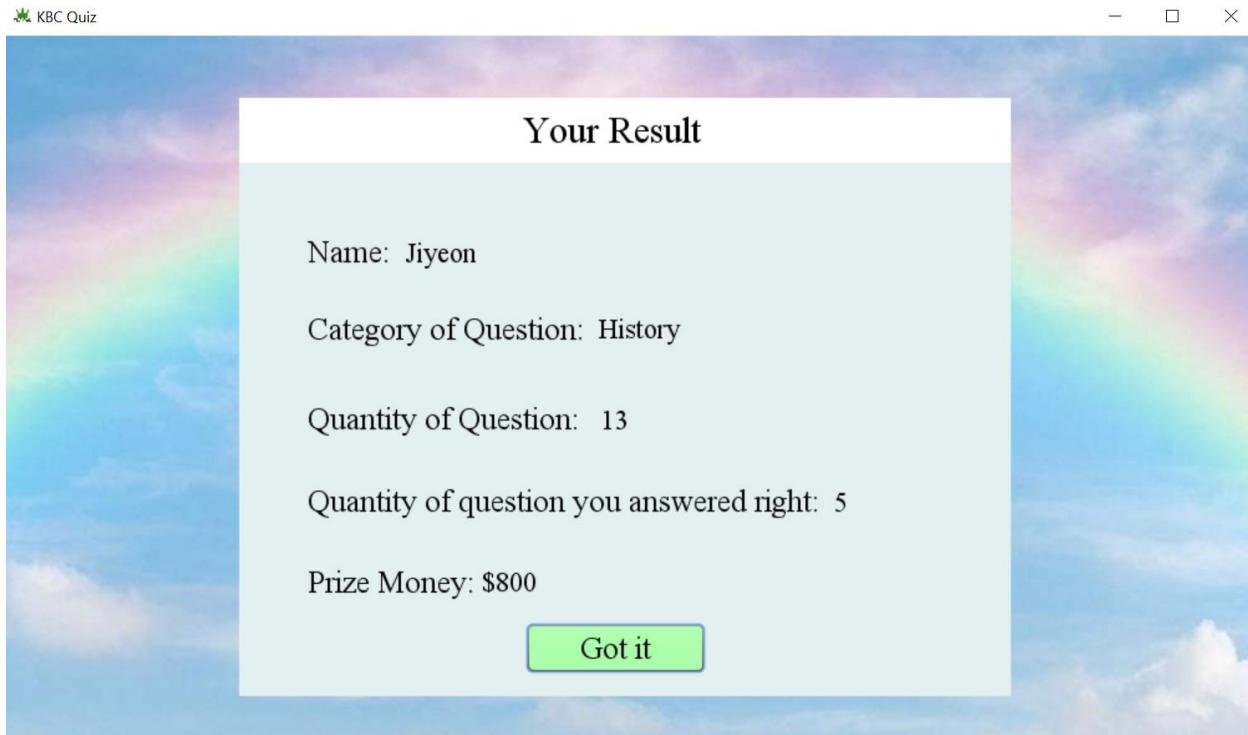


Figure 9: Result form

| <b>Name Control</b>                           | <b>Description</b>                          |
|---|---|
| Name label                                    | Display name                                |
| Category of Question label                    | Display category of question                |
| Quantity of Question label                    | Display quantity of question                |
| Quantity of Question you answered right label | Display quantity of question answered right |
| Prize money label                             | Display prize money                         |
| Got it button                                 | Call Menu form                              |

| <b>Date</b> | <b>Prepared By (Student)</b> | <b>Approved By (Teacher)</b> |
|-------------|------------------------------|------------------------------|
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## 7.10 Choice a category of question for the game form

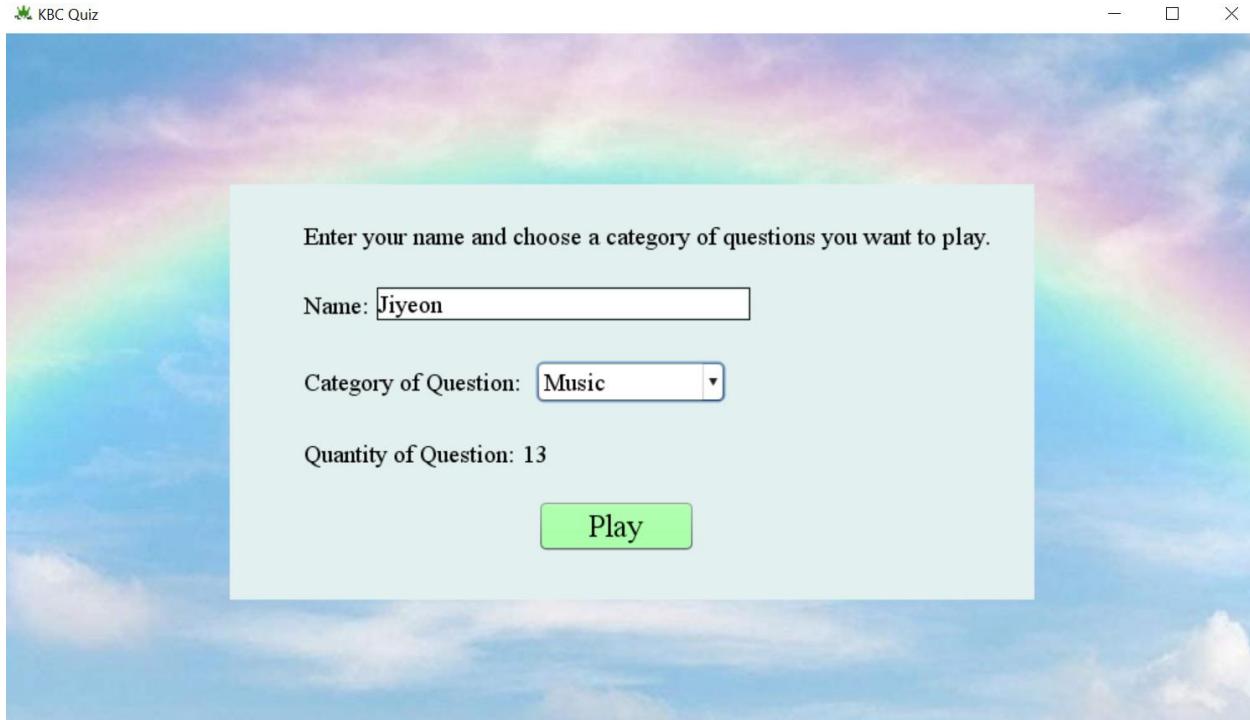


Figure 10: Enter name choice a category for the game form

| <b>Name Control</b>        | <b>Description</b>            |
|----------------------------|-------------------------------|
| Name button                | Enter name                    |
| Category of question list  | Select a category of question |
| Quantity of question label | Display quantity of question  |
| Play button                | Call play game form           |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|-----------------------------------|--|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
| <b>Effective Date: 10/23/2020</b> | <b>Version: 1.0</b>                    | <b>Page 11 of 20</b>  |

## 7.11 Play game form

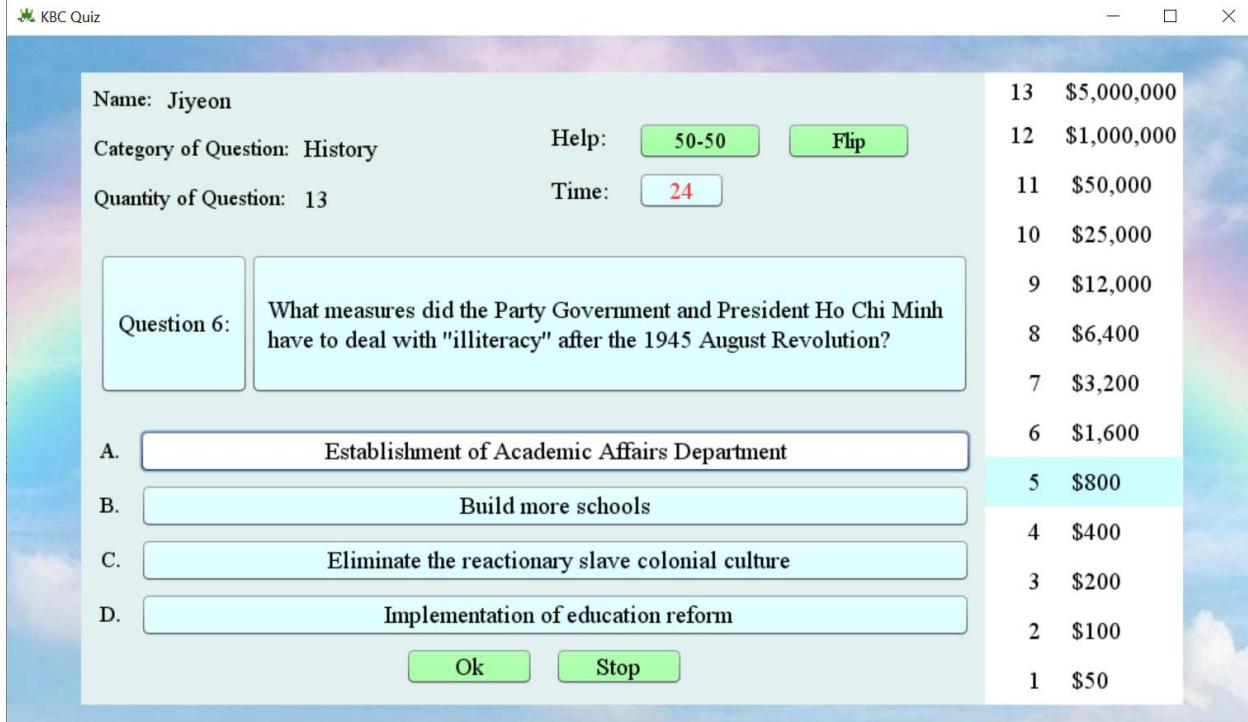


Figure 11: Play game form

| Name Control               | Description                  |
|----------------------------|------------------------------|
| Name label                 | Display name                 |
| Category of question label | Display category of question |
| Quantity of question label | Display quantity of question |
| 50-50 button               | Call help 50-50              |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                                   |  |                       |
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|                  |                       |
|------------------|-----------------------|
| Flip button      | Call help flip        |
| Time button      | Countdown time        |
| Question 1 label | Display question name |
| A button         | Click on the answer A |
| B button         | Click on the answer B |
| C button         | Click on the answer C |
| D button         | Click on the answer D |
| Stop button      | Call result form      |
| Ok button        | Choose answer         |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                            |                                 |                |
|----------------------------|---------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Interface Design | SWD/Form No. 5 |
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## 7.12 Manage account player form

| Playername | Password   | Gender | Address | Email          | Birthday      | Totalprizem... | Status |
|------------|------------|--------|---------|----------------|---------------|----------------|--------|
| Boram      | Boram278   | female | Korea   | boram@gma...   | Mar 22, 1986  | 10000          | 1      |
| EunJung    | EunJung278 | Female | Korea   | eunjung@g...   | Dec 12, 1988  | 20000          | 1      |
| Hyomin     | Jiyeon7693 | Female | Korea   | hyomin@gm...   | May 30, 1990  | 20000          | 1      |
| Jiyeon     | Jiyeon278  | Female | Korea   | jiyeon@gma...  | June 07, 1993 | 5000           | 1      |
| Joy        | Joynt278   | female | US      | joy@gmail.c... | Jun 27, 1990  | 5000           | 1      |
| Qri        | LeeQri278  | Female | Korea   | qri@gmail.c... | Dec 12, 1986  | 6000           | 1      |
| SongHyekyo | Hyekyo278  | Female | Korea   | hyekyo@gm...   | November 2... | 50000          | 1      |
| Soyeon     | Jiyeon7693 | Female | Korea   | soyeon@gm...   | Nov 6, 1990   | 10000          | 1      |

Figure 12: Manage account player form

| Name Control              | Description         |
|---------------------------|---------------------|
| Menu button               | Call Menu form      |
| Delete button             | Disable account     |
| Insert button             | Insert new account  |
| Update button             | Update account      |
| Account Player List lable | Display player list |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                                   |  |                       |
|-----------------------------------|--|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
| <b>Effective Date: 10/23/2020</b> | <b>Version: 1.0</b>                    | <b>Page 14 of 20</b>  |

|                             |                   |
|-----------------------------|-------------------|
| Playername textfield        | Enter name        |
| Gender textfield            | Select gender     |
| Address textfield           | Enter address     |
| Email textfield             | Enter email       |
| Total prize money textfield | Enter prize money |
| Status textfield            | Enter status      |

### 7.13 Manage account admin form

KBC Quiz

| Adminname | Password    | Gender | Address | Email            | Birthday       | Status |
|-----------|-------------|--------|---------|------------------|----------------|--------|
| MinhThuy  | MinhThuy278 | Female | VN      | minhthuy@gm...   | Aug 27, 2001   | 1      |
| Sunflower | MinhThuy278 | Female | Can Tho | minhthuysunfl... | August 27,2001 | 1      |

Figure 13: Manage account admin form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/23/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

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| <b>Name Control</b>      | <b>Description</b> |
|--------------------------|--------------------|
| Menu button              | Call Menu form     |
| Delete button            | Disable account    |
| Insert button            | Insert new account |
| Update button            | Update account     |
| Account Admin List lable | Display admin list |
| Adminnname textfield     | Enter name         |
| Gender textfield         | Select gender      |
| Address textfield        | Enter address      |
| Email textfield          | Enter email        |
| Status textfield         | Enter status       |

| <b>Date</b>       | <b>Prepared By (Student)</b> | <b>Approved By (Teacher)</b> |
|-------------------|------------------------------|------------------------------|
| <b>10/23/2020</b> | <b>Truong Thi Minh Thuy</b>  | <b>Luong The Anh</b>         |

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|-----------------------------------|--|-----------------------|
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## 7.14 Manage result form



Figure 14: Manage result form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/23/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                                   |  |                       |
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| Name Control                 | Description         |
|------------------------------|---------------------|
| Back menu button             | Call menu form      |
| Information result of player | Display result list |

## 7.15 Manage Question form

KBC Quiz

| Questionid | Questionname     | Category | AnswerA          | AnswerB          | AnswerC          | AnswerD          | AnswerRight      |
|------------|------------------|----------|------------------|------------------|------------------|------------------|------------------|
| 1          | Which brand...   | Sport    | Puma             | Kappa            | Nike             | Adidas           | Adidas           |
| 2          | Allied armies... | History  | British and ...  | French and ...   | British Army...  | The French ...   | British Army...  |
| 3          | After the Au...  | History  | The ROC ar...    | French colon...  | British Empire   | Japanese fas...  | French colon...  |
| 4          | What is the ...  | History  | Disarmed th...   | Helping the r... | Hit the British  | Robbing my ...   | Robbing my ...   |
| 5          | He most seri...  | History  | Starvation       | ignorant ene...  | finance          | foreign invad... | foreign invad... |
| 6          | What is the f... | History  | Finance was ...  | The State B...   | Developmen...    | Finance depe...  | The State B...   |
| 7          | Cultural rem...  | History  | Culture has ...  | Modern cult...   | Culture is he... | More than 9...   | More than 9...   |
| 8          | The commo...     | History  | Defending t...   | bringing the ... | paved the w...   | vandalizing t... | vandalizing t... |
| 9          | What measu...    | History  | Establishme...   | Build more s...  | Eliminate th...  | Implementat...   | Establishme...   |
| 10         | In order to t... | History  | Increase pro...  | Making econ...   | Organizing "     | Redistributio... | Redistributio... |
| 11         | State of Viet... | History  | industrial an... | The entire p...  | workers and ...  | public and ag... | The entire p...  |
| 12         | What year w...   | Sport    | 1961             | 1962             | 1963             | 1964             | 1963             |

Figure 15: Edit question form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                                   |  |                       |
|-----------------------------------|--|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
| <b>Effective Date: 10/23/2020</b> | <b>Version: 1.0</b>                    | <b>Page 18 of 20</b>  |

| <b>Name Control</b>     | <b>Description</b>                  |
|-------------------------|-------------------------------------|
| Questionid text field   | Enter question id                   |
| Questionname text field | Enter question name                 |
| Category text field     | Enter category                      |
| AnswerA text field      | Enter answer                        |
| AnswerB text field      | Enter answer                        |
| AnswerC text field      | Enter answer                        |
| AnswerD text field      | Enter answer                        |
| Menu button             | Call menu form                      |
| Update button           | Call method update                  |
| Delete button           | Call method delete                  |
| Load button             | Call method read file load database |

| <b>Date</b> | <b>Prepared By (Student)</b> | <b>Approved By (Teacher)</b> |
|-------------|------------------------------|------------------------------|
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|-----------------------------------|--|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
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## 7.16 Menu form for Player

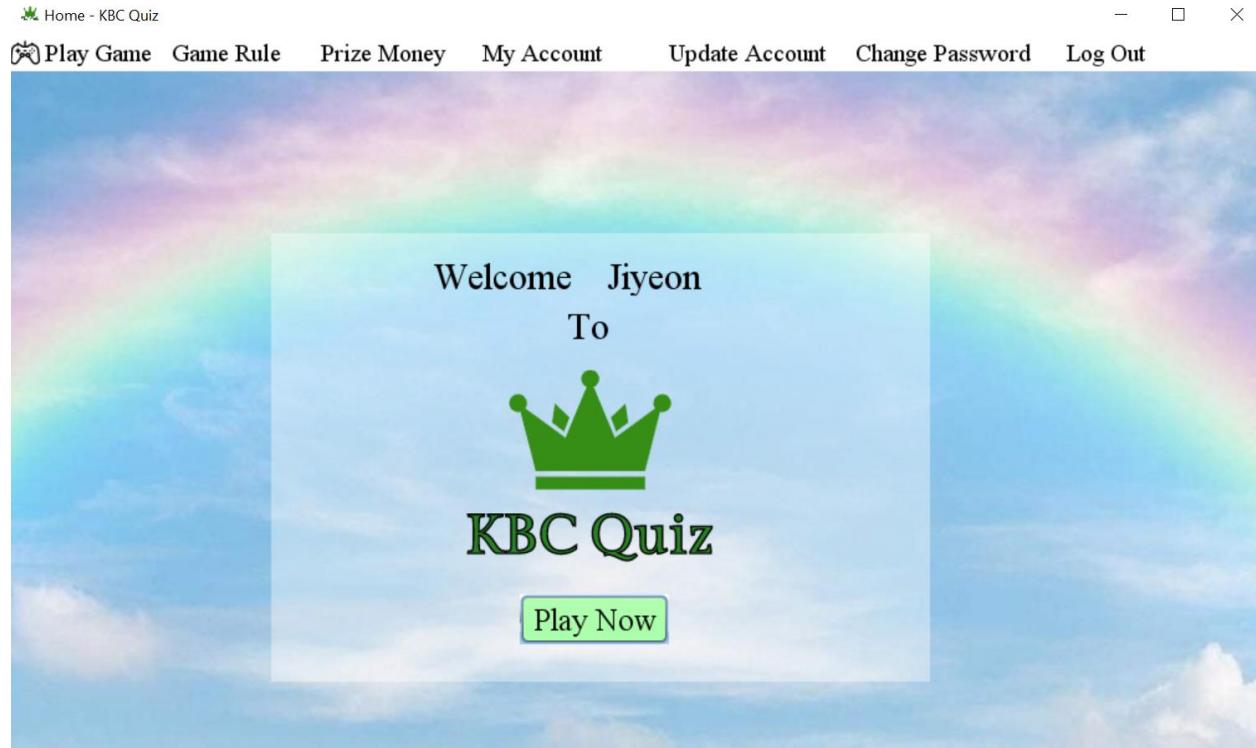


Figure 16: Menu form for Player

| Name Control      | Description               |
|-------------------|---------------------------|
| Play Game label   | Call Choose Category form |
| Game Rule label   | Call Game rule form       |
| Prize money label | Call Prize money form     |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                                   |  |                       |
|-----------------------------------|--|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
| <b>Effective Date: 10/23/2020</b> | <b>Version: 1.0</b>                    | <b>Page 20 of 20</b>  |

|                       |                             |
|-----------------------|-----------------------------|
| My Account label      | Call View info account form |
| Update account label  | Call Update account form    |
| Change password label | Call change password form   |
| Log out label         | Call welcome form           |
| Play Now button       | Call Choose Category form   |
| Welcome label         | Welcome to Player           |

## 7.17 Menu form for Admin



Figure 17: Menu form for Admin

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/23/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                                   |  |                       |
|-----------------------------------|--|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Interface Design</b> | <b>SWD/Form No. 5</b> |
| <b>Effective Date: 10/23/2020</b> | <b>Version: 1.0</b>                    | <b>Page 20 of 20</b>  |

| <b>Name Control</b>         | <b>Description</b>            |
|-----------------------------|-------------------------------|
| Manage player account label | Call Player account list form |
| Manage admin account label  | Call Admin account list form  |
| Manage question list label  | Call question list form       |
| Manage Result list label    | Call result list form         |
| My Account label            | Call view info account form   |
| Log out                     | Call welcome form             |
| Welcome label               | welcome to Admin              |

| <b>Date</b>       | <b>Prepared By (Student)</b> | <b>Approved By (Teacher)</b> |
|-------------------|------------------------------|------------------------------|
| <b>10/23/2020</b> | <b>Truong Thi Minh Thuy</b>  | <b>Luong The Anh</b>         |

|                                   |                                    |                       |
|-----------------------------------|------------------------------------|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Table Design</b> | <b>SWD/Form No. 6</b> |
| <b>Effective Date: 10/25/2020</b> | <b>Version: 1.0</b>                | <b>Page 1 of 2</b>    |

## 8 TABLE DESIGN DOCUMENTATION

| Name of the Table | Table Description                | Number of Fields | Primary key       | Related Tables                   | Foreign key                    |
|-------------------|----------------------------------|------------------|-------------------|----------------------------------|--------------------------------|
| Player            | Player account in the system     | 8                | Playerid          |                                  |                                |
| Admin             | Admin account in the system      | 7                | Adminid           |                                  |                                |
| QuestionAnswer    | Question and Answer for the game | 8                | Questionid        |                                  |                                |
| SetQuestion       | Set of Question for the game     | 9                | Setid             |                                  |                                |
| PlayGame          | Questions for the game           | 3                | Testid            | 1.Player<br>2.QuestionAnswe<br>r | 1.Playerid<br>2.Questio<br>nid |
| Result            | Resutl of player for the game    | 4                | Resultid          | 1.Player<br>2.PlayGame           | 1.Playerid<br>2.Testid         |
| GameRule          | Rule for the game                | 2                | Helpnname         |                                  |                                |
| PrizeMoney        | Prize money format               | 5                | QuestionO<br>rder |                                  |                                |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/23/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

| Design Plan: KBC Quiz      | Document Name: Table Design | SWD/Form No. 6 |
|----------------------------|-----------------------------|----------------|
| Effective Date: 10/25/2020 | Version: 1.0                | Page 2 of 2    |

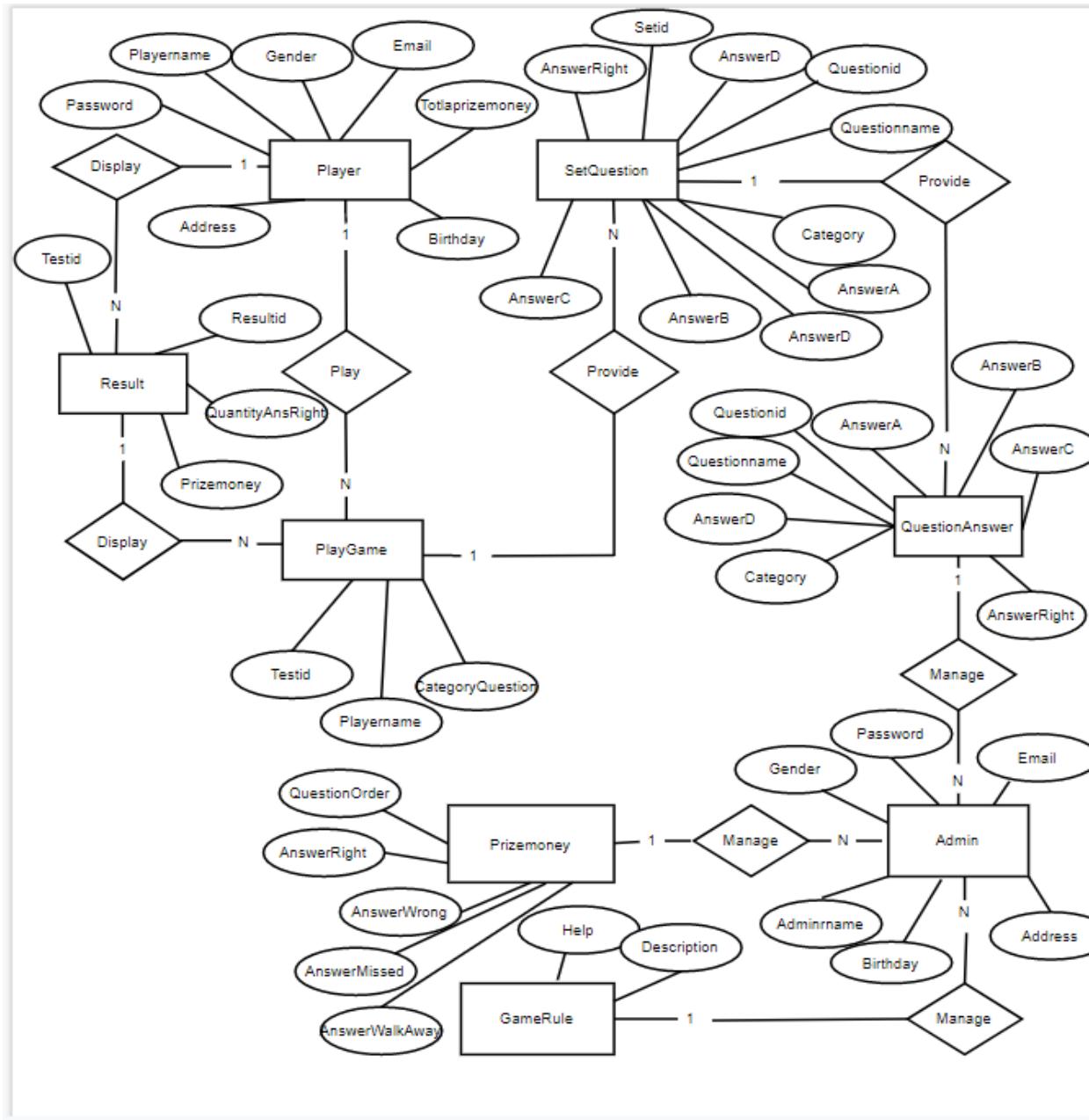


Figure 18: Entity relationship diagram

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                            |                               |                |
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| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 1 of 16   |

## 9 PROCESS DESIGN DOCUMENTATION

### 9.1 Context level

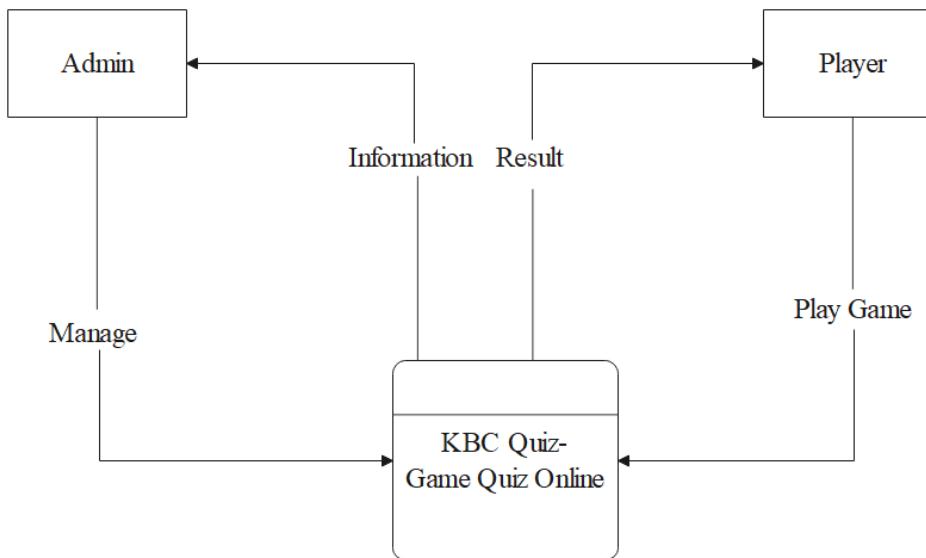


Figure 19: Context level

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                                   |                                      |                       |
|-----------------------------------|--------------------------------------|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Process Design</b> | <b>SWD/Form No. 7</b> |
| <b>Effective Date: 10/26/2020</b> | <b>Version: 1.0</b>                  | <b>Page 2 of 16</b>   |

## 9.2 Level 0

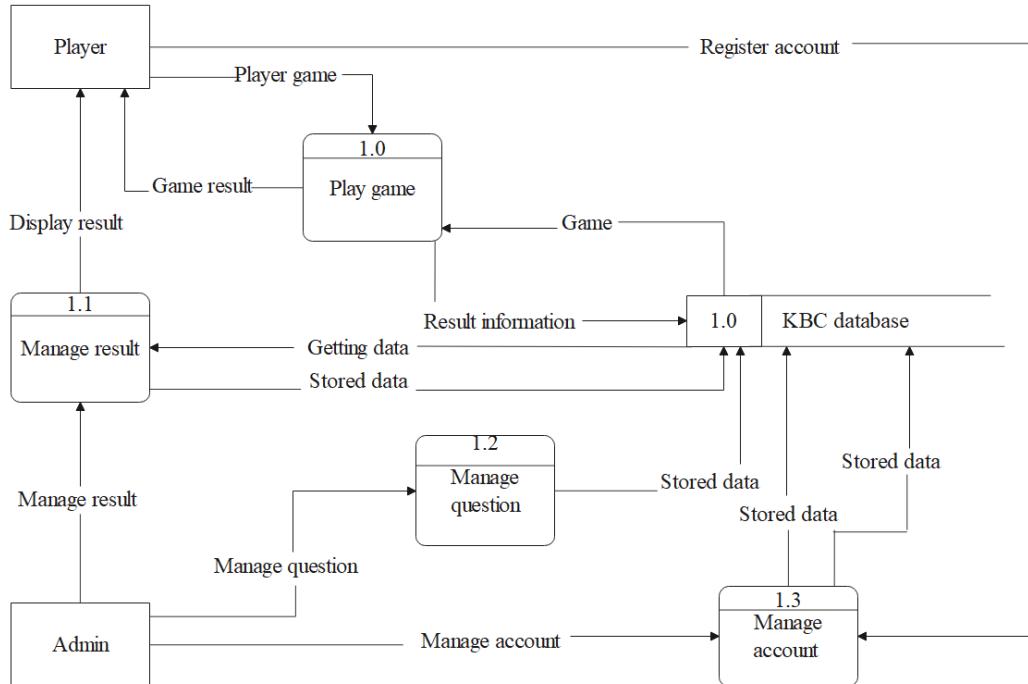


Figure 20 : Level 0 data flow diagram

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 3 of 16   |

### 9.3 Level 1

#### 9.3.1 Player

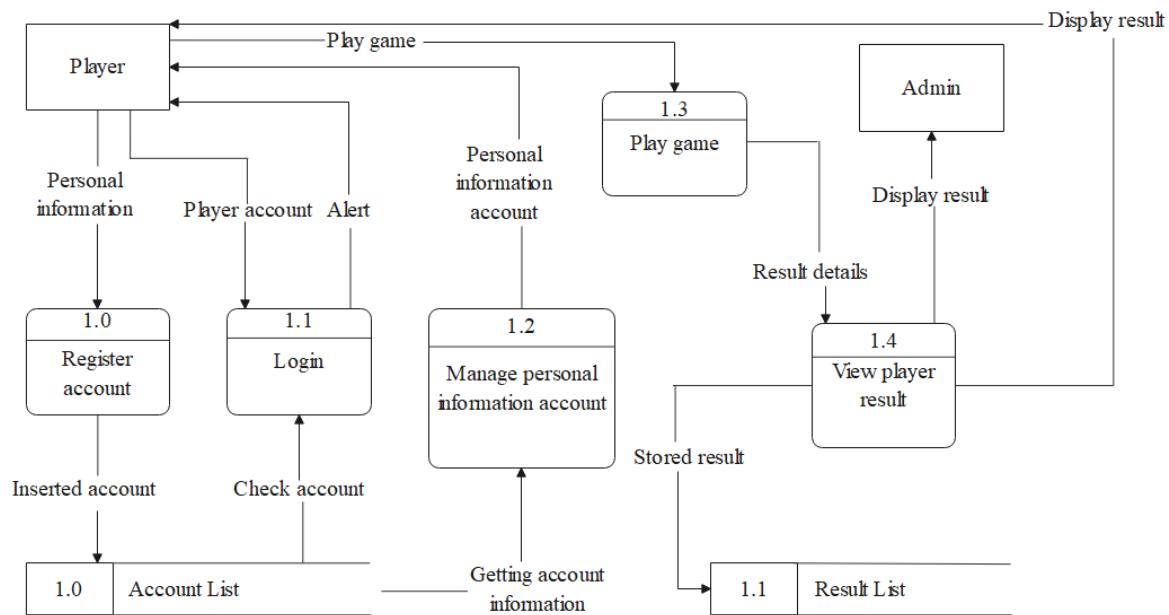


Figure 21 : Level 1 data flow diagram for player

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                                   |                                      |                       |
|-----------------------------------|--------------------------------------|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Process Design</b> | <b>SWD/Form No. 7</b> |
| <b>Effective Date: 10/26/2020</b> | <b>Version: 1.0</b>                  | <b>Page 4 of 16</b>   |

### 9.3.2 Admin

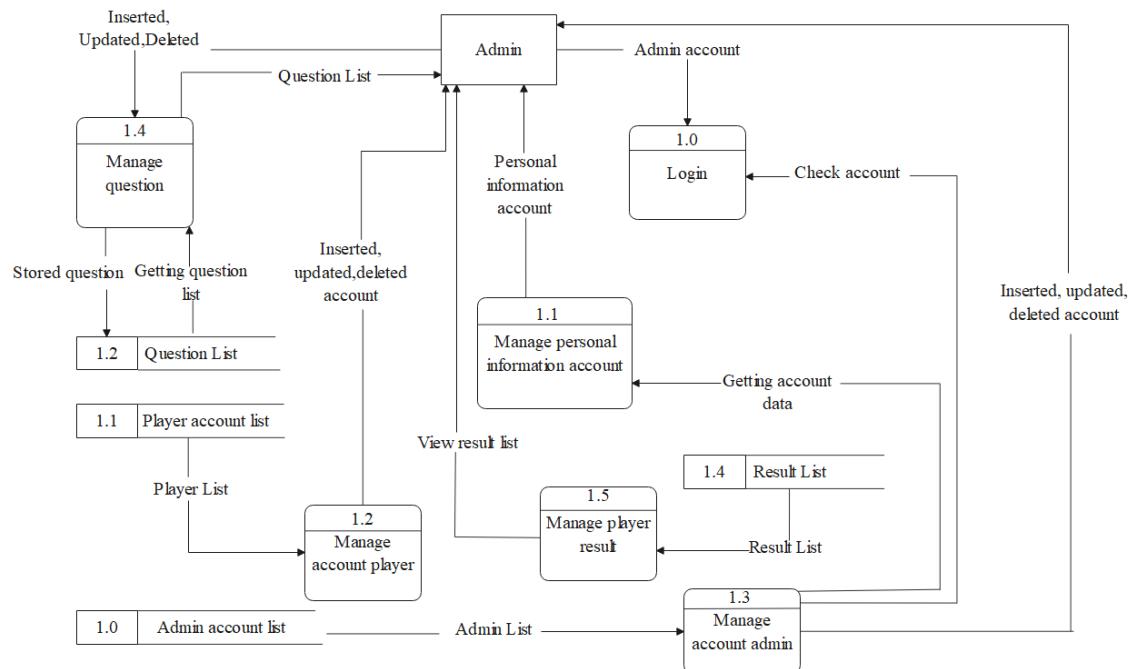


Figure 22 : Level 1 data flow diagram for admin

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                                   |                                      |                       |
|-----------------------------------|--------------------------------------|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Process Design</b> | <b>SWD/Form No. 7</b> |
| <b>Effective Date: 10/26/2020</b> | <b>Version: 1.0</b>                  | <b>Page 5 of 16</b>   |

## 9.4 Level 2

### 9.4.1 Player

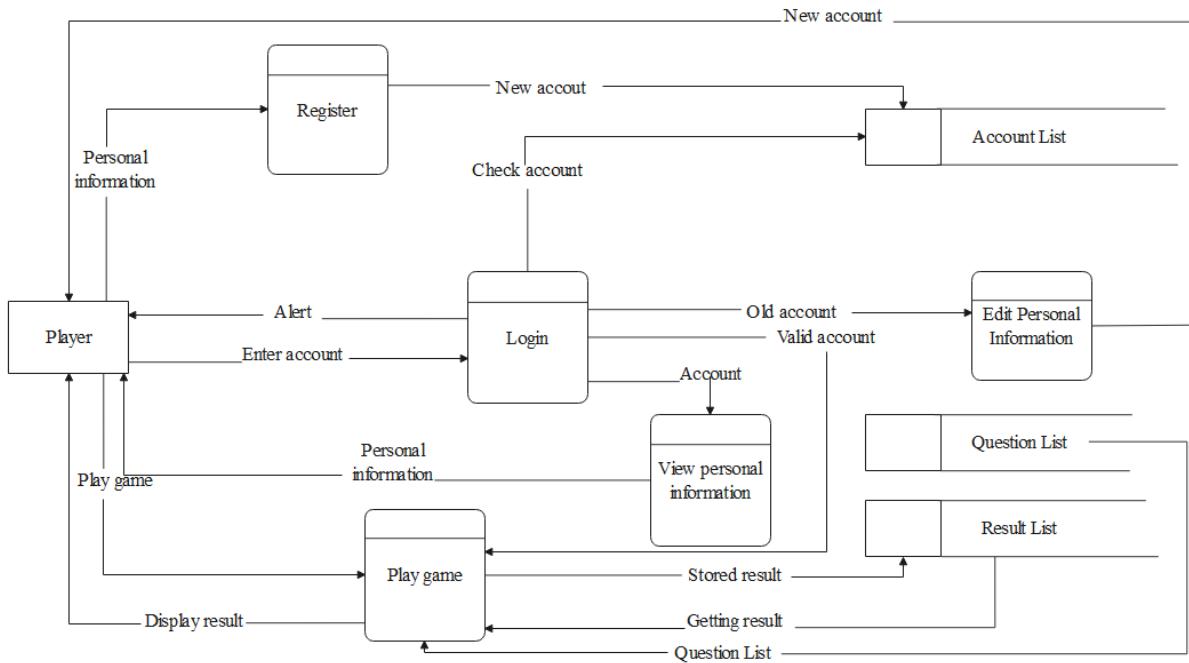


Figure 23: Level 2 data flow diagram for player

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 6 of 16   |

#### 9.4.2 Admin

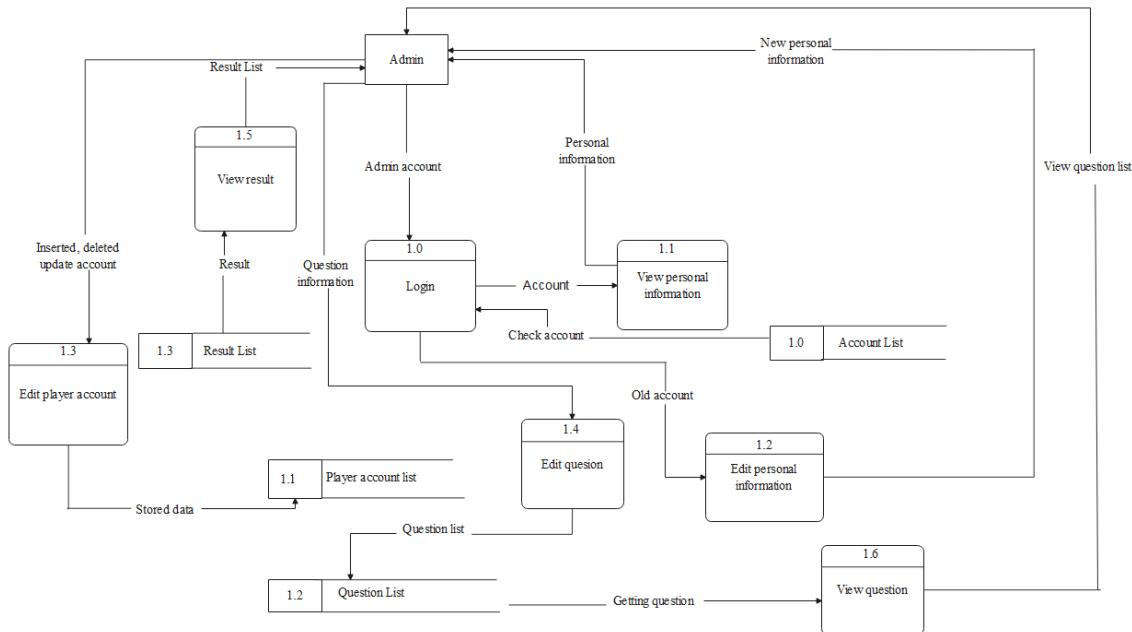


Figure 24 : Level 2 data flow diagram for admin

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 7 of 16   |

## 9.5 Flow chart diagram

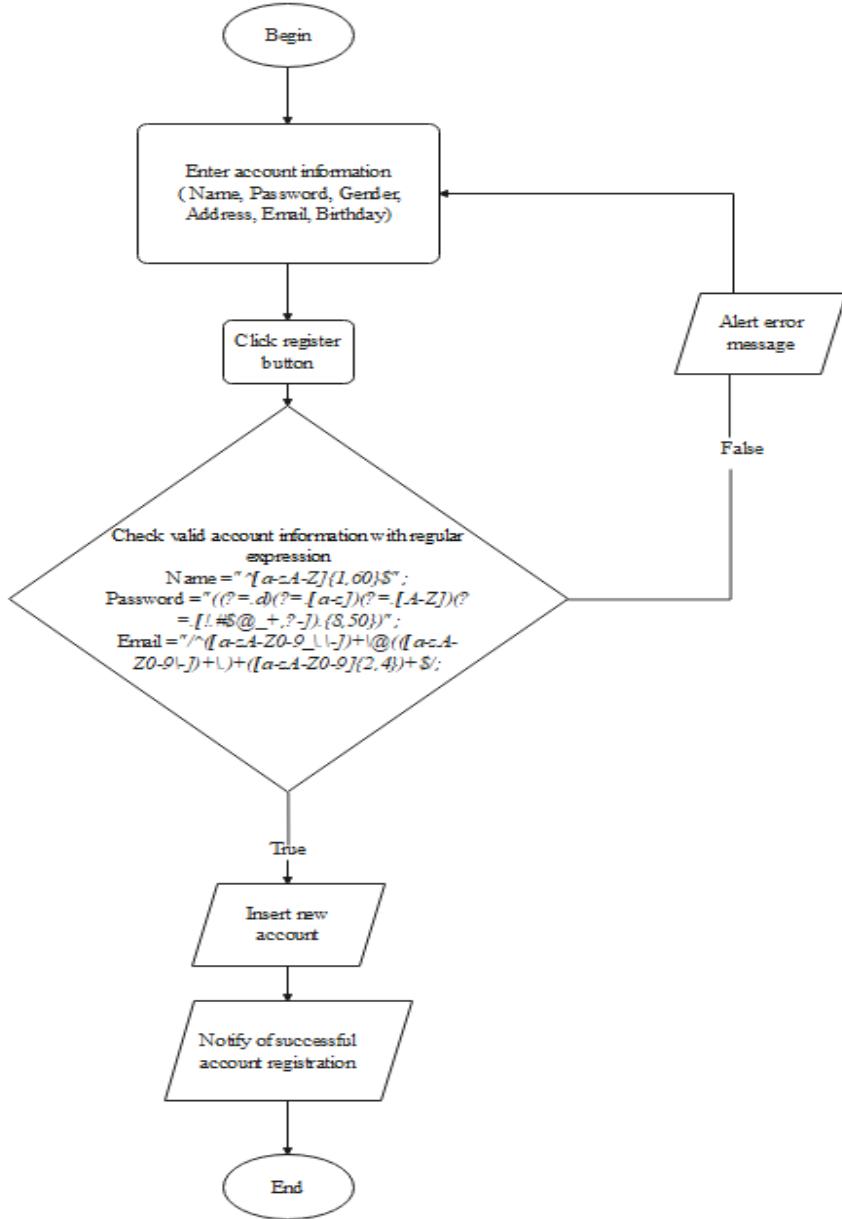


Figure 25: Register process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 8 of 16   |

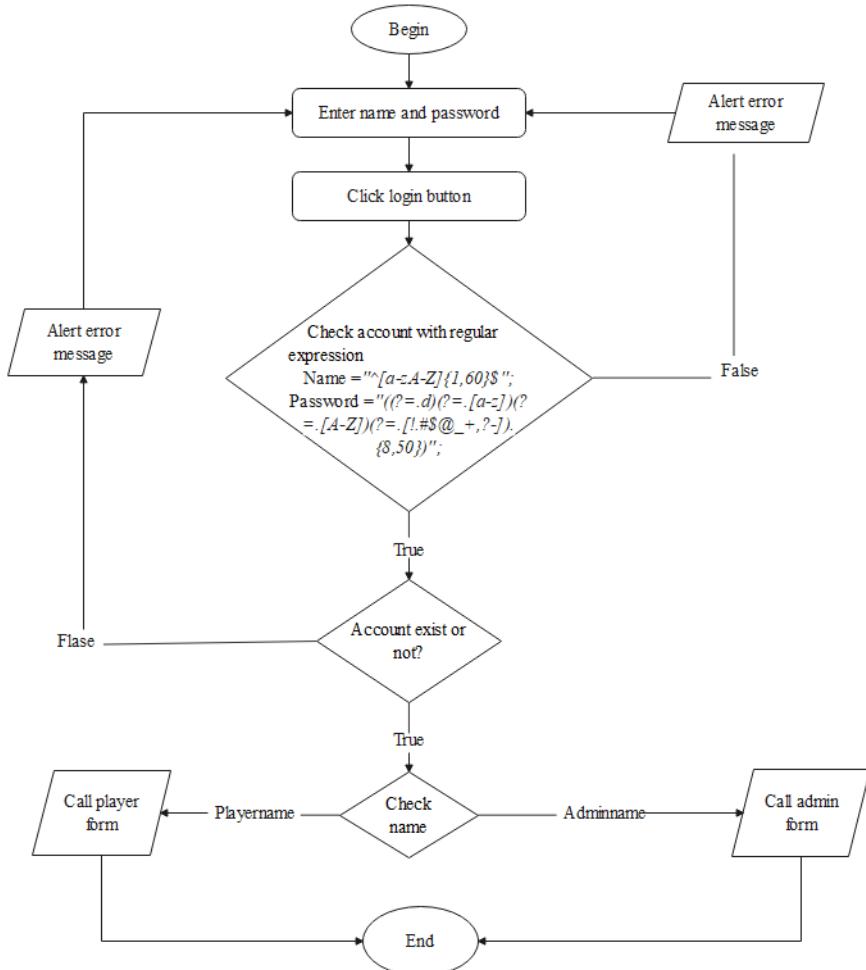


Figure 26: Login process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 9 of 16   |

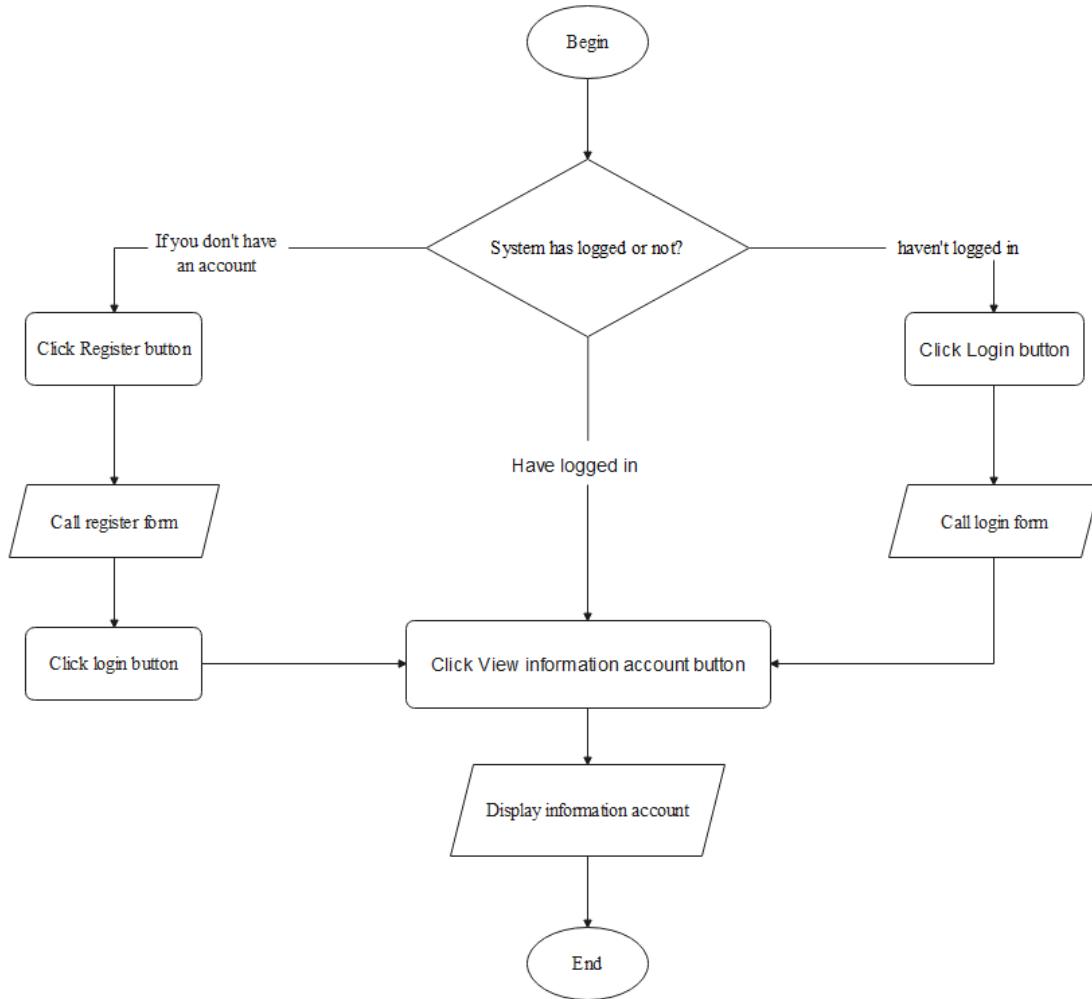


Figure 27: View account process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
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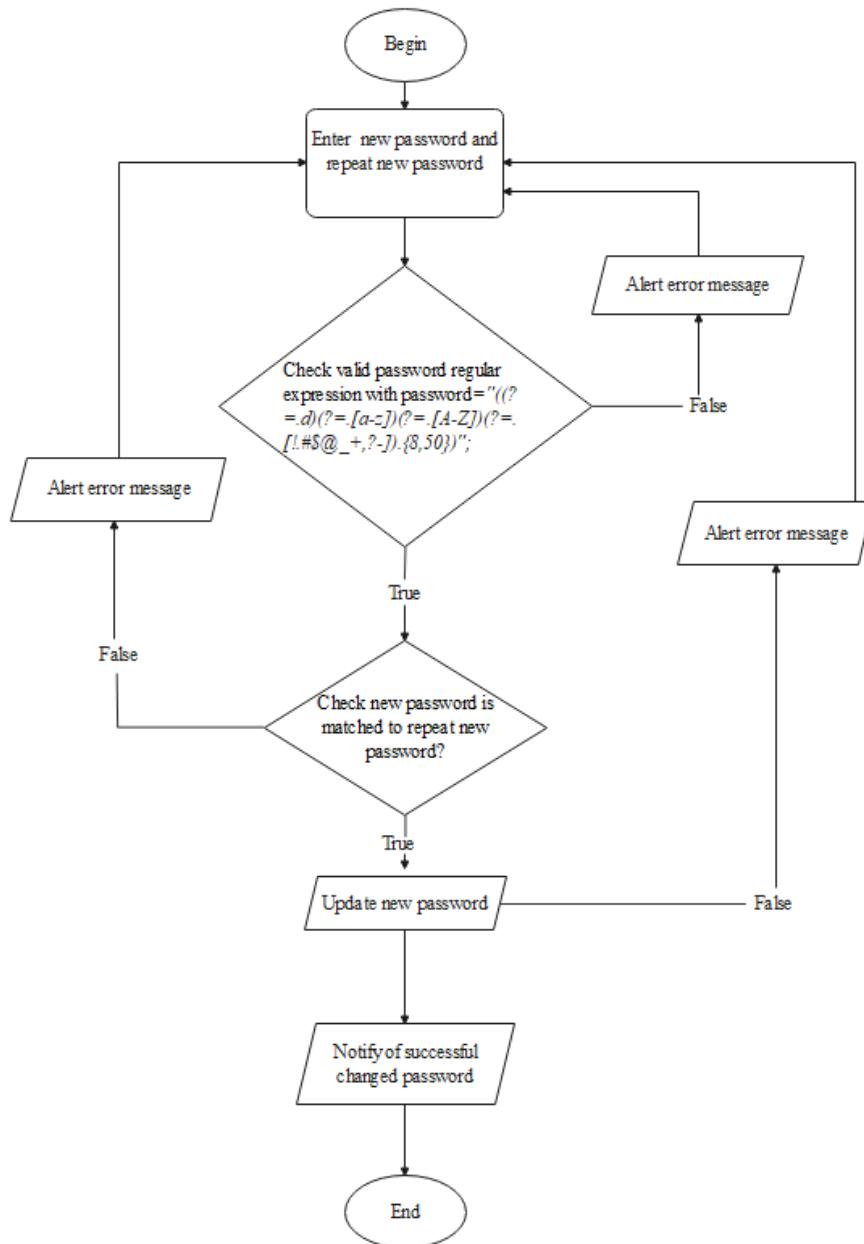


Figure 28: Change password process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
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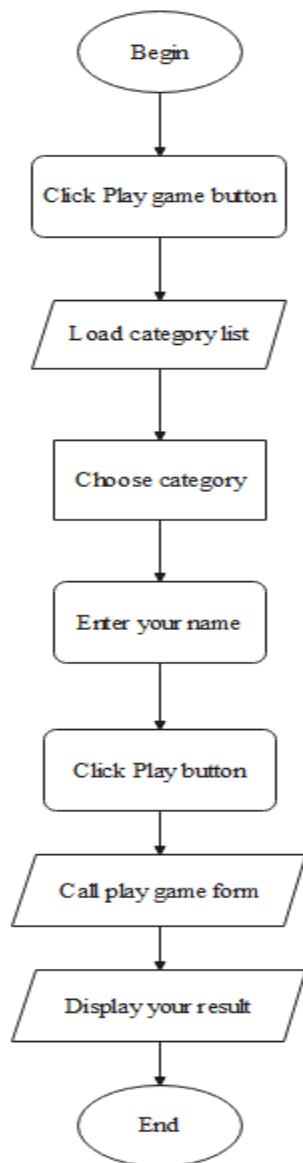


Figure 29: Play game process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
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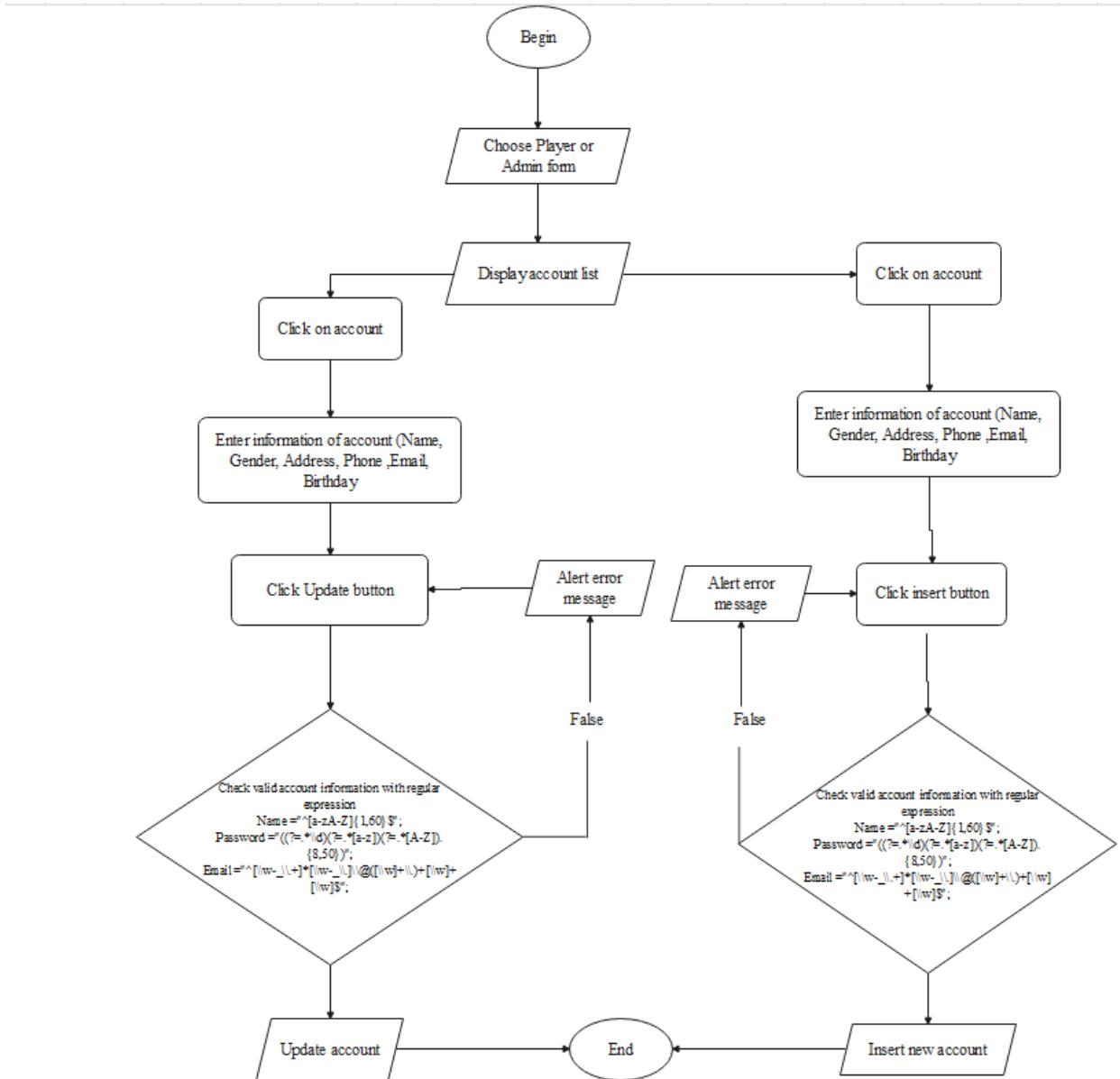


Figure 30: Insert update account process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 13 of 16  |

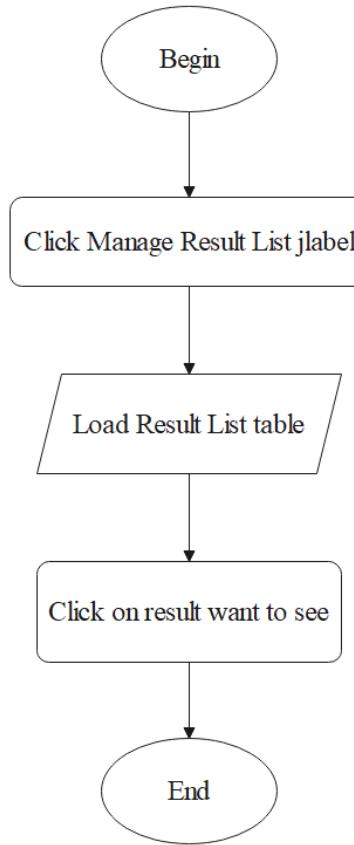


Figure 31: View result process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 14 of 16  |

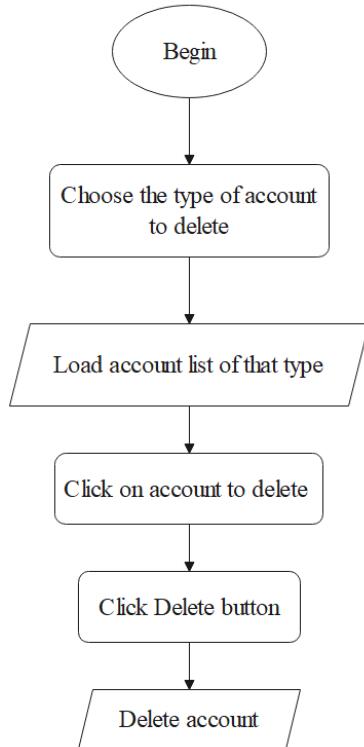


Figure 32: Delete account process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
| Effective Date: 10/26/2020 | Version: 1.0                  | Page 15 of 16  |

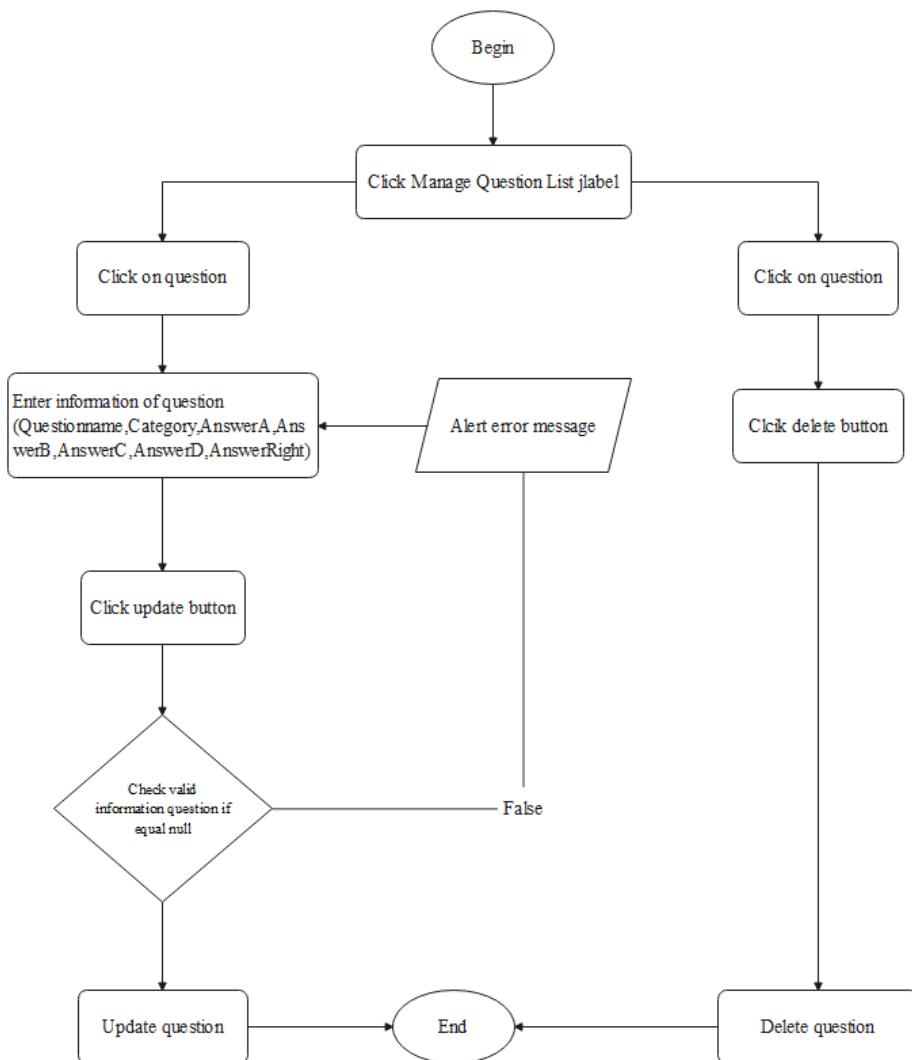


Figure 33: Update delete question process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                |
|----------------------------|-------------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Process Design | SWD/Form No. 7 |
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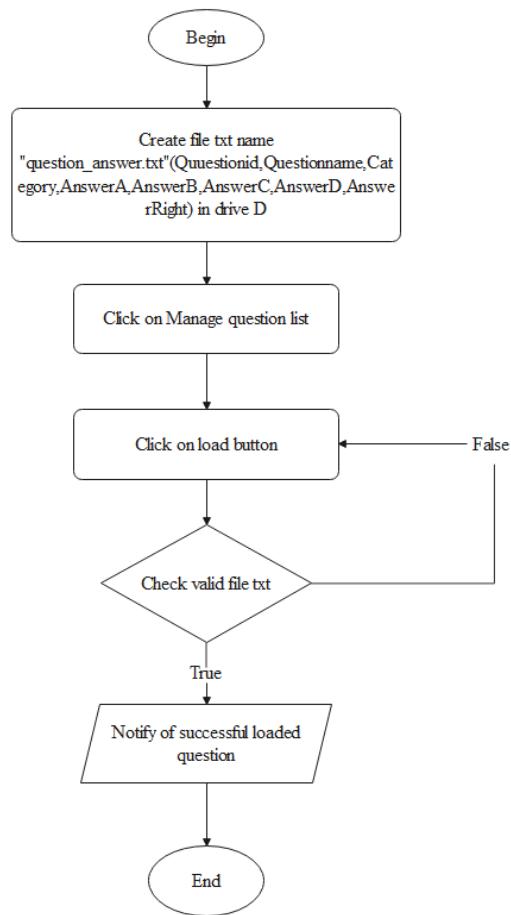


Figure 34: Load question from file txt process

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                                |               |
|----------------------------|--------------------------------|---------------|
| Design Plan: KBC Quiz      | Document Name: Coding Standard | SWD/Form No.8 |
| Effective Date: 11/20/2020 | Version: 1.0                   | Page 1 of 2   |

## 10 CODING STANDARD DOCUMENTATION

### 10.1 Programming Standards

- Image icons have to store in the folder at source “<ProjectName>/src/asset” and have extension is “.png”.
- Must have declaration part for classes and interfaces using for the project.

### 10.2 Standards for code writing style

- The package name should be in all lowercase letters. Example: controller, view.
- Names for data types must be nouns, and be spelled out by words that begin with an uppercase character. Example: ViewLogin, ViewChangePassword
- Variable names must start with a lowercase letter, the next words begin with a capital letter. Example: name, controllerLogin.
- The constant name must be all capital letters, words separated by underscore "\_". Example: CONNECT\_STRING.
- The method names must be verbs that start with a lowercase letter, and subsequent words are clearly spelled out by words starting with a capital letter. Example: getName(), setName(), login(), update().
- Abbreviations should not include all capital letters (unless it is in a constant name).
- All names should be written in English.
- Wide range (global) variables should be long-named, narrow-range (local) variables should be short-named. Example:
  - For local variables:

```
for (int i = 0; i < 10; i++) {
    // Do somethings.
}
```

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|------------|-----------------------|-----------------------|
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|                                   |                                       |                      |
|-----------------------------------|---------------------------------------|----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Coding Standard</b> | <b>SWD/Form No.8</b> |
| <b>Effective Date: 11/20/2020</b> | <b>Version: 1.0</b>                   | <b>Page 1 of 2</b>   |

- For global variables:

```
Public class ControllerAdminLogin{
    private TextField nameTextField;
    private TextField passwordField;
}
```

- The name of control have name class of control after the name, Example:  
nameTextField, birthdayDatePicker.
- The keyword "set / get" must be placed in methods that directly access the property.
- The array, list (set of multiple objects) name should be named in the plural.  
Example: questions, accounts.

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|------------|-----------------------|-----------------------|
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|                            |                           |                |
|----------------------------|---------------------------|----------------|
| Design Plan: KBC Quiz      | Document Name: Task Sheet | SWD/Form No. 9 |
| Effective Date: 10/13/2020 | Version: 1.0              | Page 1 of 2    |

## 11 TASK SHEET

| Project Ref. No.: | Project Title: KBC Quiz            | Plan Prepared By:<br>Truong Thi Minh Thuy |                   | Date of Prepared of Activity Plan: |  |        |
|-------------------|------------------------------------|---|-------------------|------------------------------------|--|--------|
| Task Sub division | Description                        | Planned Start Date                        | Actual Start Date | Actual Days                        | Team Member Names  | Status |
| Form No:1         | Problem Definition Document        | 10/10/2020                                | 10/10/2020        | 2                                  | Truong Thi Minh Thuy                                     | 100%   |
| Form No:2 A       | Customer Requirement Specification | 10/12/2020                                | 10/12/2020        | 2                                  | Truong Thi Minh Thuy                                     | 100%   |
| Form No: 2B       | Customer Acceptance Criteria       | 10/14/2020                                | 10/14/2020        | 1                                  | Truong Thi Minh Thuy                                     | 100%   |
| Form No: 3        | Project Plan                       | 10/15/2020                                | 10/15/2020        | 2                                  | Truong Thi Minh Thuy                                     | 100%   |
| Form No: 4        | GUI Standards Document             | 10/17/2020                                | 10/17/2020        | 2                                  | Truong Thi Minh Thuy<br>Dieu Dang Phu<br>Doan Trong Nhon | 100%   |
| Form No: 5        | Interface Design Document          | 10/23/2020                                | 10/23/2020        | 5                                  | Truong Thi Minh Thuy                                     | 100%   |
| Form No:6         | Table Design Document              | 11/1/2020                                 | 11/01/2020        | 2                                  | Truong Thi Minh Thuy                                     | 100%   |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/13/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                                   |                                  |                       |
|-----------------------------------|----------------------------------|-----------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: Task Sheet</b> | <b>SWD/Form No. 9</b> |
| <b>Effective Date: 10/13/2020</b> | <b>Version: 1.0</b>              | <b>Page 2 of 2</b>    |

|             |                           |            |            |   |                      |      |
|-------------|---------------------------|------------|------------|---|----------------------|------|
| Form No: 7  | Process Design Document   | 11/05/2020 | 11/05/2020 | 3 | Truong Thi Minh Thuy | 100% |
| Form No: 8  | Coding Standards Document | 11/03/2020 | 11/03/2020 | 1 | Dieu Dang Phu        | 100% |
| Form No: 9  | Task Sheet                | 10/13/2020 | 10/13/2020 | 1 | Truong Thi Minh Thuy | 100% |
| Form No: 10 | Testing Document          | 11/22/2020 | 11/22/2020 | 2 | Truong Thi Minh Thuy | 100% |
| Form No: 11 | Project Review            | 11/24/2020 | 11/24/2020 | 1 | Truong Thi Minh Thuy | 100% |
| Form No: 12 | Final Check List          | 11/25/2020 | 11/25/2020 | 1 | Truong Thi Minh Thuy | 100% |
| Form No: 13 | Installation Guide        | 11/25/2020 | 11/25/2020 | 1 | Truong Thi Minh Thuy | 100% |
| Form No: 14 | User Guide                | 11/25/2020 | 11/25/2020 | 1 | Truong Thi Minh Thuy | 100% |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 10/13/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                        |                 |
|----------------------------|------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Testing | SWD/Form No. 10 |
| Effective Date: 11/25/2020 | Version: 1.0           | Page 1 of 1     |

## 12 TESTING DOCUMENTATION

| Sr. No | Features Tested                | Remarks |
|--------|--------------------------------|---------|
| 1      | Test user interface            | Good    |
| 2      | Test database                  | Good    |
| 3      | Test functions of software     | Good    |
| 4      | Test activities                | Good    |
| 5      | Test invalid information input | Good    |
| 6      | Test documentation             | Good    |
| 7      | Test final                     | Good    |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/25/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                               |                 |
|----------------------------|-------------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Project Review | SWD/Form No. 11 |
| Effective Date: 11/24/2020 | Version: 1.0                  | Page 1 of 1     |

## 13 PROJECT REVIEW

| Date:      | Project Plan Activity/Milestone | Work Specification          | Status of the Activity | Remarks | Responsibility   |
|------------|---------------------------------|-----------------------------|------------------------|---------|--|
| 10/10/2020 | 10/15/2020                      | Take Customer's information | Finished               | Good    | Truong Thi Minh Thuy<br>Dieu Dang Phu<br>Doan Trong Nhon |
| 10/22/2020 | 10/25/2020                      | Design                      | Finished               | Good    | Truong Thi Minh Thuy                                     |
| 10/25/2020 | 11/20/2020                      | Coding                      | Finished               | Good    | Truong Thi Minh Thuy<br>Dieu Dang Phu<br>Doan Trong Nhon |
| 21/11/2020 | 27/11/2020                      | Testing                     | Finished               | Good    | Truong Thi Minh Thuy                                     |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/24/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                                 |                 |
|----------------------------|---------------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Final Check List | SWD/Form No. 12 |
| Effective Date: 11/24/2020 | Version: 1.0                    | Page 1 of 2     |

**14 FINAL CHECK LIST**

| Sr. No. | Aspect tested   | Suggestion/ Remark |
|---------|---|--------------------|
| 1       | Have all the modules been properly integrated and are they completely functional? | Yes                |
| 2       | Does each unit meet its objective and purpose?                                    | Yes                |
| 3       | Are all the validations happening as specified in Process Design?                 | Yes                |
| 4       | Have all Design and Coding standards been followed and implemented?               | Yes                |
| 5       | Is the GUI design consistent all over?  | Yes                |
| 6       | Are the code work as per the specification?                                       | Yes                |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/24/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

**JAVA PROJECT – GROUP 5****KBC QUIZ**

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Task Sheet | SWD/Form No. 12 |
| Effective Date: 16/11/2020 | Version: 1.0              | Page 2 of 2     |

|   |  |     |
|---|--|-----|
| 7 | Does the application's functionality resolve the client problem, and satisfy his needs completely? | Yes |
| 8 | Have the hardware and software been correctly chosen?  | Yes |
| 9 | Additional features and utilities that give value addition to the entire project.                  | Yes |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 16/11/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: User Guide | SWD/Form No. 13 |
| Effective Date: 11/23/2020 | Version: 1.0              | Page 1 of       |

## 15 INSTALLATION GUIDE

### Hardware requirements

|                     |  |
|---------------------|--|
| CPU                 | 1.8 GHz or faster processor. Quad-core or better recommended.                              |
| Ram                 | 4 GB of RAM. 8 GB of RAM recommended.  |
| Hard disk space     | Minimum of 800MB up to 256 GB or more of available space depending on increasing database. |
| Hard disk speed     | To improve performance, install Operating System and project run on SSD drive.             |
| Display screen size | Supports a minimum display 1600 x 900  |

### Software requirements

|                  |   |
|------------------|---|
| Operating system | Project will install and run on the following operating systems(Windows 10 64 bit recommended)                      |
| Environment      | Java 8 (version 1.8.0_231)  |
| Database server  | Microsoft SQL Server (SQL Server 2016 recommended). Microsoft SQL Server Management Studio 18 for managing database |

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/23/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Task Sheet | SWD/Form No. 13 |
| Effective Date: 11/23/2020 | Version: 1.0              | Page 2 of 2     |

**Installation guide documentation:**

- Microsoft SQL Server:
  - Install guide: <https://docs.microsoft.com/en-us/sql/databaseengine/install-windows/install-sql-server?view=sql-server-ver15>
  - Download: <https://www.microsoft.com/en-us/sql-server>
- Microsoft SQL Server Manage Studio
  - Install guide and download: :  
<https://docs.microsoft.com/enus/sql/ssms/download-sql-server-management-studio-ssms?view=sqlserver-ver15>
- JRE 1.8.0\_231
  - Install guide:  
[https://docs.oracle.com/javase/8/docs/technotes/guides/install/install\\_overview.html#A1096936](https://docs.oracle.com/javase/8/docs/technotes/guides/install/install_overview.html#A1096936)
  - Download: <https://www.java.com/en/>

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|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Task Sheet | SWD/Form No. 13 |
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## Install application

First, your computer must have all above software requirements and unzip application, recommend using WinRAR archiver or you can use unzip tool of Windows 10.

Right click on KBCQuiz.zip, choose Open with, the select Windows Explorer.

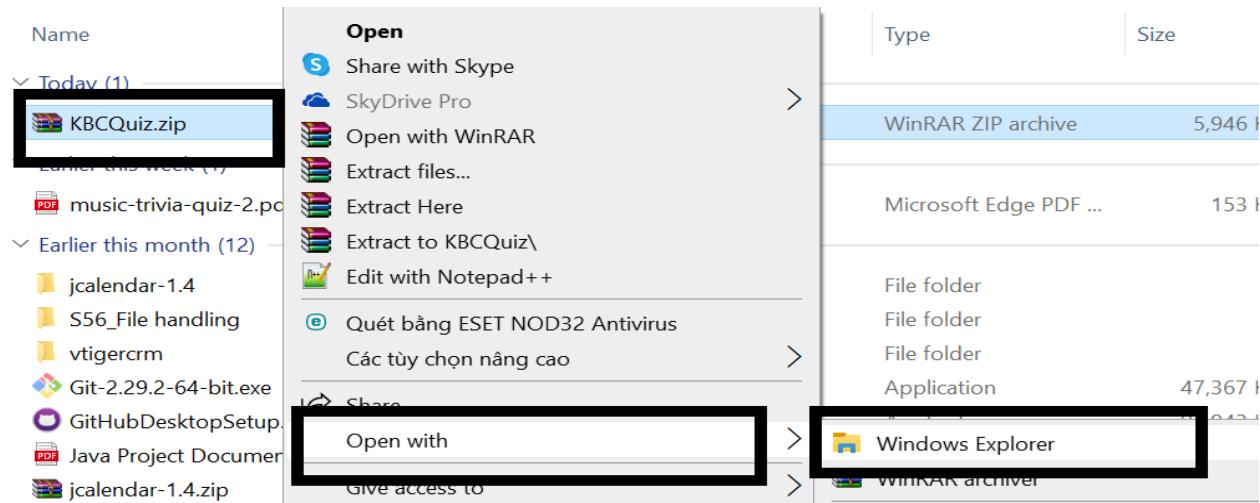


Figure 35: Extract all

Then click Extract all.

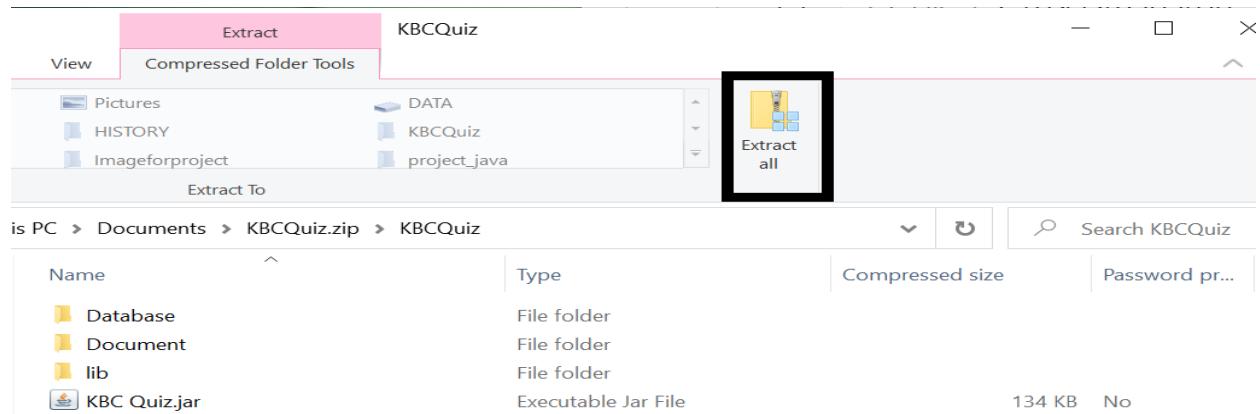


Figure 36: Extract all

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 23/11/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Task Sheet | SWD/Form No. 13 |
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Choose the path then click Extract to unzip

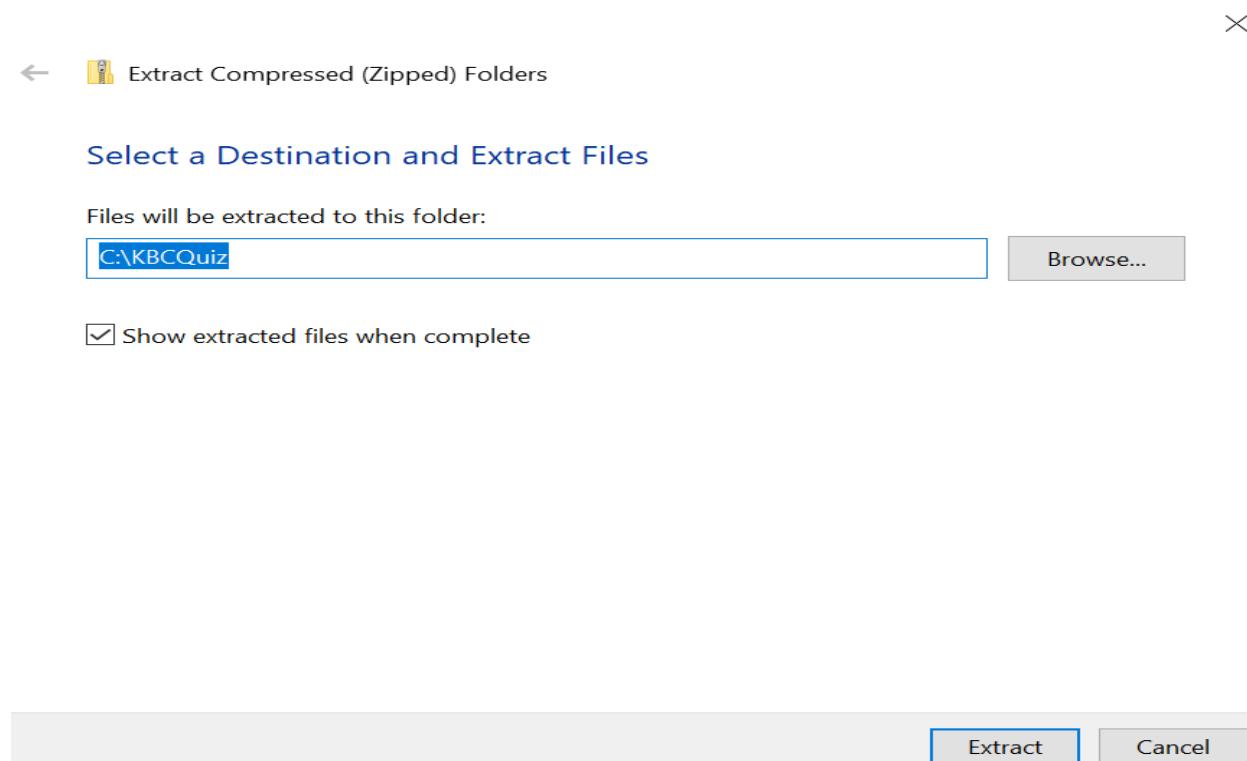


Figure 37: Choose unzip path

Then copy 2 file paste C:\Program Files\Microsoft  
SQLServer\MSSQL11.SQLEXPRESS\MSSQL\DATA

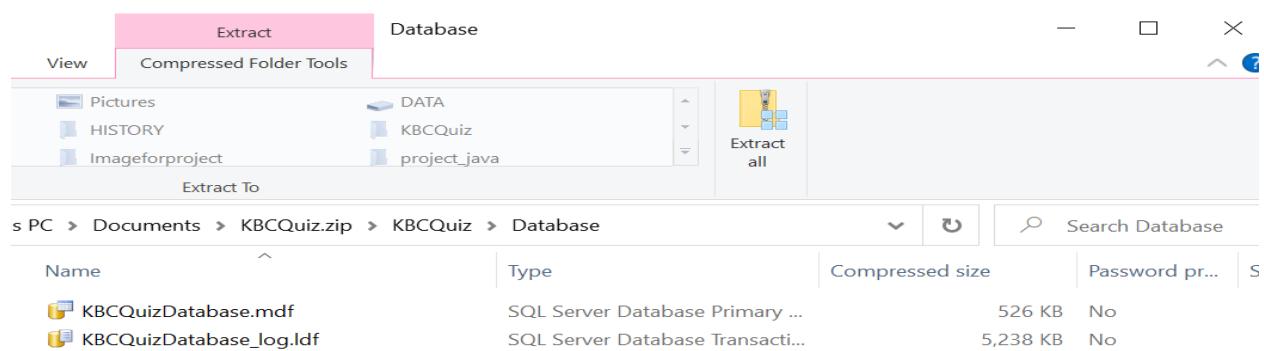


Figure 38: Database file

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 23/11/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: Task Sheet | SWD/Form No. 13 |
| Effective Date: 23/11/2020 | Version: 1.0              | Page 3 of 2     |

Right click on Database, click on Attach then click Add KBCQuizDatabase.mdf

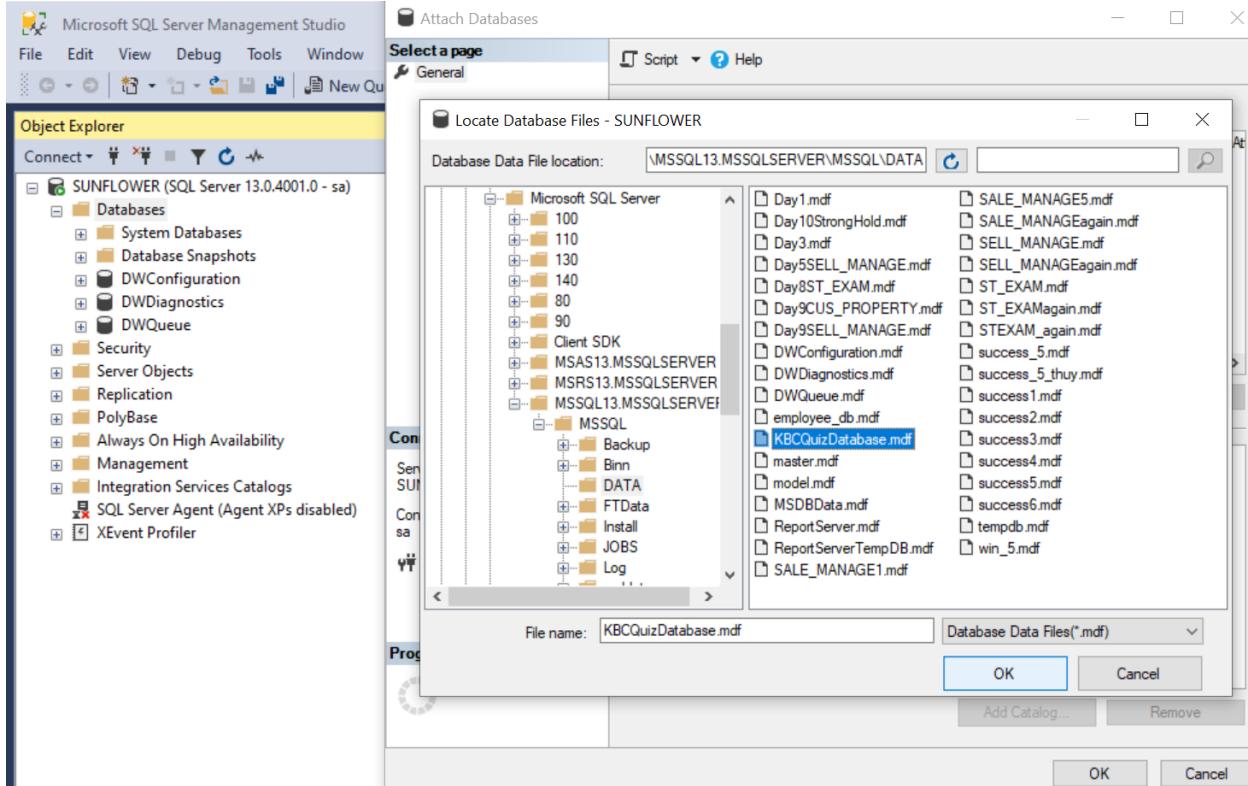


Figure 39: Add database

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 23/11/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: User Guide | SWD/Form No. 14 |
| Effective Date: 11/26/2020 | Version: 1.0              | Page 1 of 2     |

## 16 USER GUIDE

### 16.1 For Admin

Run Application , click login button. Using test account to login with account:

“MinhThuy” and password:”MinhThuy278”.

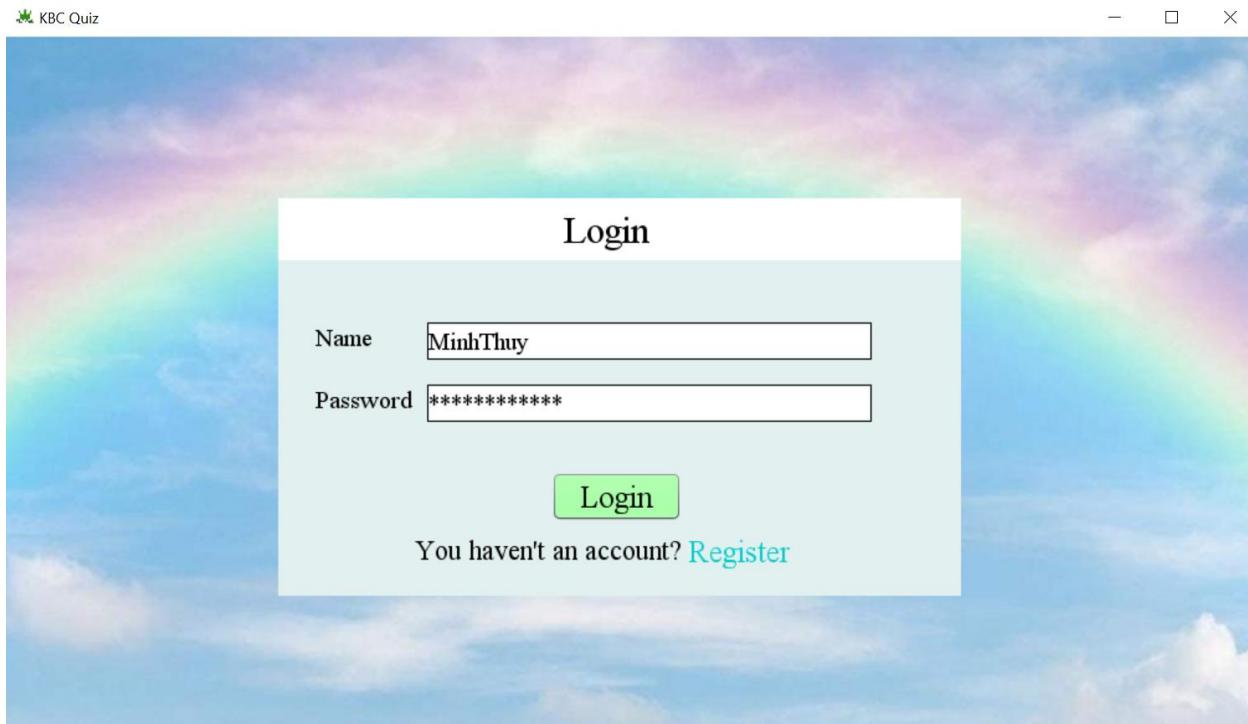


Figure 40 : Login system

| Date        | Prepared By (Student) | Approved By (Teacher) |
|-------------|-----------------------|-----------------------|
| 11/126/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: User Guide | SWD/Form No. 14 |
| Effective Date: 11/26/2020 | Version: 1.0              | Page 2 of       |

Then main admin form will appear. Click on function label for manage KBC Quiz with manage player account, manage admin account, manage question list, manage result list, my account , log out.



Figure 41 : Main Admin form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: User Guide | SWD/Form No. 10 |
| Effective Date: 11/26/2020 | Version: 1.0              | Page 3 of 2     |

At Manage question list, admin can update and delete question by click on question and choose or update button or delete button. Beside that, admin can load question from file txt by create a file txt name “question\_answer.txt” in drive D, then click on Load button.

| Questionid | Questionname   | Category | AnswerA                                    | AnswerB                      | AnswerC                | AnswerD                               | AnswerRight                                |
|------------|--|----------|--|------------------------------|------------------------|---------------------------------------|--|
| 1          | Which brand does Messi represent?  | Sport    | Puma                                       | Kappa                        | Nike                   | Adidas                                | Adidas                                     |
| 2          | Allied armies in World War I   | History  | British and French forces                  | French and British forces    | British Army           | The French army                       | British Army                               |
| 3          | After the American Revolution  | History  | The ROC army                               | French colonists             | British Empire         | Japanese fascists                     | French colonists                           |
| 4          | What is the main cause of the American Revolution?                         | History  | Disarmed them                              | Helping the revolutionaries  | Hit the British        | Robbing my country                    | Robbing my country                         |
| 5          | He most seriously injured during the American Revolution?                  | History  | Starvation                                 | ignorant enemies             | finance                | foreign invaders                      | foreign invaders                           |
| 6          | What is the first step in the Industrial Revolution?                       | History  | Finance was developed                      | The State Bank               | Development            | Finance dependence                    | The State Bank                             |
| 7          | Cultural remnants of the French Revolution                                 | History  | Culture has changed                        | Modern culture               | Culture is here        | More than 90%                         | More than 90%                              |
| 8          | The common goal of the French Revolution                                   | History  | Defending the people                       | bringing the people together | paved the way          | vandalizing things                    | vandalizing things                         |
| 9          | What measure did Napoleon Bonaparte take to support the French Revolution? | History  | Establishment of the First French Republic | Build more schools           | Eliminate the nobility | Implementation of the Napoleonic Code | Establishment of the First French Republic |
| 10         | In order to strengthen France's economy, what did Napoleon Bonaparte do?   | History  | Increase production                        | Making economic changes      | Organizing workers     | Redistribution of wealth              | Redistribution of wealth                   |
| 11         | State of Vietnam in 1945   | History  | industrial area                            | The entire population        | workers and peasants   | public and agricultural               | The entire population                      |
| 12         | What year was the French Revolution?                                       | Sport    | 1961                                       | 1962                         | 1963                   | 1964                                  | 1963                                       |

Figure 42: Manage Question List form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
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At manage account admin, admin can insert, update, change status account of admin by click on account and choose insert button or update button, delete button.

| Adminname | Password    | Gender | Address | Email            | Birthday       | Status |
|-----------|-------------|--------|---------|------------------|----------------|--------|
| MinhThuy  | MinhThuy278 | Female | VN      | minhthuy@gm...   | Aug 27, 2001   | 1      |
| Sunflower | MinhThuy278 | Female | Can Tho | minhthuysunfl... | August 27,2001 | 1      |

Figure 43 : Manage Player List

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
| Design Plan: KBC Quiz      | Document Name: User Guide | SWD/Form No. 14 |
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At manage account player, admin can insert, update, change status account of player by click on account and choose insert button or update button, delete button.

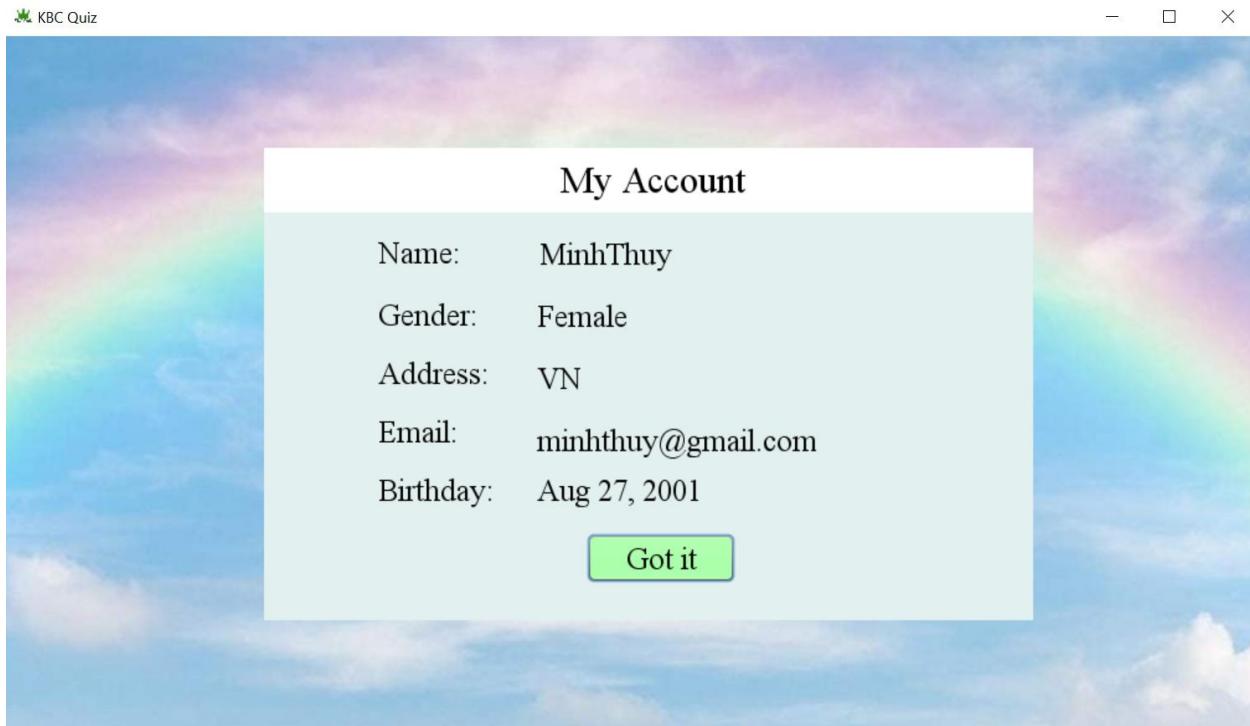
| Playername | Password   | Gender | Address | Email          | Birthday      | Totalprizem... | Status |
|------------|------------|--------|---------|----------------|---------------|----------------|--------|
| Boram      | Boram278   | female | Korea   | boram@gma...   | Mar 22, 1986  | 10000          | 1      |
| EunJung    | EunJung278 | Female | Korea   | eunjung@g...   | Dec 12, 1988  | 20000          | 1      |
| Hyomin     | Jiyeon7693 | Female | Korea   | hyomin@gm...   | May 30, 1990  | 20000          | 1      |
| Jiyeon     | Jiyeon278  | Female | Korea   | jiyeon@gma...  | June 07, 1993 | 5000           | 1      |
| Joy        | Joymt278   | female | US      | joy@gmail.c... | Jun 27, 1990  | 5000           | 1      |
| Qri        | LeeQri278  | Female | Korea   | qri@gmail.c... | Dec 12, 1986  | 6000           | 1      |
| SongHyekyo | Hyekyo278  | Female | Korea   | hyekyo@gm...   | November 2... | 50000          | 1      |
| Soyeon     | Jiyeon7693 | Female | Korea   | soyeon@gm...   | Nov 6, 1990   | 10000          | 1      |

Figure 44: Manage player account form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                                   |                                  |                        |
|-----------------------------------|----------------------------------|------------------------|
| <b>Design Plan: KBC Quiz</b>      | <b>Document Name: User Guide</b> | <b>SWD/Form No. 14</b> |
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At my account, admin can view personal information.



*Figure 45: View account information form*

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
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## 16.2 For Player

Run Application, welcome form will appear.

If you haven't an account , you click on Register button to register account.

If you have an account, you click on Login button to Login account.



Figure 46: Welcome form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
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Enter your information to register account.

KBC Quiz

Register

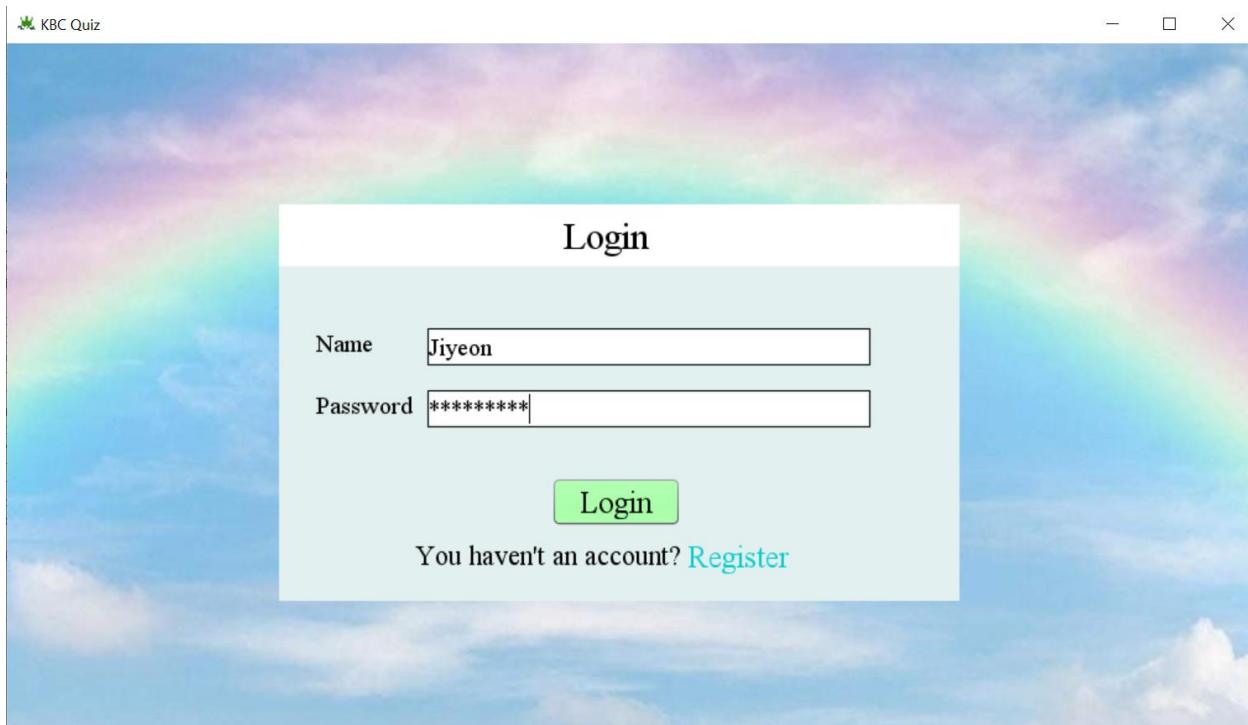
|  |  |
|--|--|
| Name   | Jiyeon   |
| Password   | *****  |
| Re-Password  | *****  |
| <input type="checkbox"/> Show password                                       |  |
| Address  | Korea  |
| Email  | jiyeon@gmail.com   |
| Birthday   | Jun 7, 1993 <input type="button" value=""/>                        |
| Gender   | <input checked="" type="radio"/> Female <input type="radio"/> Male |
| <input type="button" value="Register"/> <input type="button" value="Reset"/> |  |
| Already have account? <a href="#">Login</a>                                  |  |

Figure 47 : Register form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
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Then enter name account and password to login.



*Figure 48: Login form*

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
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Then main player form will appear. Click on function label , play game, game rule, prize money, view account , change password, update account , log out.

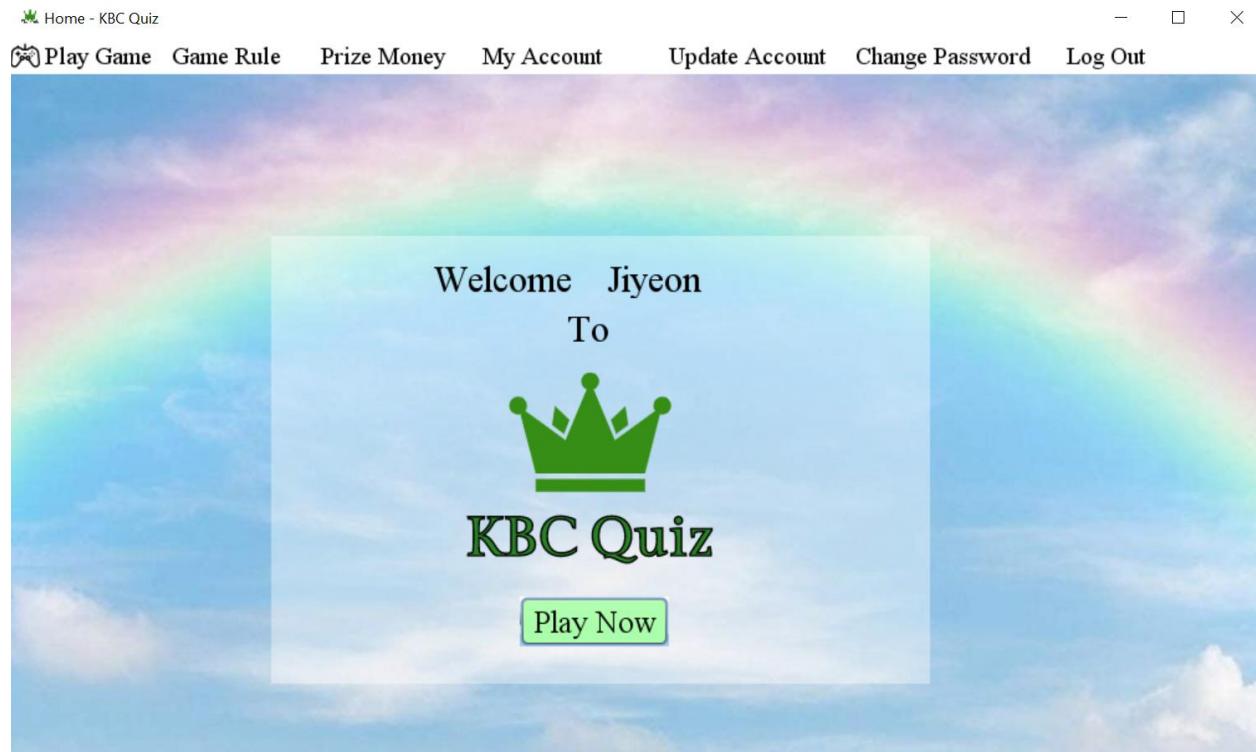
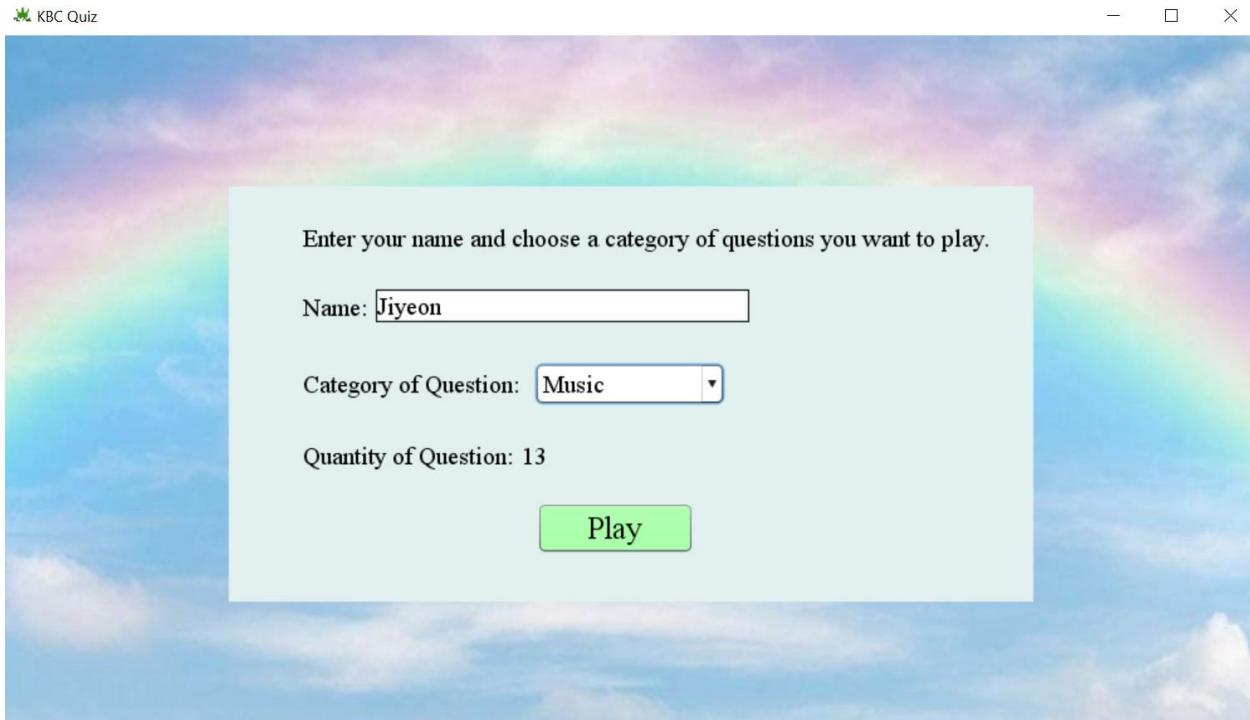


Figure 49: Menu for player form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
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Click on Play Now button or Play Game label to play game. Then a Choose category of question will appear. Enter your name account and choose category of question include five category: Music, History, Sport, Cuisine, Culture. Then click Play button to play game.



*Figure 51: Choose category of question form*

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
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A Play Game form will appear. The game has total 13 question, every question include 4 answer. Click on A button or B button or C button , D button then click ok button to check answer. Beside that player has two help 50-50, flip , every help only use once.

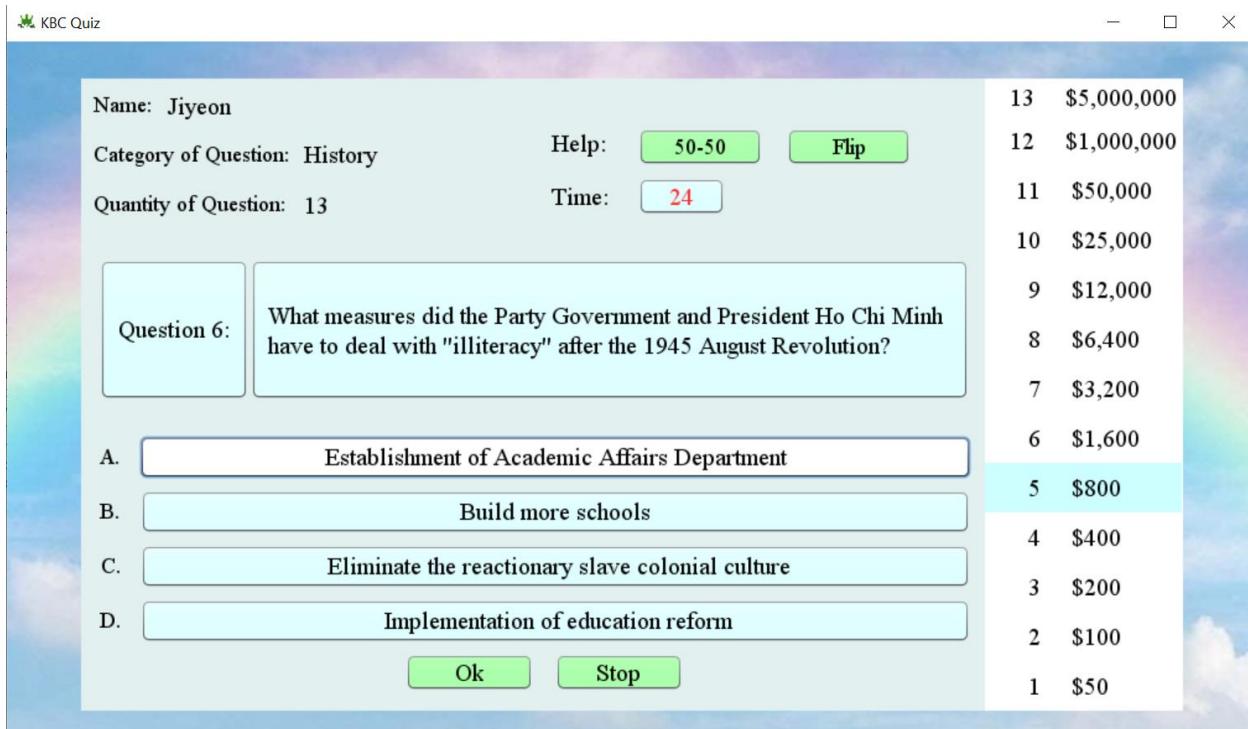
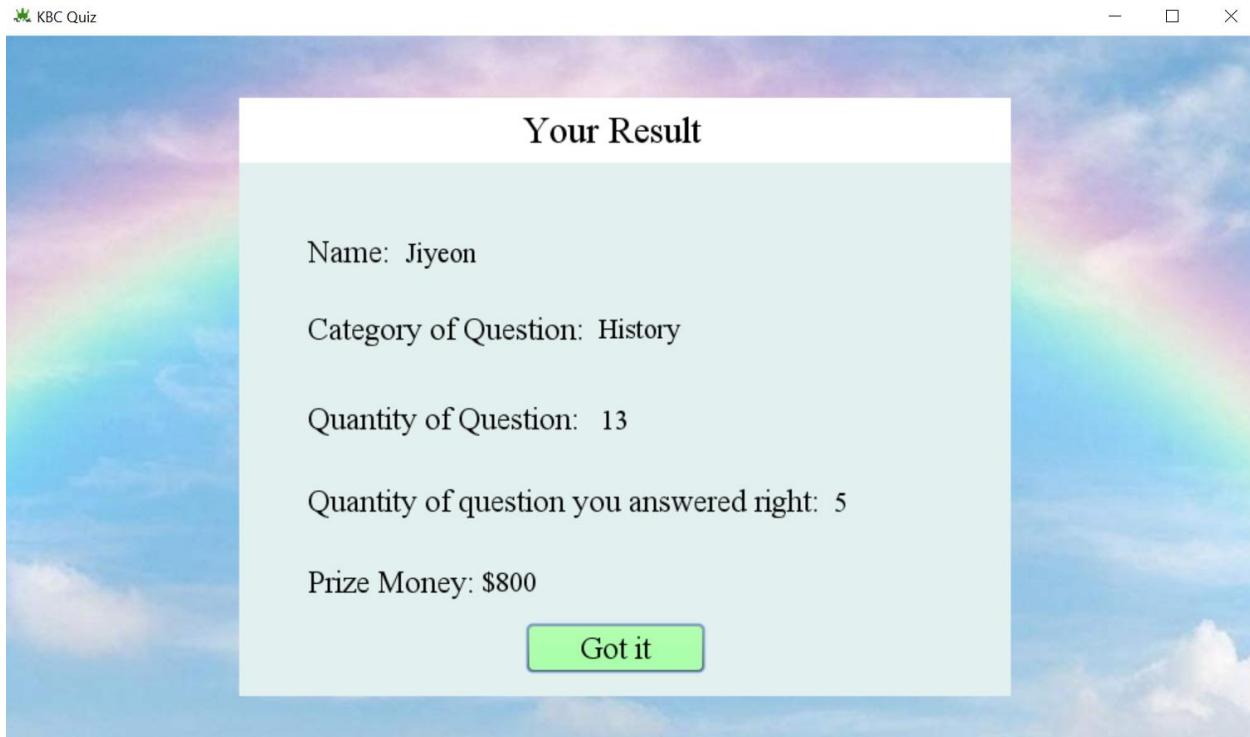


Figure 52: Play game form

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
| 11/26/2020 | Truong Thi Minh Thuy  | Luong The Anh         |

|                            |                           |                 |
|----------------------------|---------------------------|-----------------|
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When player answer wrong then a result form will appear.



*Figure 53: Result form*

| Date       | Prepared By (Student) | Approved By (Teacher) |
|------------|-----------------------|-----------------------|
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