Vanier College

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GoTest



User Manuel

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# Introduction:

GoTest is a GUI application that will allow teachers to create their own quiz/exam/test using the application, and students will be able to take those examinations logged in as a student. If the user is logged in as a teacher, they can create multiple choice questions. With the questions, teachers will be able to assign the correct answers to them. All these quizzes will be managed by database managers later and students’ grades will be assigned in those databases .As for student user’s, they’ll be able to take the examination after entering their student id and class number then will be appointed to their classes, and from then they’ll chose the class that has the exam.

# Who is this application for?

This application is for teachers who want to create quizzes in the simplest way possible without confusing GUI’s. And, for students to take their exams on. The fact that students take the exam on this application, it is easier for teachers to grade quizzes.

# Specifications needed before running

* The biggest downfall for this app is that I haven’t figured out how to change the connection string automatically when it is transferred to another pc.
* So here are the steps to change it:
  + First access open the properties tab of the mdf file on the server explorer on visual studio
  + Once the property tab is open, copy the new connection string.
  + Then head over to the Connection.cs file and change the SQLconnection string with the newly acquired one

# Selection Page

Graphical user interface

Description automatically generated

When application is opened the user will be introduced with a selection screen prompting them whether to log in as a Student or Teacher.

Teacher User: Logged in as a teacher, the user will be able to create and delete quizzes. A teacher also has the ability to view the students who are registered to the courses being taught by them and also view the results of the students who partake their quizzes.

Student User: Logged in as a student, the user can register for courses and partake in quizzes. Students can then view their results from the quizzes right after completing them.

# 

# Log In pages:

Graphical user interface, text, application

Description automatically generated Graphical user interface, text, application

Description automatically generated

Both log ins for teacher and student users are the same GUI. For teacher users, they will be using a username to log in, but for students they would need their student id instead of a username.

Exceptions Handling For Log in:

* If student id and username is not registered in the database or password does not match username it will display an error label and clear both text boxes.

Graphical user interface, text, application

Description automatically generated

# Registration pages:

Graphical user interface, application

Description automatically generated Graphical user interface, application

Description automatically generated

Same as the log in pages, both users share the same interface except, the student user will not be prompted for a username. When created, both users will have a newly generated id and will be displayed once logged in.

Exception Handling for Register page:

* User Teacher and Student: Passwords must have a minimum length of 5 characters.
* User Teacher and Student: Passwords must match when confirming
* User Teacher: Username must not match any other usernames already inputted in the database.

Graphical user interface, application

Description automatically generated Graphical user interface, application, Teams

Description automatically generated Graphical user interface, text, application, email

Description automatically generated

# Teacher Home Page:

Graphical user interface, text, application, email

Description automatically generated

After a successful log in, you are presented with a simple GUI home page. This the main format of the entire application with a navigation menu on left side of the screen. In the home page you are provided with a description of every button listed on the navigation menu. You can also see that the user’s information will be displayed on the left also.

Log out Button

Clicking the logout button will prompt you this message. If yes is clicked, the application will close, if no or cancel is clicked then no changes will be made

Graphical user interface, application

Description automatically generated

# Teacher Classes Page

Graphical user interface, text

Description automatically generated

This classes page is used to display in a data grid view the list of students currently enrolled in the course the user inputted for. So how it works it that, the user will **input** the **course id** of the class where they would want to see the list of students. Once the **search button** is clicked, it will search for students in the database who are currently enrolled in the specified course. Then those records will be returned to a data table and displayed on the data grid view. The user can also register for a new course as long as it does not have the same name as an existing one.

Exception Handling

* If the user inputs an invalid course Id, it will display an empty data table.

Graphical user interface, application

Description automatically generated

* If a user tries to register a new course with an empty input it will throw and catch an exception displaying this

Graphical user interface, application

Description automatically generated

* If a user tries to register for a course with the same name as an existing one it will throw and catch a SQLException and display this

Graphical user interface, application

Description automatically generated

# Teacher Create Quiz Page:

Graphical user interface

Description automatically generated

Once you arrive at the create quiz page, you will be prompted a user control that will ask prompt you for your new Quiz’s **title**, its **number of questions**, the **course** it will be under and your **id**. Once created, the newly acquired info inputted by the user will be directly be inputted in the database. If successfully created, the create quiz user control will disappear and the user will move onto adding the questions.

Exception handling for create quiz User Control:

* If any of the criteria demanded is not correct it will prompt this error message.

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

After creating your quiz, you will now have to fill up the questions. With every question you are aloud up to 4 choices and minimum of 2 choices. **If you only want two or three choices, you must click the remove button to remove those options**. Once the **done** button is clicked it, it will send the questions and its answers to the database under the Quiz associated to it. You will repeat this process until you’ve reached the amount that you specified when creating the quiz. You will be prompted with a message box at the end.

Graphical user interface, text, application, Teams

Description automatically generated

# Teacher View Quizzes:

Graphical user interface, application

Description automatically generated

The View Quizzes page provides teachers to look through the quizzes they have made and see the results their students have acquired. The **search** button searches throughout the database to find all quizzes registered under your id and will display it in the data grid view. The **view Student Results button** searches for student’s results under your id and will display it also on the data grid view. As for the delete button, if ever a teacher wants to remove a quiz, they would just have to enter the id of the quiz they would like to remove and click delete.

Exception Handling for Teacher View Quizzes page:

* If ever the delete button is clicked and it is empty, this message box will pop up.

Graphical user interface, application, Teams

Description automatically generated

* Also if the inputted quiz id does not correspond to any id in the database, it will catch the exception and display this message box.

Graphical user interface, application

Description automatically generated

# Student Home Page

Graphical user interface, text, application, email

Description automatically generated

The student home page as the same format as the teacher home page. The user is introduced with instructions with every button listed in the navigation bar.

Log out Button

Clicking the logout button will prompt you this message. If yes is clicked, the application will close, if no or cancel is clicked then no changes will be made

Graphical user interface, application

Description automatically generated

# Student Register Course Page:

# Graphical user interface, text Description automatically generated

On this page, students will be able to view their courses and a list of all courses they could register to. The view your course button provides a data table where all your current courses will be displayed. As for the view courses button, you will be able to view all of the courses currently registered in the database. If you want to register for a course, just type in the course id on the far right and click the register button to be added in the student list for that course.

Exception Handling for Register Course Page:

* This page will throw an exception if the user either inputs an empty course id or a invalid id. It will catch it and display this message box.

Graphical user interface, text, application

Description automatically generated

# Student View Quiz Page

Graphical user interface

Description automatically generated with medium confidence

For this page, users will have to input the id of the quiz they would like to do. If ever the user enters the incorrect id or nothing and presses the play button, it will throw an exception and catch it displaying this message box.

Graphical user interface, application, Teams

Description automatically generated

After entering the id of the quiz you would like to take, the user control’s visibility will be set to true and displaying this UI where you will be able to start your quiz:

Graphical user interface, text

Description automatically generated with medium confidence

As you can before starting the quiz right away, there is a start button. Once clicked it will set start button’s visibility to false and set the next button’s visibility to true. With every question you must fill in the answer box and enter it. If not, your answer will automatically be assigned as nothing.

Graphical user interface, text, application

Description automatically generated

Once you have reached the end of the quiz, you will be show this message box:

Graphical user interface, application

Description automatically generated

# Student View Results Page:

Graphical user interface

Description automatically generated with medium confidence

As for the final page for the student user, the results page will display the user’s results in every quiz he/she has ever taken on the app (if of course the teacher has not deleted the quiz) with just the click of a button. If ever the data table is empty it is because you have not taken any test yet.