

CSC 234 – CODED UI MANUAL FOR WINDOWS FORM LOGIN

TEAM C

The aim of demo is to test how effective is Coded UI for another **Desktop Application that uses Database (For example – SQL Server 2016)**. This application is a simple Login window that allows users to login if access is granted.

To make this application work, following setup needs to be done:

Step 1: In Visual Studio, Select **Tools > Get Tools and Features**. This will open the Visual Studio Installer.

Note: You might have to update the installer. So, click on update button if pop up opens. Else perform the following steps.

Step 2: In Visual Studio Installer, select **“Workloads”** tab and then select **.NET Desktop development** and then click on **“modify”** button at the right bottom of the installer window.

.NET Desktop Development is now installed. This will allow us to create new C# (Windows Form Application) applications or open downloaded application or a project.

Step 3: Install **SQL Server 2016** and **SQL Server Management Studio**.

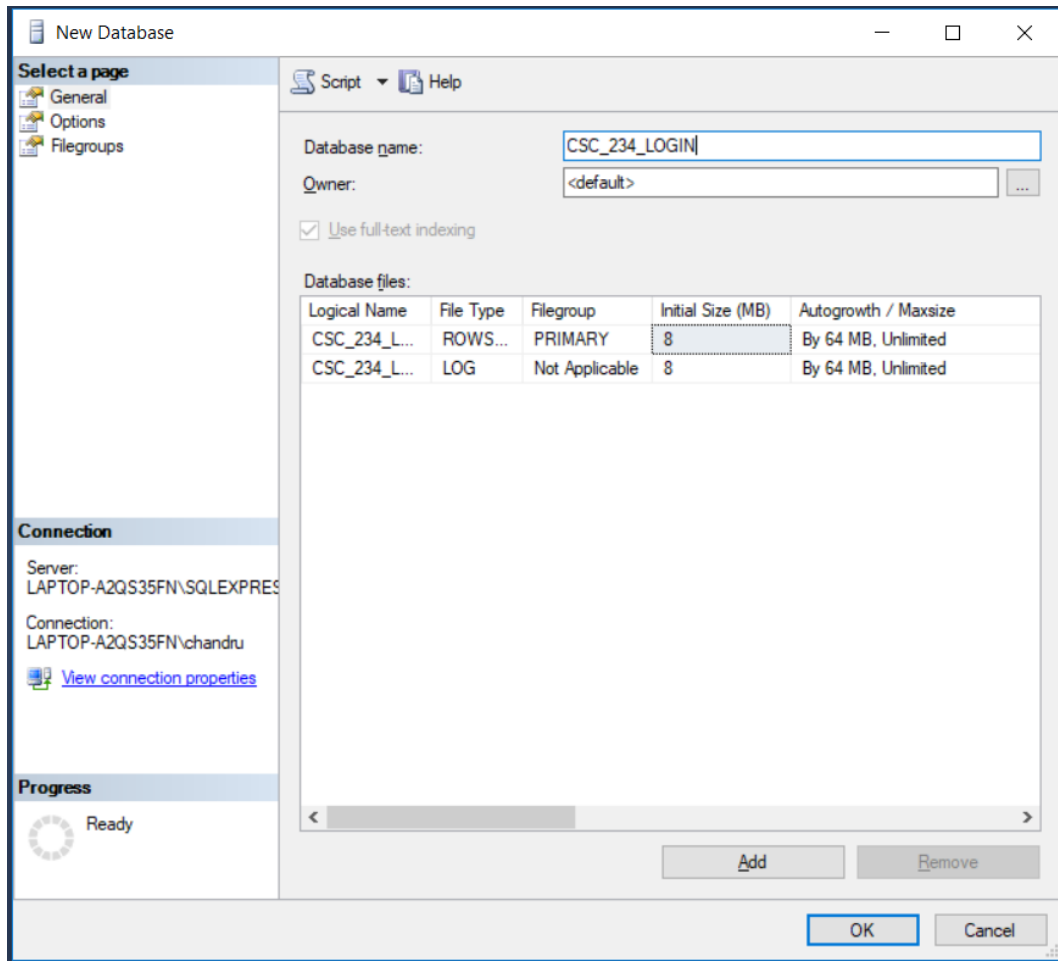
Following are the steps to download the application from **ECS gitlab**:

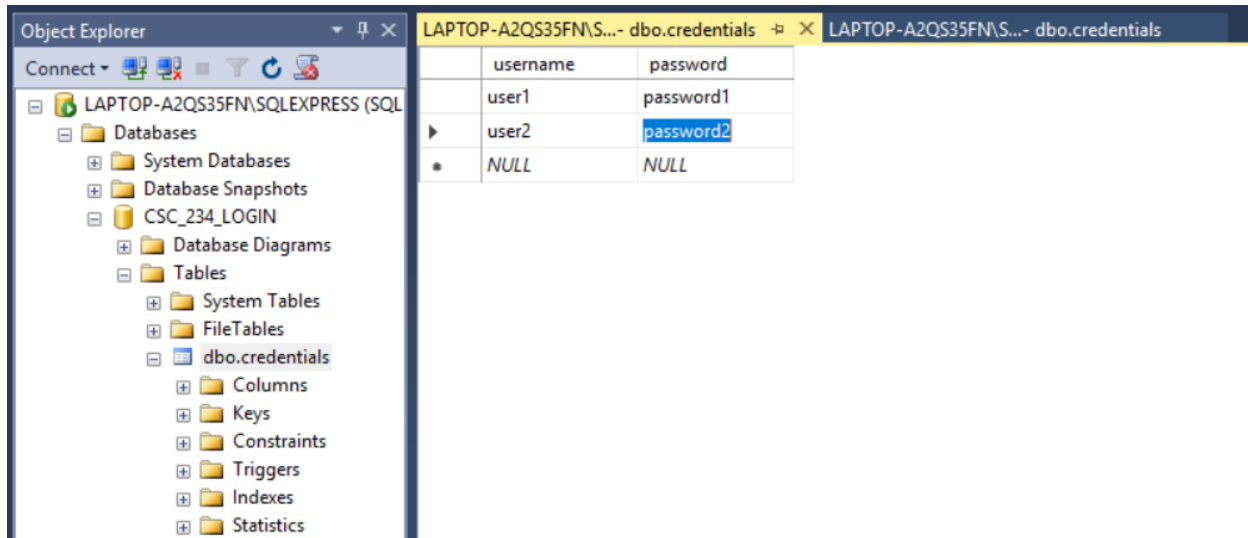
Step 1: Go to <https://gitlab.ecs.csus.edu> and provide your ECS login credentials.

Step 2: Download all the attachments from https://gitlab.ecs.csus.edu/csc-234---team-c/csc234_project2_demo2.git (including the pictures attached) **OR** alternatively you can use github link - https://github.com/sharmilapjc/CSC234_Project2_WinForm_login

Step 3: Open the downloaded application in Visual Studio.

Step 4: Create database and table in SQL Server 2016 containing two columns: username and password as shown in the figures below. Note that the names of Database, table and column names in the application should match with the database you create.





This application's Recording, Adding assertion, Playback steps are similar to Demo 1 steps. This means, you need to follow the same steps but instead of the Calculator application, you will be using CSC 234 Login Demo Application.

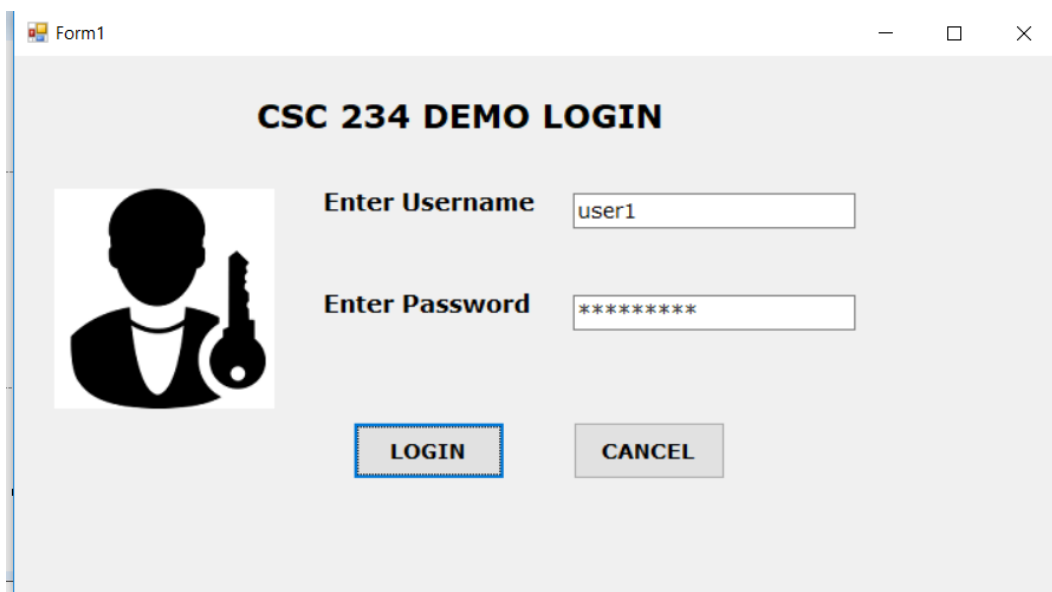
We tried to screenshot the major differences in Demo 2 from Demo 1. Please contact us if you have any questions.

Step 1: Build and run the downloaded application.

Step 2: Launch the Coded UI Test Builder as done in Demo 1.

Step 3: Now we can start recording the actions such as providing username, password and clicking on login button.

TEST CASE – 1 (Valid Username and Password)

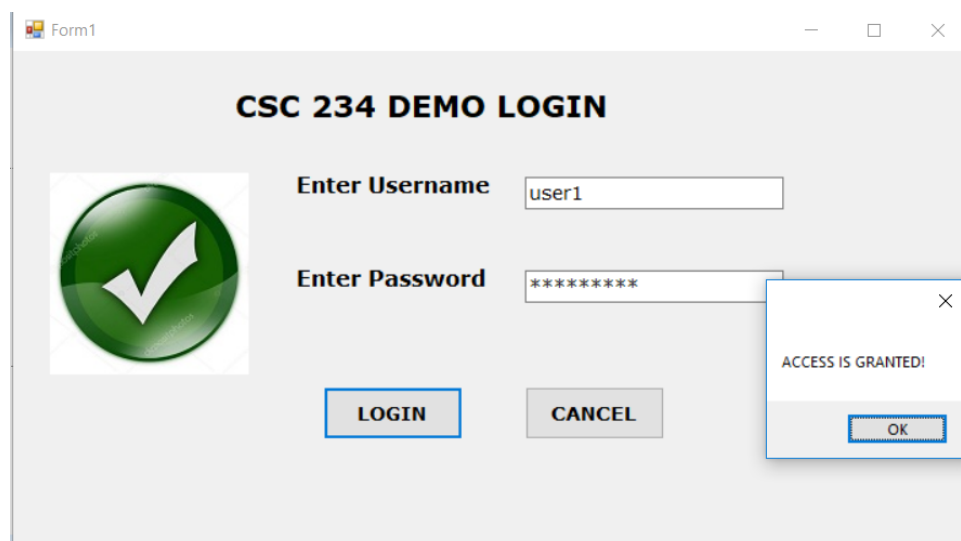


CSC 234 DEMO LOGIN

Enter Username

Enter Password

LOGIN **CANCEL**



CSC 234 DEMO LOGIN

Enter Username

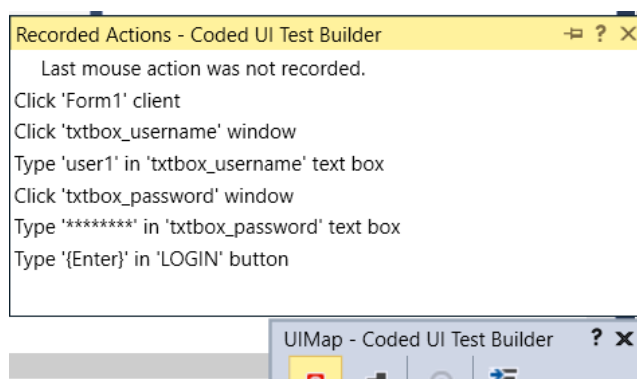
Enter Password

LOGIN **CANCEL**

ACCESS IS GRANTED!

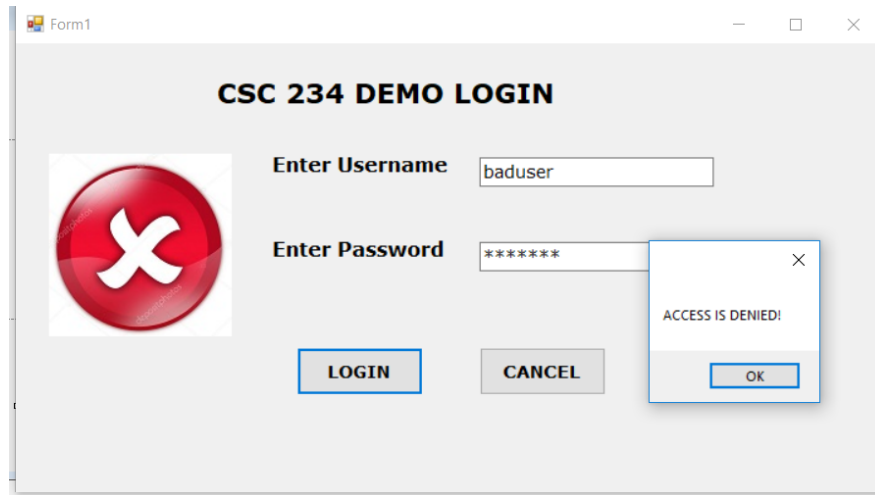
OK

Following are the recorded steps for Test case -1

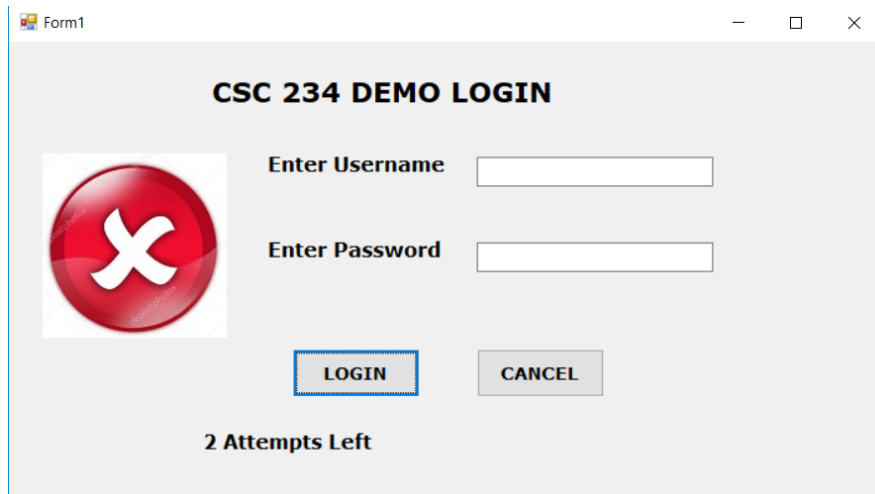


We can add an assertion to the pop up that displays the message “Access is granted”.
Playback test case is similar to Demo 1.

TEST CASE – 2 (Invalid Username and Password)



Clicking on OK will display the number of attempts remaining.



Other test cases include:

Test case 3 - invalid Username and valid password

Test case 4 - valid username and invalid password

Test case 5 – Reaching maximum number of attempts

Test case 6 – Clicking on cancel will close the login window.

Test case 7 – Checking the image (if correctly displayed for Access granted)

Test case 7 – Checking the image (if correctly displayed for Access denied).

For all the above test cases follow the Record, Assertion and playback steps as shown in Demo 1 – Calculator Application.