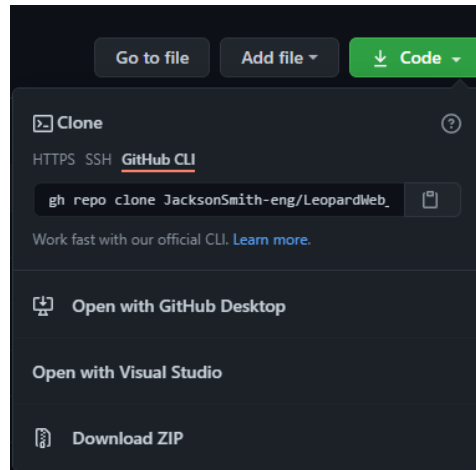# User manual

1. **Getting the code**
   a. Download the code from GitHub (https://github.com/JacksonSmith-eng/LeopardWeb_Assignment_ELEC3225.git) by clicking the code tab and then click download zip (as seen below)


   b. Open up your file application and find where the file was downloaded
   c. Right-click on the file and click on the tab called extract all…
   d. Then a folder should pop up and then click on the file once
   e. Keep file up for later

2. **Setting up visual studio**
   a. Open up visual studio, and create a new project.
   b. Once the project is created, right-click on the solution explore and then click the tab called manage NuGet package for solution
   c. Then a display will pop up, in which you want to click browse
   d. Once on browse search up sqlite3_c_plus_plus in the search bar (as seen in the image below)
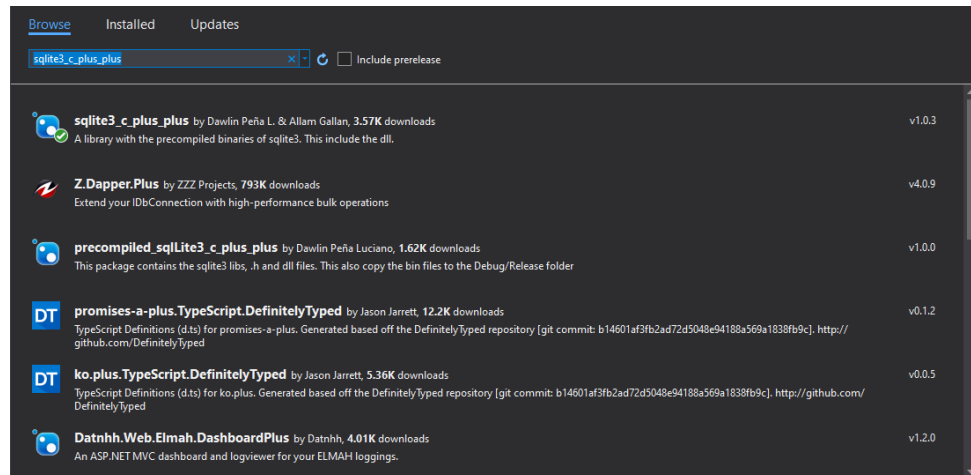
e. Click on the first option and then click install(mimic what is seen in the image below)
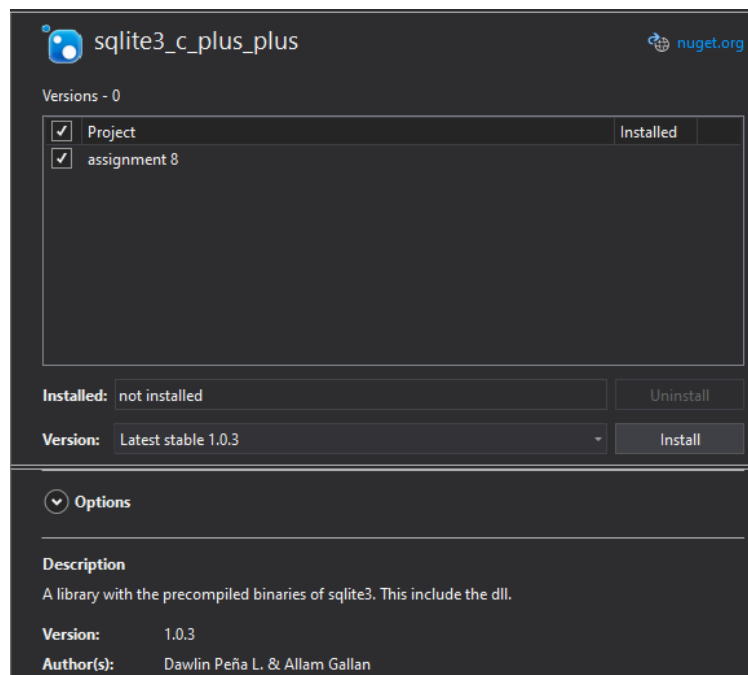
f. Then click ok on the pop (as seen below)
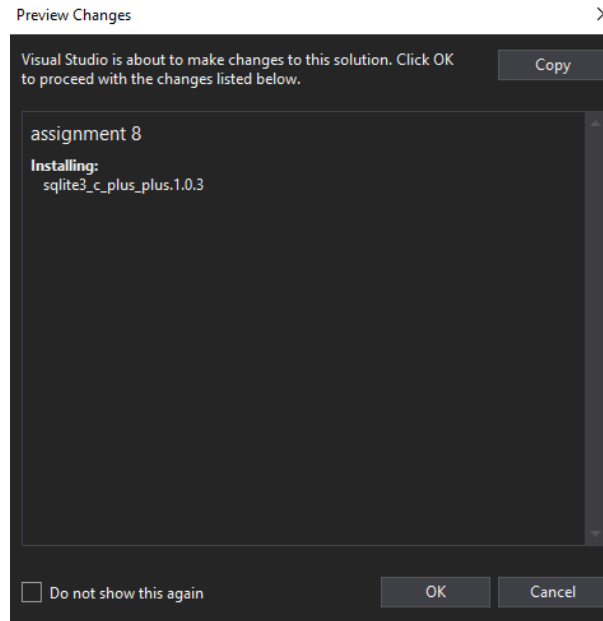
3. **Putting the file on visual studio**
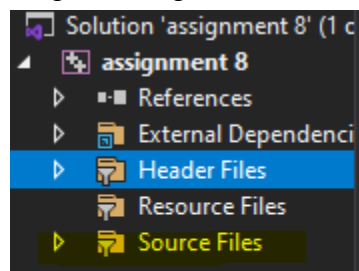   a. Go to the folder that has the code that you open before
   b. Ctrl + left click on the derided file (as highlighted below)

   c. Drap and drop the file into the source section the solution explore

4. **Running the code**
   a. Click on the file in the solution explore called leopardWeb_main

b. Look in the code for something similar to what is seen in the image below. We will be changing what is in the quotes

```
// Main function written by group
int main() {
    /***************************************************/
    const int MAXSTUDENT = 100;
    const int MAXINSTRUCTOR = 10;
    const int MAXADMIN = 1;
    /***************************************************/

    std::ifstream inputStream;
    inputStream.open("The_Tests\\test_admin_showInfo.txt");

    std::ofstream outputStream;

    const char* dir = "C:\\Users\\smithj42\\Documents\\2020-2021\\Applied_Programming_Concepts\\Semester_Assignment\\LeopardWeb_Assignment\\LeopardWeb_Assignment_ELEC3225\\The_Database\\leopardWeb.db"
    sqlite3* DB;

    int userID;
    int userType = 0, numStudent = 0, numInstructor = 0, numAdmin = 0, run_program = 1;
```
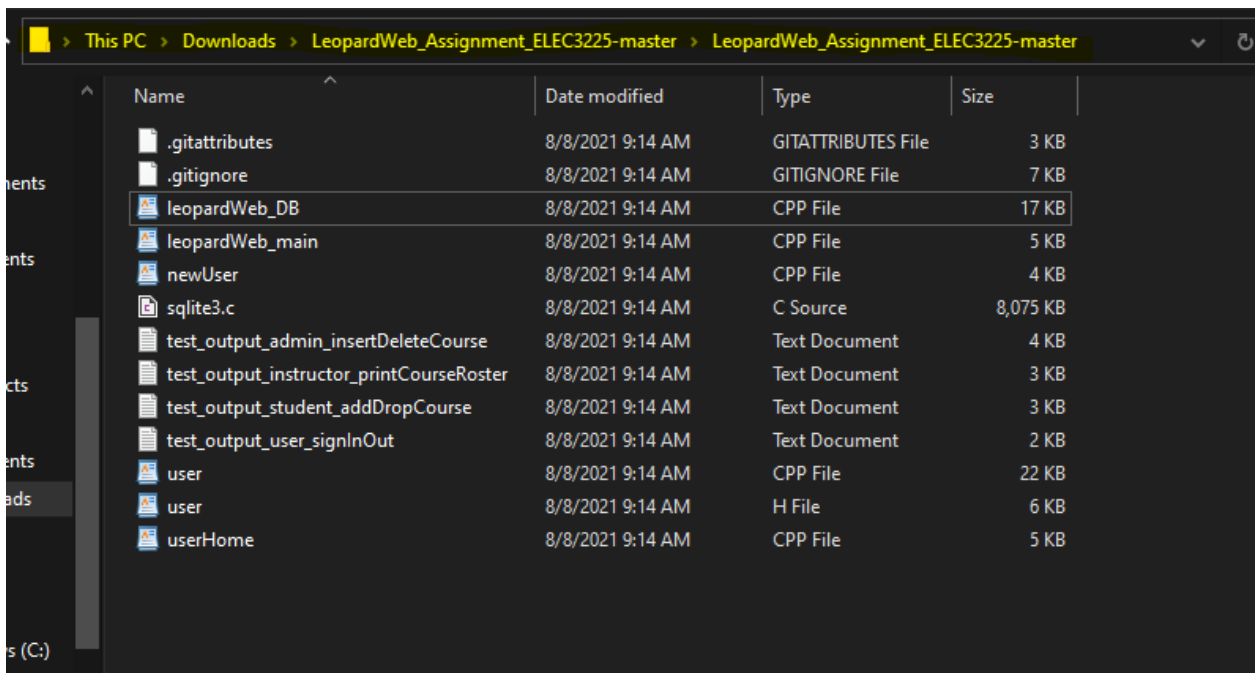
c. Go back to the folder where the code can be found
d. Right-click on the top of the bar as highlighted in the image below

Name	Date modified	Type	Size
.gitattributes	8/8/2021 9:14 AM	GITATTRIBUTES File	3 KB
.gitignore	8/8/2021 9:14 AM	GITIGNORE File	7 KB
leopardWeb_DB	8/8/2021 9:14 AM	CPP File	17 KB
leopardWeb_main	8/8/2021 9:14 AM	CPP File	5 KB
newUser	8/8/2021 9:14 AM	CPP File	4 KB
sqlite3.c	8/8/2021 9:14 AM	C Source	8,075 KB
test_output_admin_insertDeleteCourse	8/8/2021 9:14 AM	Text Document	4 KB
test_output_instructor_printCourseRoster	8/8/2021 9:14 AM	Text Document	3 KB
test_output_student_addDropCourse	8/8/2021 9:14 AM	Text Document	3 KB
test_output_user_signInOut	8/8/2021 9:14 AM	Text Document	2 KB
user	8/8/2021 9:14 AM	CPP File	22 KB
user	8/8/2021 9:14 AM	H File	6 KB
userHome	8/8/2021 9:14 AM	CPP File	5 KB

This PC > Downloads > LeopardWeb_Assignment_ELEC3225-master > LeopardWeb_Assignment_ELEC3225-master

e. Copy and paste that information into the quotation referred to before
f. You add an extra "\ "to every "\" that already existed
g. Add " \\leopardWeb.db" end of what you copy and paste into the quotation
h. Find the section as seen below

```
createDB(dir);
// Comment out when program is implemented: BEGIN
/*createTable(dir, "STUDENT");
createTable(dir, "INSTRUCTOR");
createTable(dir, "ADMIN");
createTable(dir, "COURSE");
createTable(dir, "ROSTER");
*/
```

i. Uncomment this section by taking out the " /* */ "Note after the first time you can comment this section out again)

j. Click on the local window debugger (look for something as seen below)

> Local Windows Debugger ▾
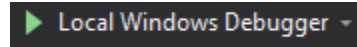
k. Then a screen should pop out like as been below

```
Records Created Successfully!

* * * LeopardWeb * * *
1: Sign in
0: End program
```

5. **Using the program**
   a. Enter 1 and will prompt the user for an ID number
      i. For Student
         1. Enter any value between 1000 - 1010 for student ID
         2. You will get a menu option, as seen below

```
* * * Student Home * * *
1: Search courses
2: Add/Drop courses
3: Display schedule
4: Display all student info
0: Sign out
```

   a. Search course (enter 1)
      i. Choose option 1 (enter 1)
         1. Enter the course ID you want to find (course ID run through 4000-4009).
         2. Will display the information about that course ID
      ii. Choosing option 2 (enter 2)
         1. Will display all of the course information
      iii. Choosing option 0 (enter 0)
         1. Return the user to the student menu
   b. Add/ Drop Course (enter 2)
      i. Option 1 (enter 1)
         1. Option 1 (enter 1)
            a. Enter the course ID you want to find (course ID run through 4000-4009)
            b. Will display the information about that course ID
         2. Option 2 (enter 2)

a. Will display all of the course
                           information
                    3. Option 0 (enter 0)
                        a. Return the user to the original
                           menu
            ii. Option 2 (enter 2)
                    1. Display the current schedule for the
                       student
            iii. Option 3 (enter 3)
                    1. Prompt users for the course ID they
                       want to add to the schedule
            iv. Option 4 (enter 4)
                    1. Prompt users for the course ID they
                       want to remove from the schedule
            v. Option 0 (enter 0)
                    1. Return the user to the original menu
    c. Display schedule (enter 2)
            i. Display the schedule for the user
    d. Display student information (enter 3)
            i. Display the information about the current
               student signed in
    e. Signout (enter 0)
            i. Prompt users to verify that they want to sign
               out
                    1. Option 1 (enter 1)
                        a. It goes back to the student
                           user menu
                    2. Option 0 (enter 0)
                        a. It goes back into the sign-in
                           menu

ii. Instructor
    1. Enter any value between 2000 - 2009 for Instructor ID
    2. You will get a menu option, as seen below

    a. Search course (enter 1)
            i. Option 1 (enter 1)

1. Enter the course ID you want to find (course ID run through 4000-4009)
2. Will display the information about that course ID
    ii. Choosing option 2 (enter 2)
        1. Will display all of the course information
    iii. Choosing option 0 (enter 0)
        1. Return the user to the instructor menu
b. Display roster (enter 2)
    i. Display the rooster for class the instructor is assigned to
c. Display all instructor information (enter 3)
    i. Display information about the current instructor signed in
d. Signout (enter 0)
    i. Prompt users to verify that they want to sign out
        1. Option 1 (enter 1)
            a. It goes back to the student user menu
        2. Option 0 (enter 0)
            a. It goes back into the sign-in menu
iii. Admin
    1. Enter 3000 for Admin ID
    2. You will get a menu option, as seen below

```
* * * Admin Home * * *
1: Add/Remove courses
2: Add users
3: Add/Drop students
4: Search for courses
5: Search for rosters
6: Display courses
7: Display all admin info
0: Sign out
```

a. Add/ remove course (enter 1)
    i. Option 1 (enter 1)
        1. Enter the course ID you want to add to the system

2. Enter the instructor ID teaching the course
3. Enter the name of the course
4. Enter the department the course will belong to
5. Enter the time frame the course happens(ex 1-1:50)
6. Enter the day of the week the cIt goes happens (ex M W T). Monday (M), Tuesday (T), Wednesday (W), Thursday (R), and Friday (F)
7. Enter the semester the course is taking place in (fall, spring, or summer)
8. Enter the year the course will take place in
9. Enter the amount of credit the course is worth

ii. Option 2 (enter 2)
1. Enter the course ID you want to remove from the system

iii. Option 0 (enter o)
1. Return the user to the admin menu

b. add user (enter 2)
i. Option 1 (enter 1)
1. Adding student (enter 1)
a. Create the Student ID (must be between 1010-1999)
b. Enter student first name
c. Enter student last name
d. Enter the student major
e. Enter the year the student will be graduating
2. Adding instructor (enter 2)
a. Create the Instructor ID (must be between 2010-2999)
b. Enter instructor first name
c. Enter instructor last name
d. Enter their title

                e. Enter the department they work for

                f. Enter the highest degree that has earned

           3. Adding admin (enter 3)

                a. Create the Admin ID (must be between 3001-3999)

                b. Enter admin first name

                c. Enter admin last name

                d. Enter their title

                e. Enter their office location

       ii. Option 0 (enter 0)

           1. Return the user to the admin menu

   c. add/drop student (enter 3)

       i. Option 1 (enter 1)

           1. Enter the student ID you want to add to the course

           2. Enter the course ID you add the student to

       ii. Option 2 (enter 2)

           1. Enter the student ID you want to remove from the course

           2. Enter the course ID you are removing the student from

       iii. Option 0 (enter 0)

           1. Return the user to the admin menu

   d. Search course (enter 4)

       i. Choose option 1 (enter 1)

           1. Enter the course ID you want to find (course ID run through 4000-4009)

           2. Will display the information about that course ID

       ii. Choosing option 2 (enter 2)

           1. Will display all of the course information

       iii. Choosing option 0 (enter 0)

           1. Return the user to the original menu

   e. Search roster (enter 5)

       i. Option 1 (enter 1)

1. Enter the course ID of the Rooster you want to look at (course IDs are usually in the 4000 range)
2. Will display all of the student names and IDs that are in that specific course

   ii. Option 2 (enter 2)
1. Display the roster for every course there is in the system

   iii. Option 0 (enter 0)
1. Return the user to the original menu

f. Display course (enter 6)
   i. Will display all the courses that exist in the system

g. Display All admin info (enter 7)
   i. Display the information about the current admin login

h. Signout (enter 0)
   i. Prompt users to verify that they want to sign out
1. Option 1 (enter 1)
   a. It goes back to the student user menu
2. Option 0 (enter 0)
   a. It goes back into the sign-in menu

b. Enter 0 to exit the program
c. Will prompt users to verify that they want to exist
   i. Option 1
1. Will return to the sign-in menu
   ii. Option 2
1. Will exist the whole program