



QUIZ MANAGER

A tool to manage quizez

Project By

Zeeshan Ahmed (023-18-0031) and Rizwan Ahmed (053-18-0019)

How our project is working with database?

What approaches we have used?

In our project we have used two approaches of database architecture. One is the connected database access architecture and other is disconnected data access architecture. There are so many reasons of using the disconnected data access architecture in our project.

Why we have used disconnected data access architecture?

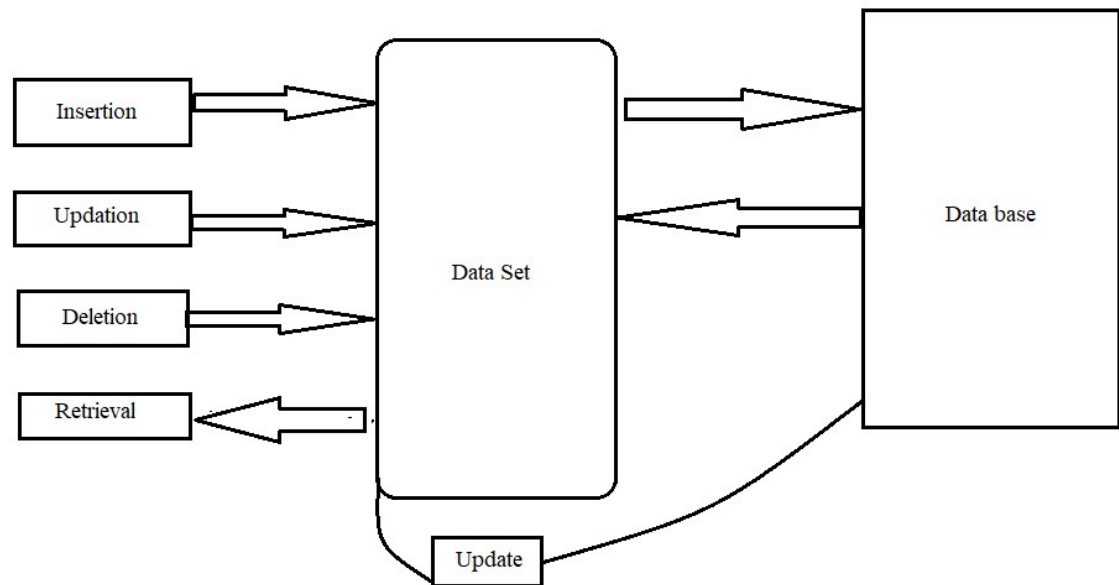
Reason to use this architecture in our project is the features provided by this architecture. Most specifically it the way it hold data (in form of tables) and the way it reflect changes of actual database (By using SQL command builder class). As in our project we add questions, remove questions or update them, for reflecting each change in real database we needed updation queries again and again, so by using SQL command builder with help of SqlDataAdapter we resolved this problem. Another problem and reason, which forced us to use it was that, we need some data structure which could hold the already store data and could be managed easily. For this purpose we could use arrays, List or some other data structures but on these all data structures it was not easy to manage the data. So for storing fetched data in memory we used Dataset (Provided tool for implementation of disconnected data access architecture).

How this is used along with connected data access architecture?

If we define the usage of both approaches shortly then it can be described as follow

- When we are creating new quiz for 1st time then all questions are added in Dataset (Note that that data set is already populated with the same table reference, in which our quiz is to be store.). Second case can be that we are opening already created quiz, and in this case as well all question will be added in dataset. Similarly if we are removing questions or updating questions (in case we are editing already created quiz) then these changes will be made on this data set not on the actual database.
- And when we want to update the same charges in data base then we just need to call methods for updation by using SqlCommand builder and dataset. Update (//table.).

Following diagram is representing the basic working and flow of data storing and other operations.

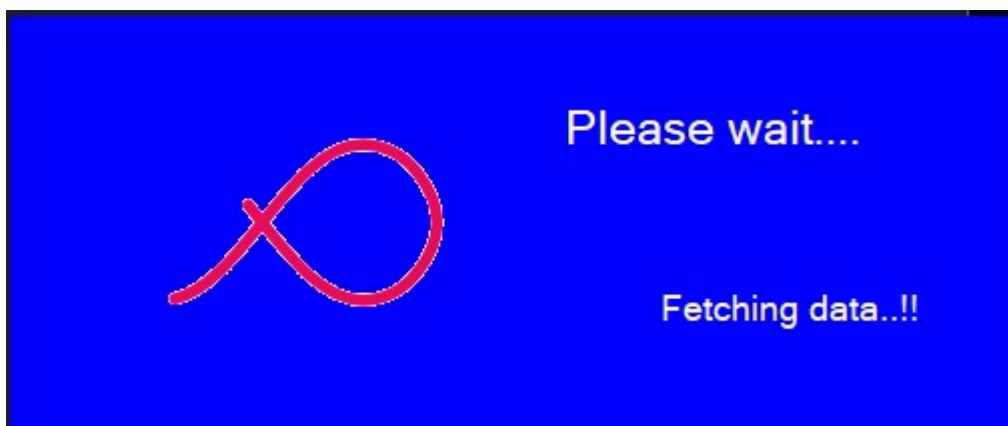
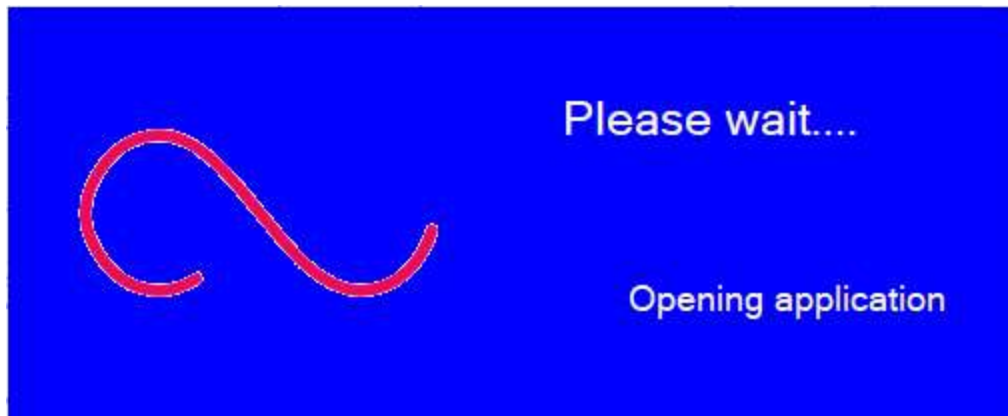


Components and their working in the Project.

Component Name: **LoadingProgressForm**

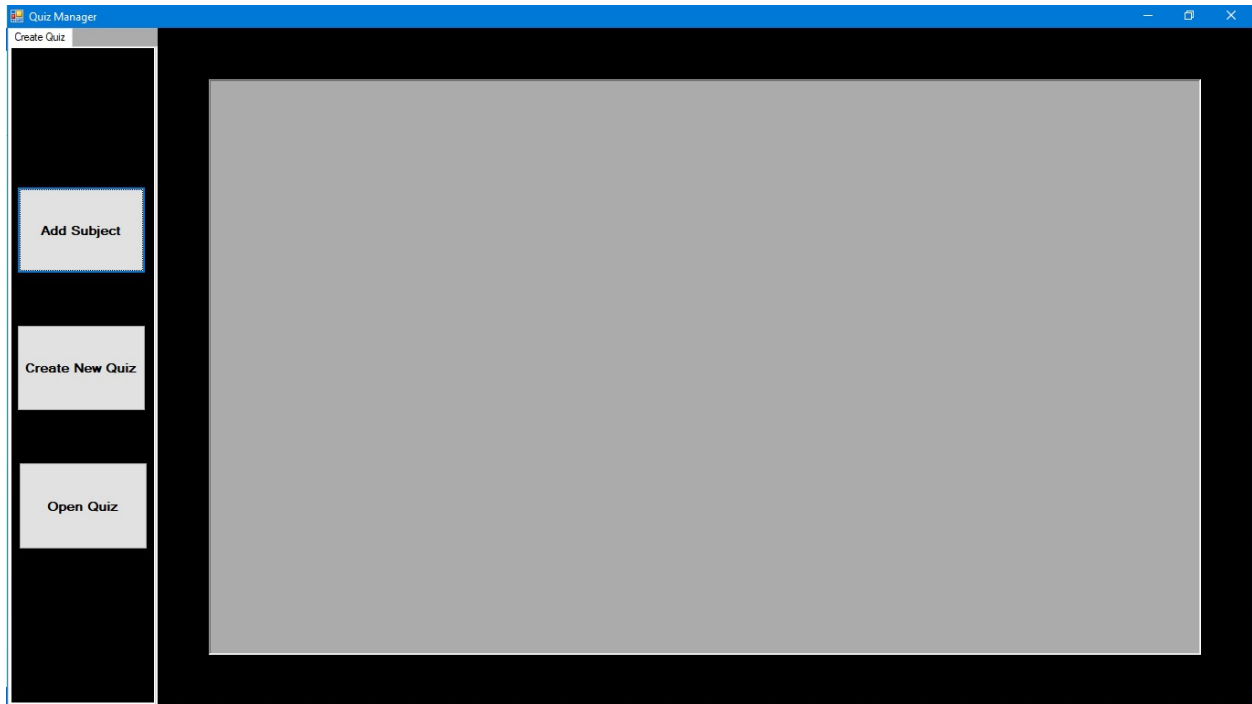
This basically tells the current work program is doing at real time.

These are some screenshots that explains the working of this form in our project when project is open.



Home Screen here there are three major operation we could perform

- 1.) **Add Subject**
- 2.) **Create New Quiz**
- 3.) **Open Quiz**



ADD SUBJECT WINDOW

Here we:

- 1.) *Can Add new Subjects*
- 2.) *Can set connection to database by clicking on **Set Connection button**.*
- 3.) *Can see Available Created Subjects, that are stored in database but we are getting these using dataset.*



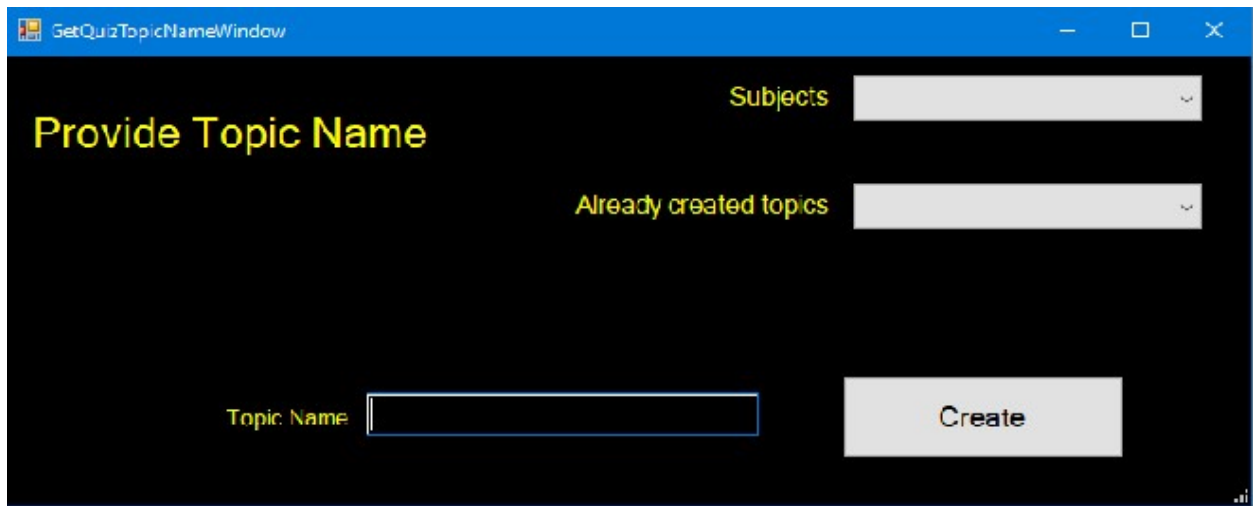
After Adding New Subjects, we can see list of available subjects.



CREATE NEW QUIZ

First of all we have to select Subject from Subject list then

Already created topic or we can select new topic then click on create button



The screenshot shows a window titled "GetQuizTopicNameWindow" with a dark blue background. On the left, the text "Provide Topic Name" is displayed in yellow. To the right, there are two yellow labels: "Subjects" and "Already created topics", each followed by a white dropdown menu. At the bottom left, the label "Topic Name" is in yellow, followed by a white text input field. To the right of the input field is a white button with the text "Create".

Here we can see list of subjects



This screenshot shows the same application window, but the "Subjects" dropdown menu is now open, displaying a list of three subjects in yellow text: "Visual_Programming", "Theory_Of_Automata", and "Propobability". The other elements of the interface remain the same.

Selecting Subject: Visual_Programming

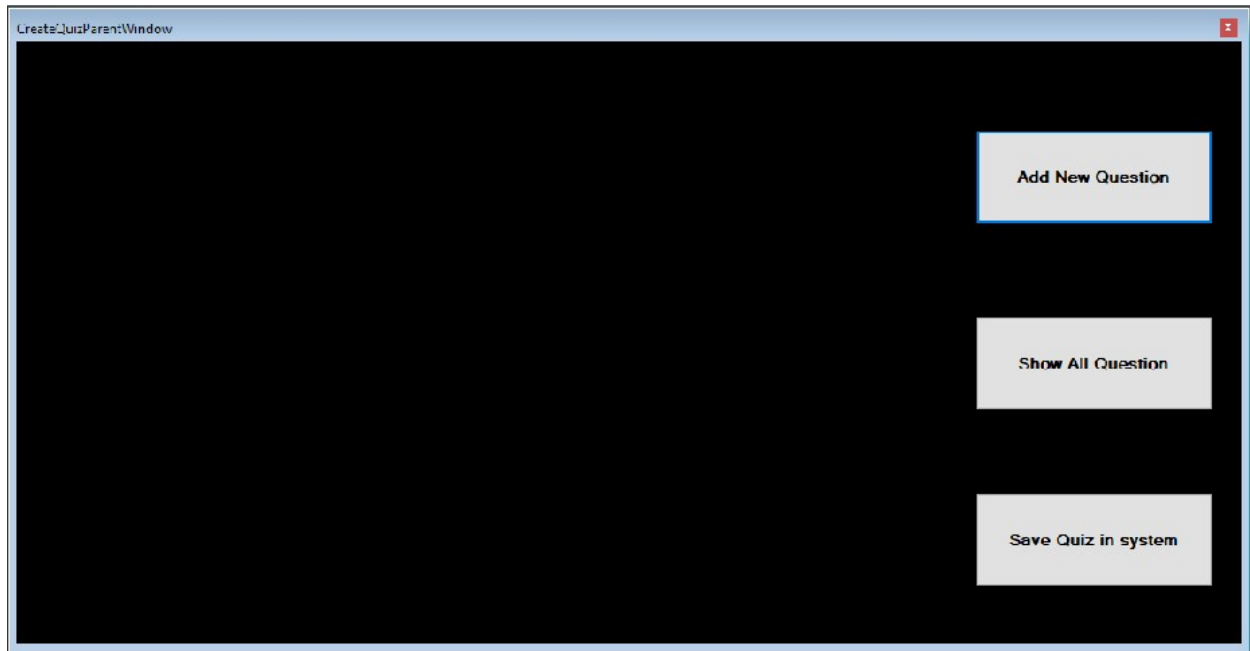


Selecting already Created Topic: Intro, After Selecting



Click on Create Button

Home Screen of CreateQuizWindow



After Clicking on **Add New Question**

Here we have

1. **Question Area**
2. **Add Option** by selecting type
 - a. **MCQs**
 - b. **True/False**
3. **Remove Created Option**

At last Press Save Button place current Question in Dataset for updating it in Database Press **Save Quiz in System** Button

CreataQuizParentWindow

Question Number: 1

Test

Options

Add Option

Type

Save

Add

Remove Selected

Add New Question

Show All Question

Save Quiz in system

Inserting Question

CreataQuizParentWindow

Question Number: 1

Vp standad for?

Options

Add Option

Type

Mcqs

True/False

Save

Add

Remove Selected

Add New Question

Show All Question

Save Quiz in system

Adding Options For Question#1

Question Number: 1

Vp standan for?

Options

- ☐ A) Visual People

Add Option

Type: Mcqs

A.) Visual People

Buttons: Add New Question, Show All Question, Save Quiz in system, Save, Add, Remove Selected

Select the Correct option like here C is the correct option.

Question Number: 1

Vp standan for?

Options

- ☒ C.) Visual Programming
- ☐ D) NONE OF ABOVE

Add Option

Type: Mcqs

D.) NONE OF ABOVE

Buttons: Add New Question, Show All Question, Save Quiz in system, Save, Add, Remove Selected

Then Press **Save** Button

Now select Option Type as **True/False**

Insert Question Details then Press **Add** Button

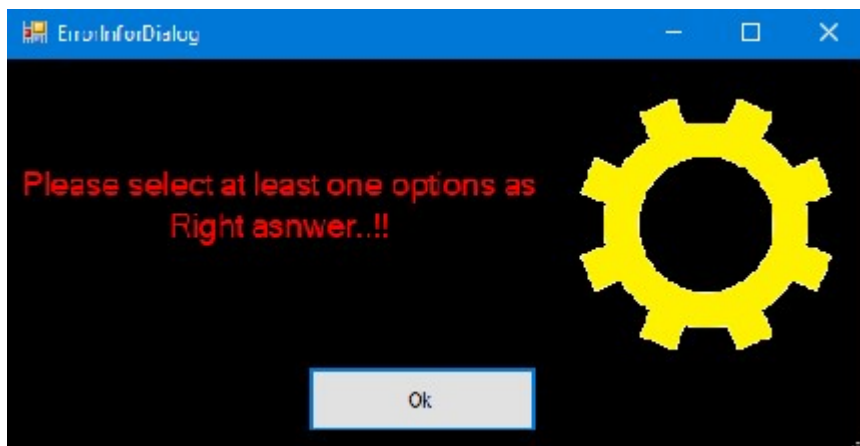
The screenshot shows a software window titled "Create Quiz Parent Window". The interface is dark-themed with yellow text for labels. It contains the following elements:

- Question Number: 1**: A label in yellow text.
- Question Text Area**: A white rectangular box containing the text "Vp standad For Virtual Programming".
- Options**: A label in yellow text next to an empty white rectangular box.
- Add Option**: A label in yellow text above a sub-form.
- Type**: A dropdown menu set to "True/False".
- True/False Selection**: A blue rectangular box containing two radio buttons, "True" (selected) and "False".
- Add**: A button located below the "Add Option" sub-form.
- Remove Selected**: A button located below the "Add" button.
- Save**: A button located below the "Options" text area.
- Add New Question**: A button on the right side of the window.
- Show All Question**: A button on the right side of the window.
- Save Quiz in system**: A button on the right side of the window.

Options are added in Options Area then select Correct Option then Press Save Button

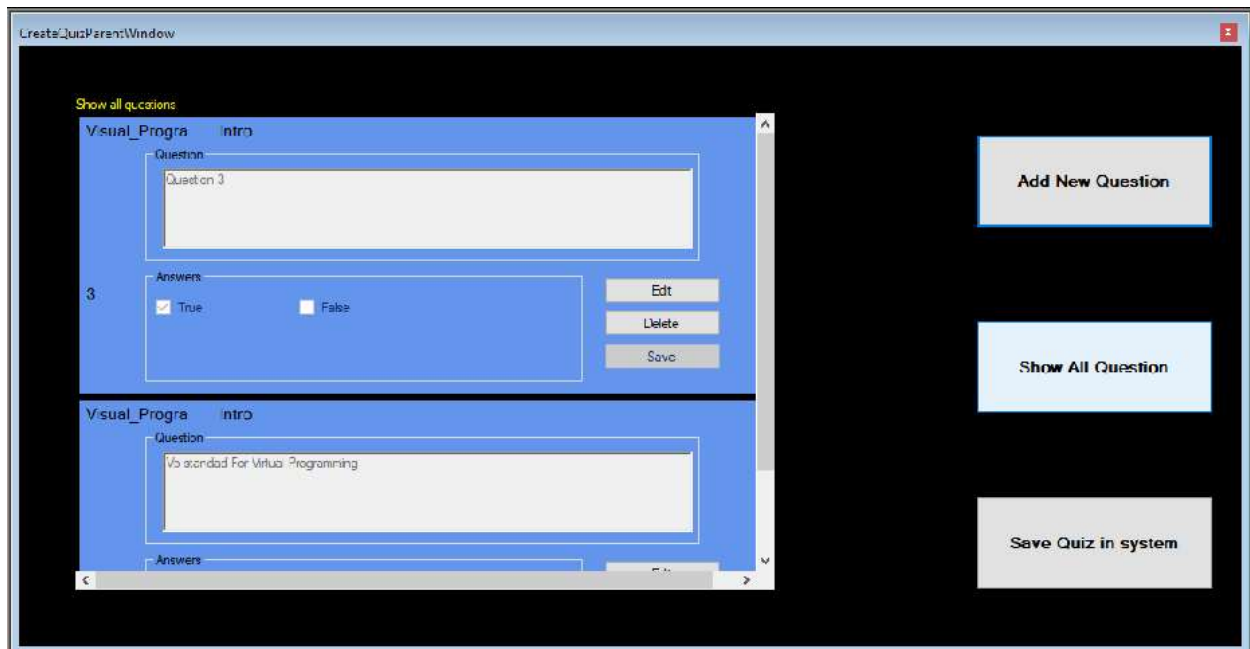
The screenshot shows a software window titled "Create Quiz Parent Window". Inside, there is a section for "Question Number: 1" with a text input field containing "Vp standad For Virtual Programming". Below this is an "Options" section with two radio buttons: "True" (selected) and "False". To the right of the options is an "Add Option" panel with a "Type" dropdown set to "True/False", a sub-panel with "True" and "False" radio buttons, and "Add" and "Remove Selected" buttons. On the far right, there are three buttons: "Add New Question", "Show All Question", and "Save Quiz in system". A "Save" button is located below the options section.

If we *did not* select any Option then it will show popup window in order to navigate the user...

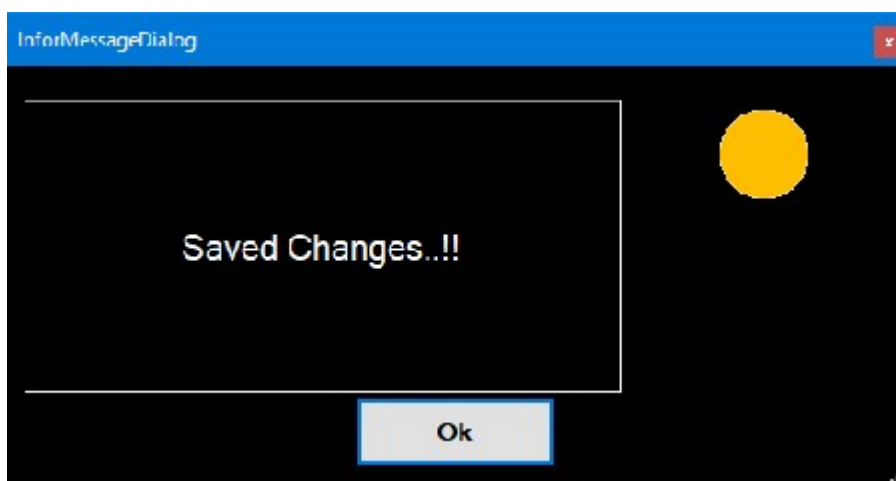


Show All Connection

1. We can edit
2. Update
3. Save Changes



Save Quiz in System



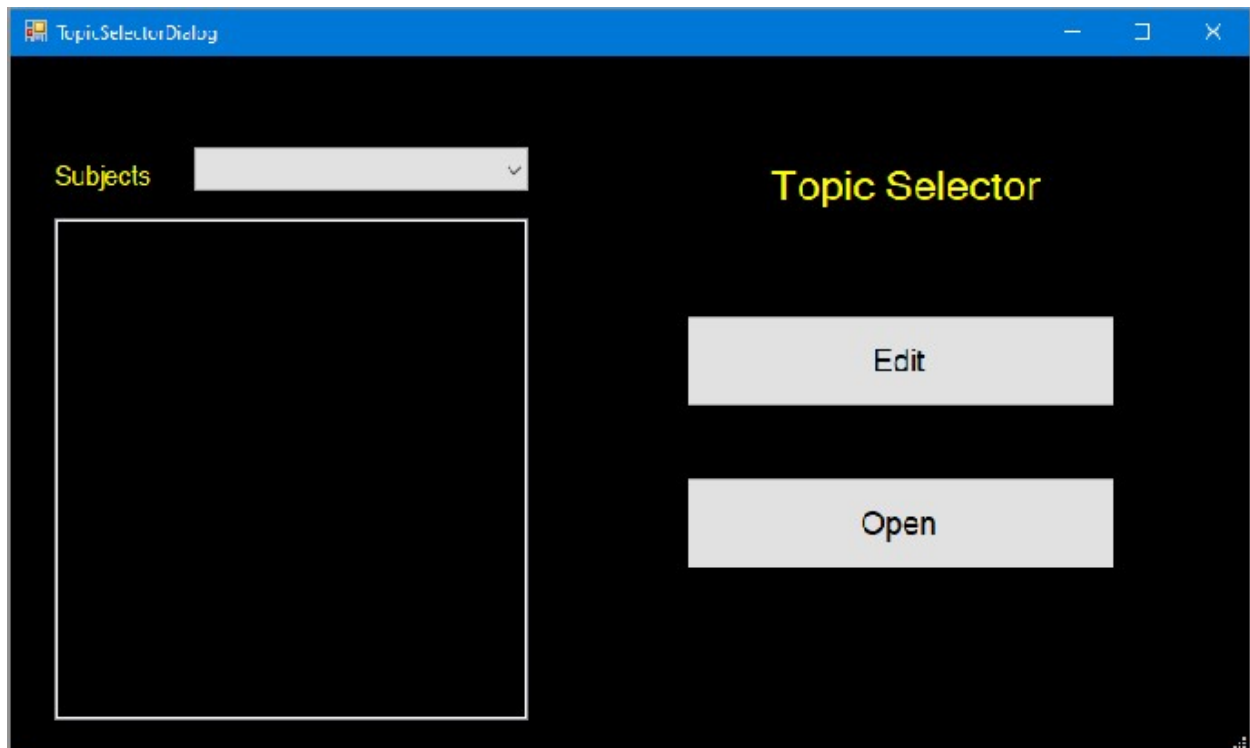
If we move Without Save Current Quiz it will show:



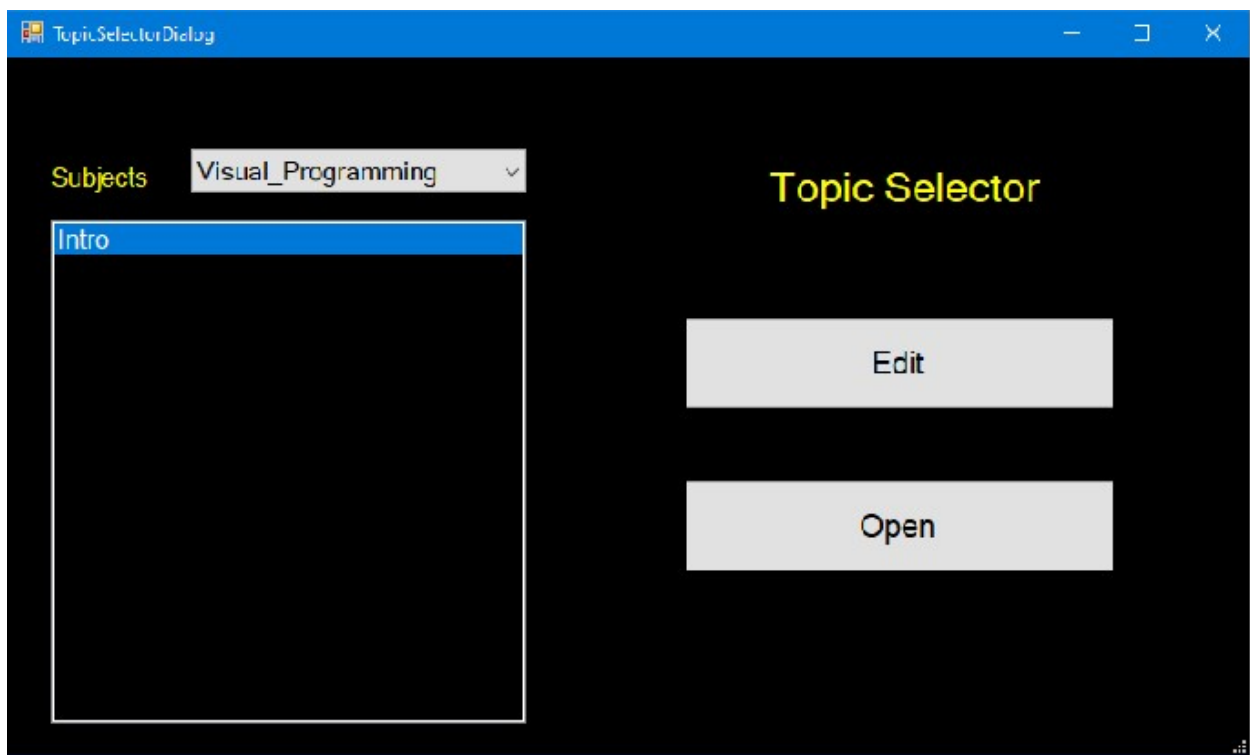
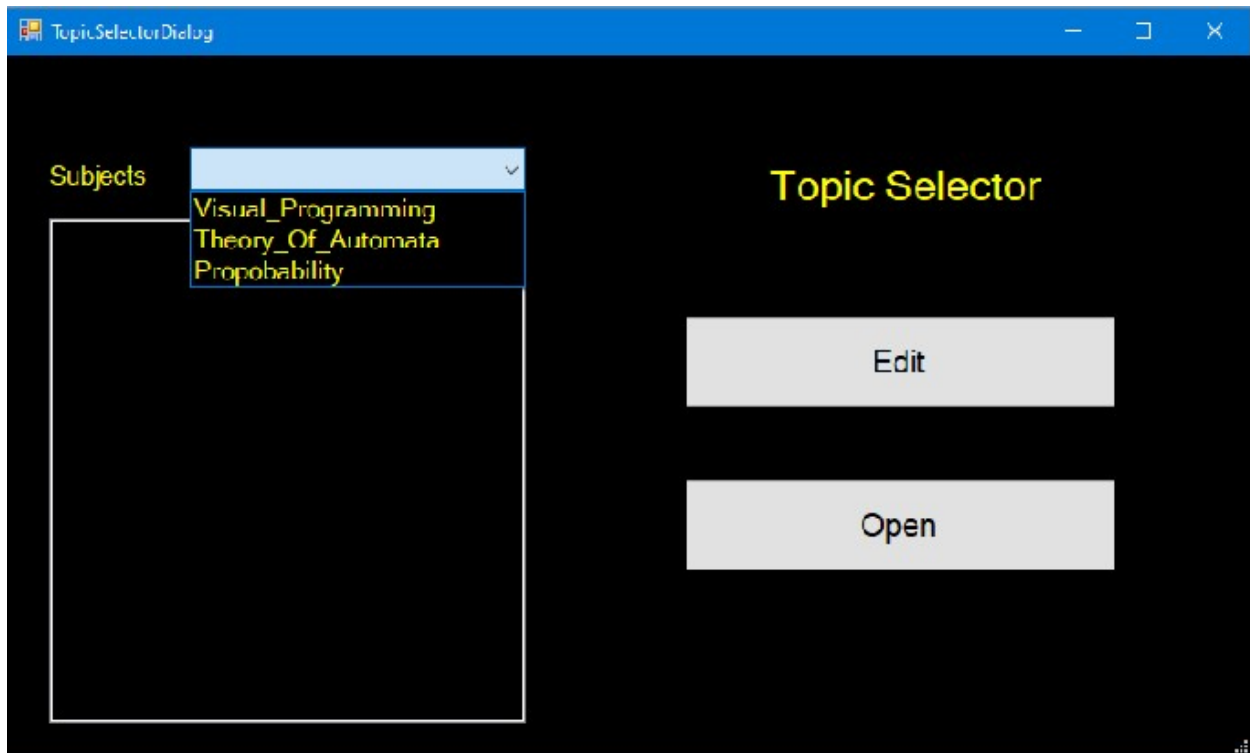
Open Quiz

1. Editor

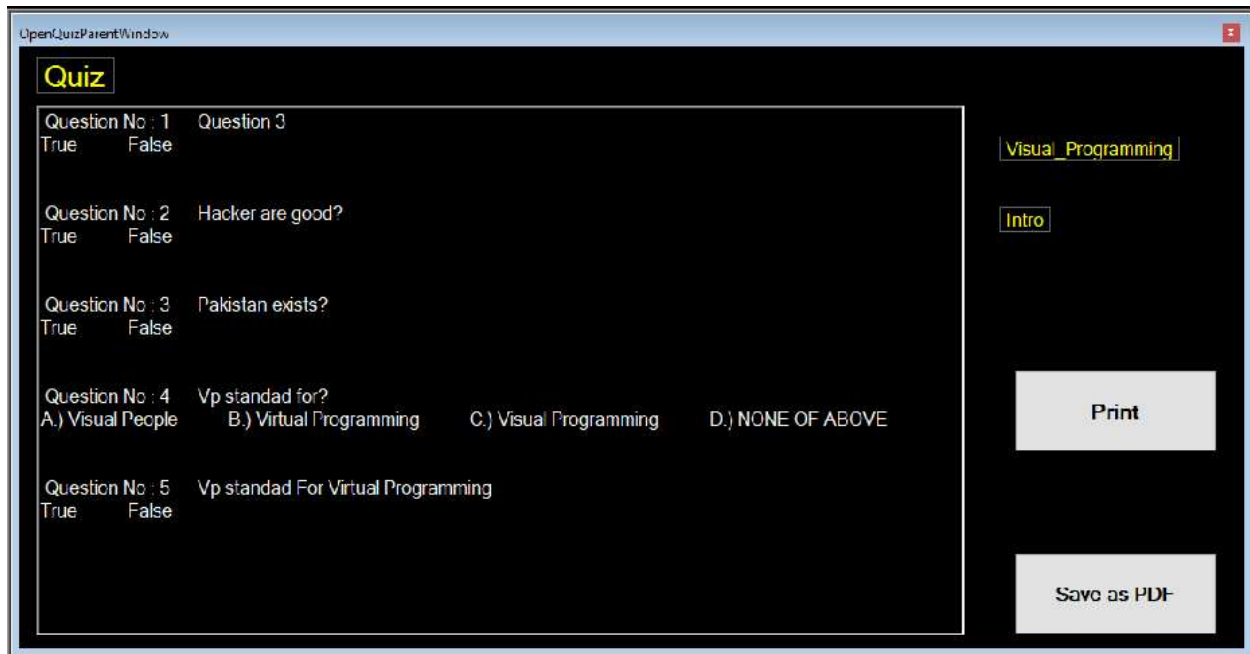
2. Open



Now select Subject and Topic

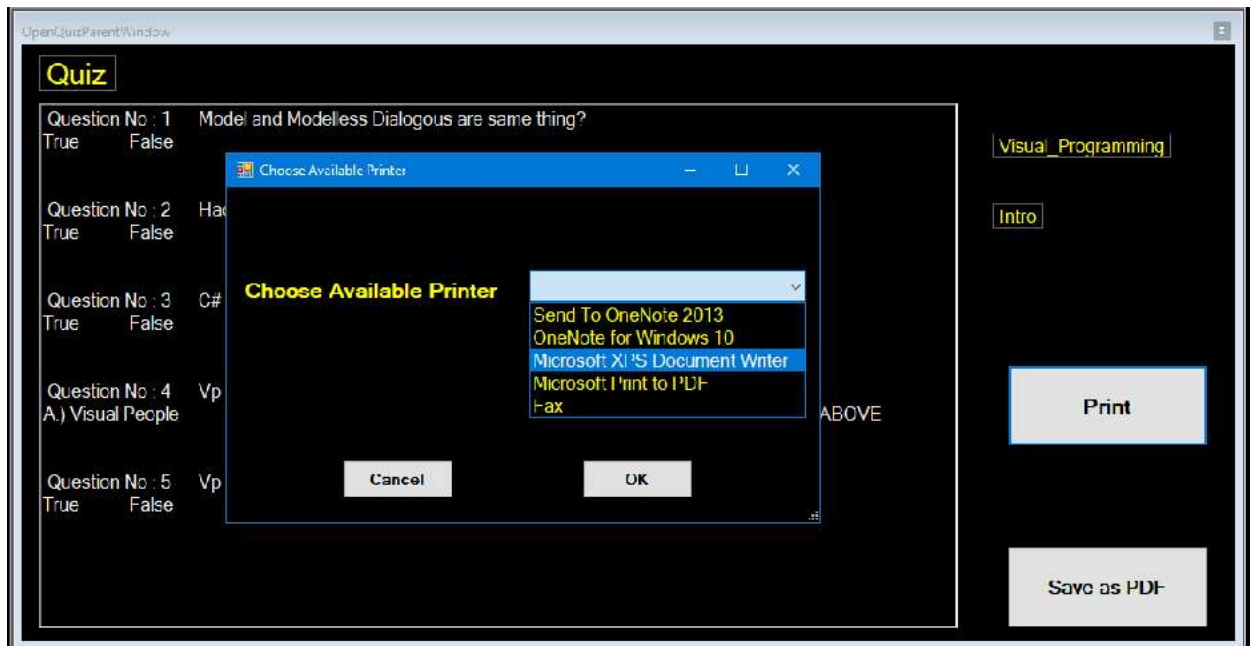


Open



Now we can Print or Save as PDF

For Print



For project resource files see README.txt file

THE END