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Installation Steps

Hello Dr. Beard,

The below details the process to compile and run our code. Starting off, please grab the location path from where our .zip file is stored on your machine. It like is **C:\<User>\Downloads\MinMaxVis-capstone-project.zip .** You’ll want to extract the zip file into a separate folder, and from there, copy the path upwards into the **app** folder, it should look like this:

**C:\<User>\Downloads\MinMaxVis-capstone-project\app** or **C:\<User>\Downloads\MinMaxVis-capstone-project\MinMaxVis-capstone-project\app** if you extracted the zip file into another folder of the same name.

1. If you don’t already have an educational license for Qt, you’ll need to sign up for it at:
   1. <https://www.qt.io/qt-educational-license#application>
2. After you’re verified there, you will receive an email regarding installation for Qt, which we happily provide next. That will take you to the following page:
   1. <https://www.qt.io/download-qt-installer>
3. Opening the link above, will begin the download for the Qt online installer for your machine.

Setting up Qt

1. Once the installer is finished, you’ll need to run it. You’ll be shown the window for Qt Setup on running it. Here, log in to the account you create(d) with the **Educational License** in the app. Choose any option on the **Contribute to Qt Development** window. You can leave the installation folder as the default, choosing the **Qt 6.8 for desktop development** option.
2. On the **Select Components** page now, choose the Qt for MSVC 2022 64-bit (**Qt>Qt 6.82.MSVC 2022 64-bit)** . Along with that, in **Build Tools** folder, contains Cmake and Ninja options, both of which will be helpful to install. The remaining options, you should uncheck because it will get up to 40+GB fast.
3. Hit the “Next” button to go to the **License Agreement** page, accepting those will take you to the install screen, you can skip the start menu shortcuts part. It will take another moment to install the Qt software.

After Qt Setup

1. As soon as Qt is installed, open up Visual Studio. On the first screen, you should see an option to open a local folder.
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2. At the start, you hopefully wrote down somewhere or opened our project code into a separate folder on your file explorer, that **app** folder is the one you will want to open for this local folder in Visual Studio.
3. Once loaded, bee-line to the **Extensions** option on the tool bar, search for **Qt Visual Studio Tools,** you’ll need to install that.
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4. It might pop up a dialog to set up Qt, if not that is alright. Go back to the **Extensions** menu, and now choose the recently-added **Qt VS Tools>Qt Versions** options.
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5. In a previous step, we had you install and setup Qt with the **6.82.MSVC 2022 64-bit** installation. If you used the default installation path, you can find it at:
   1. **C:\Qt\6.8.2\msvc2022\_64**
6. The below dialog should be on your screen now. Click the “**Import**” button by **Manage Qt Versions**, and then locate your install path for the msvc2022\_64 folder, as mentioned, it should be in the install path you set for Qt.
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7. Your screen should look very similar to this. If there are no symbols in the “Default” for MSVC, click “Default” next to “Remove”. From there, you are mostly set. Click “Ok”.
8. Restart your Visual Studio next, and re-open the previously opened folder for our app. Visual Studio hopefully now has began configuring and compiling the code on your machine.
9. Upon hitting the “Run” button, you should now see our app running. You’ll likely be greeted with a nice game of TicTacToe