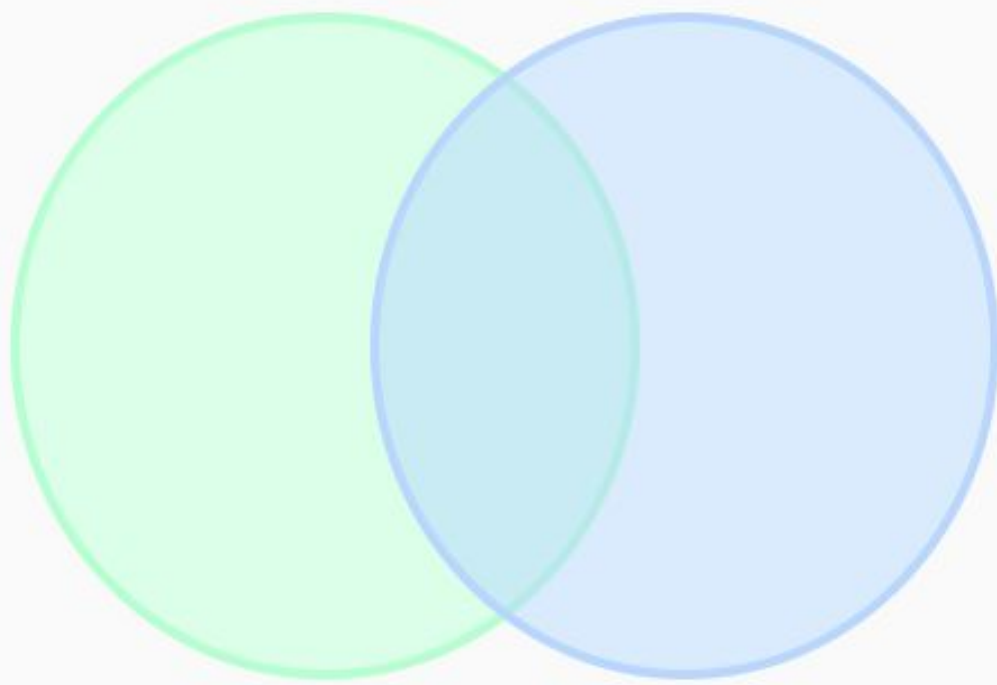


VENN DIAGRAM

SOFTWARE USER MANUAL

REUBEN NINAN, ERIC KWOK, EDWARD NWOGWUGWU, SHAUN LI

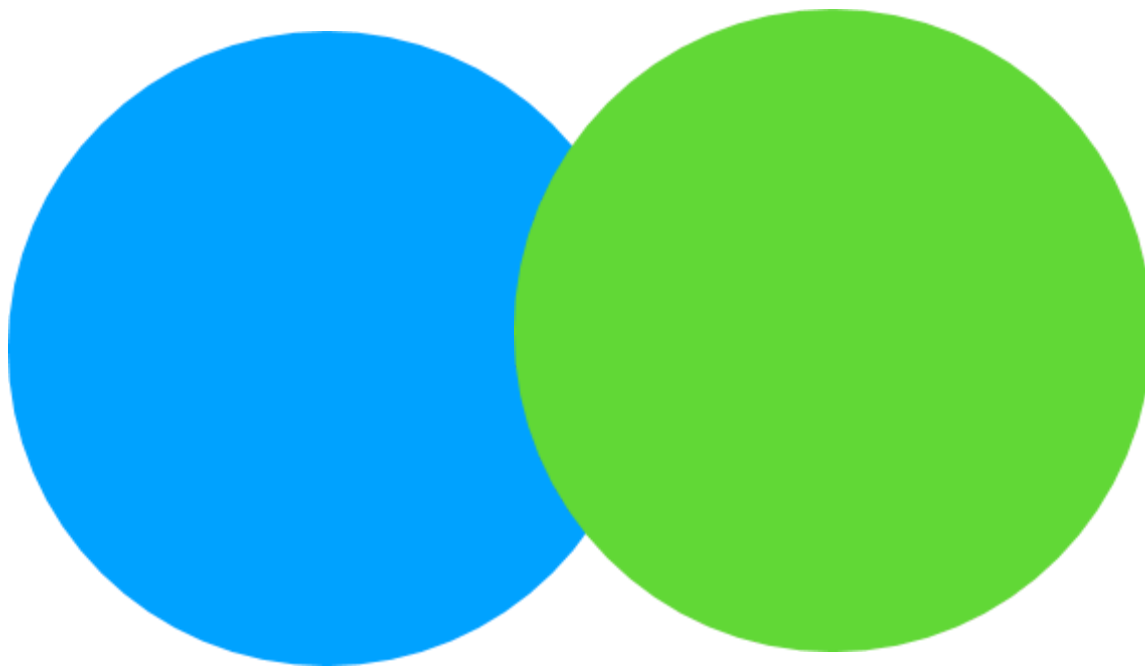


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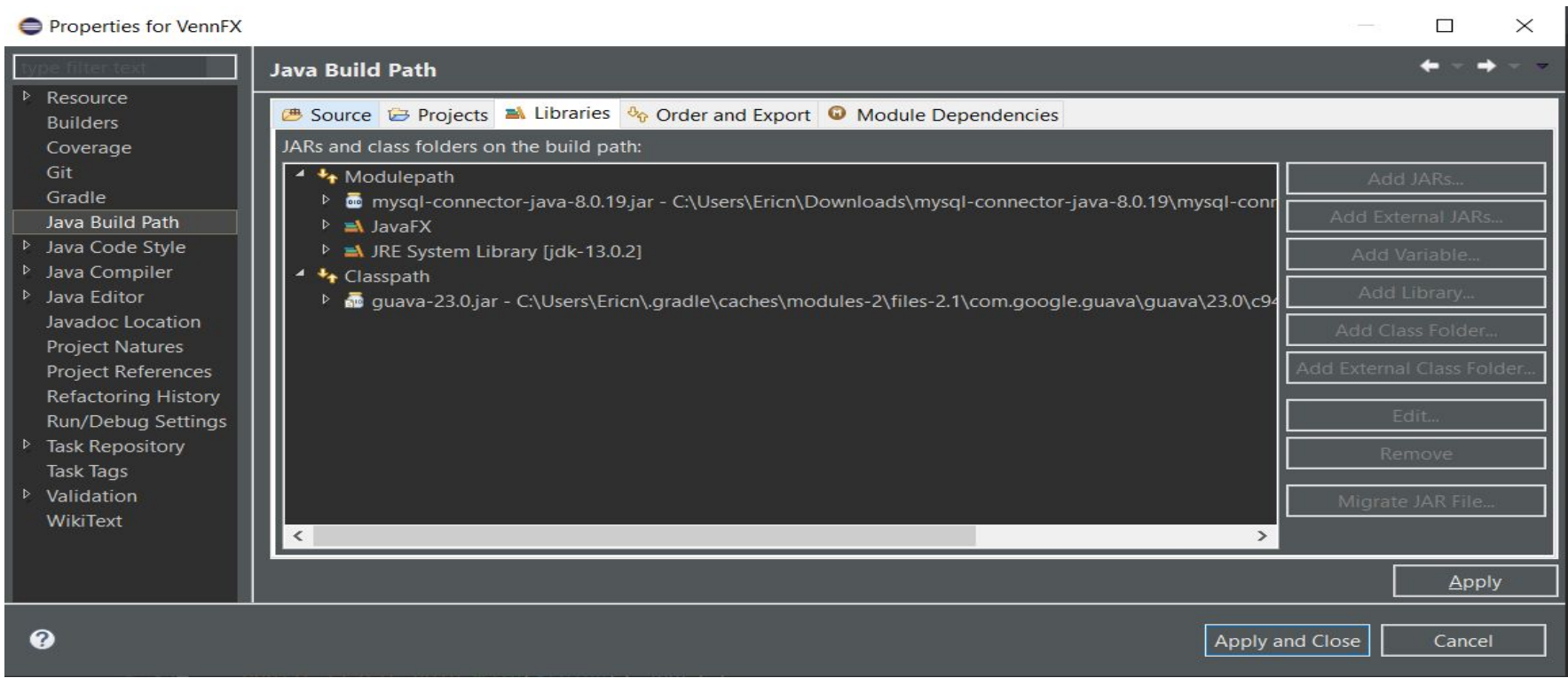
1. INTRODUCTION

This is the user manual of venn diagram, we will introduce our venn diagram software, including working principles, interface introduction and instructions. The venn diagram is a very practical diagram that allows us to clearly understand the differences and intersections between the two categories, and often helps us solve many problems in life. Our original intention is also the same, use this software to help more people.

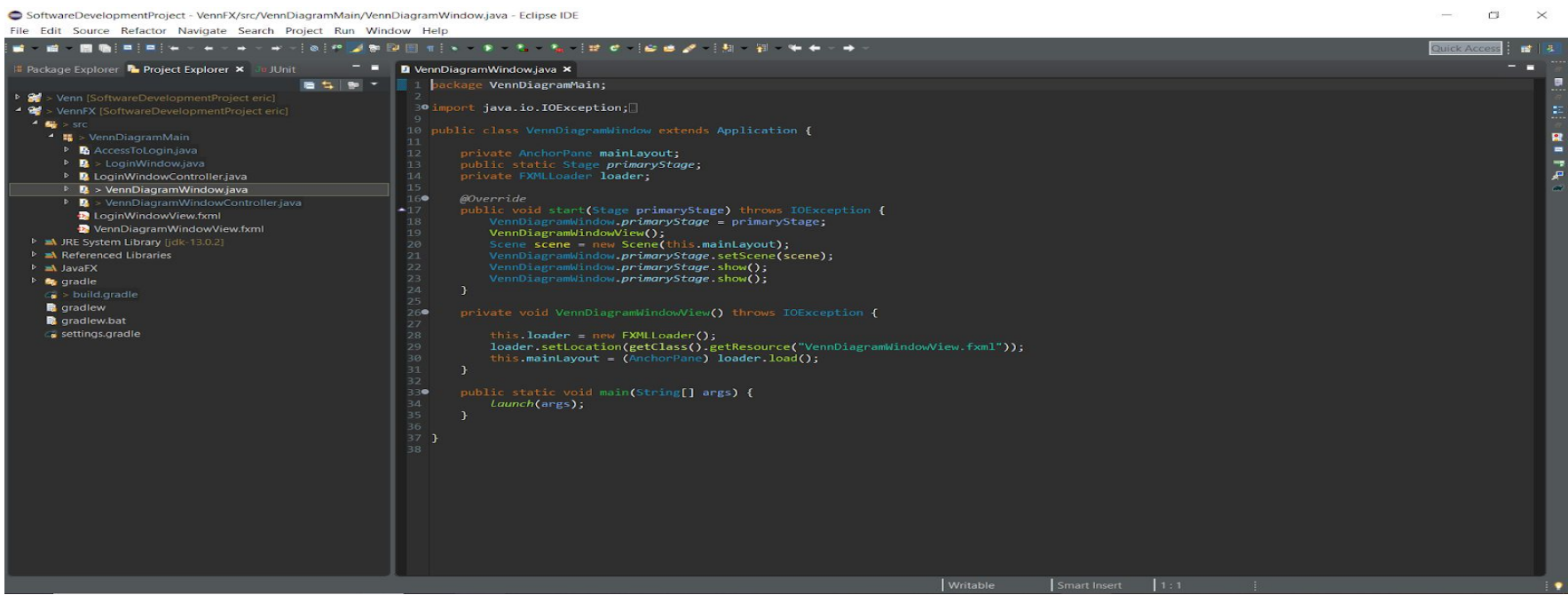


2. WORKING PRINCIPLES

This software is edited based on JRE (Java SE Runtime Environment 13), the UI style uses javafx for processing, and all coding is done on a very professionally software called eclipse.



JRE (Java SE Runtime Environment 13)



Eclipse Base On JavaFx Coding

The overall focus is simplicity, which is more convenient for new users. The sign in the registration interface at the beginning uses a database. This database runs independently, and users do not have to worry about their privacy being leaked. The sign in and registration systems also ensure that different users can have completely personal venn diagrams and can meet various needs.

3. INSTRUCTIONS FOR USE

3.0 DEPLOYMENT

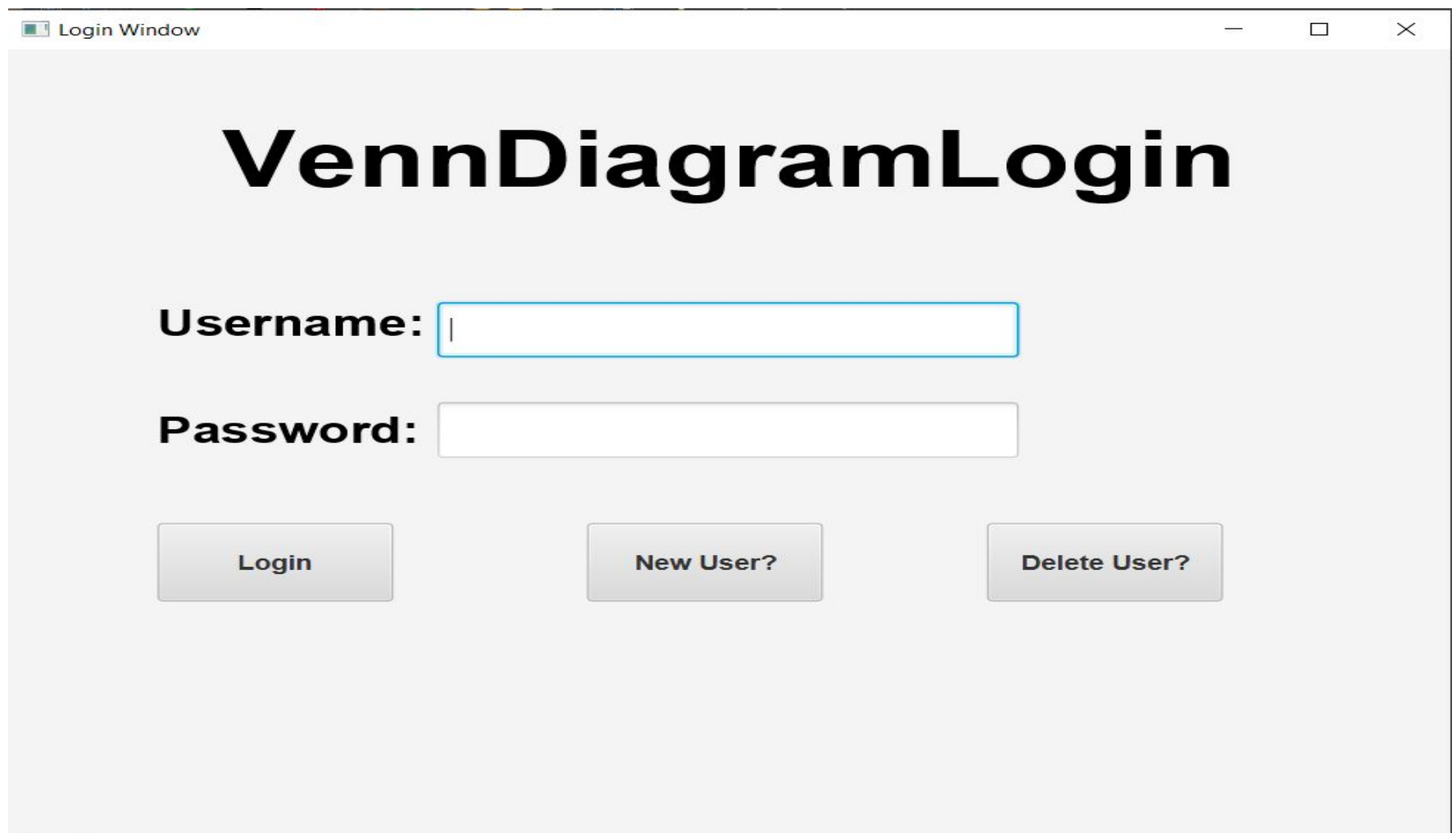
1. Find deploy JAR file, usually found in /releases/ sub-directory
2. Double click on JAR file or run from command line using:
“java -jar deploy.jar”

***PLEASE ENSURE YOU HAVE JAVA SE 13 AS YOUR MAIN INSTALLATION AND ADDED TO YOUR PATH**

3.1 LOGIN PAGE

The window should be look like this:

This is the login interface for users to log in or new users to register. In the upper right corner there are options to minimize, full screen and close options.

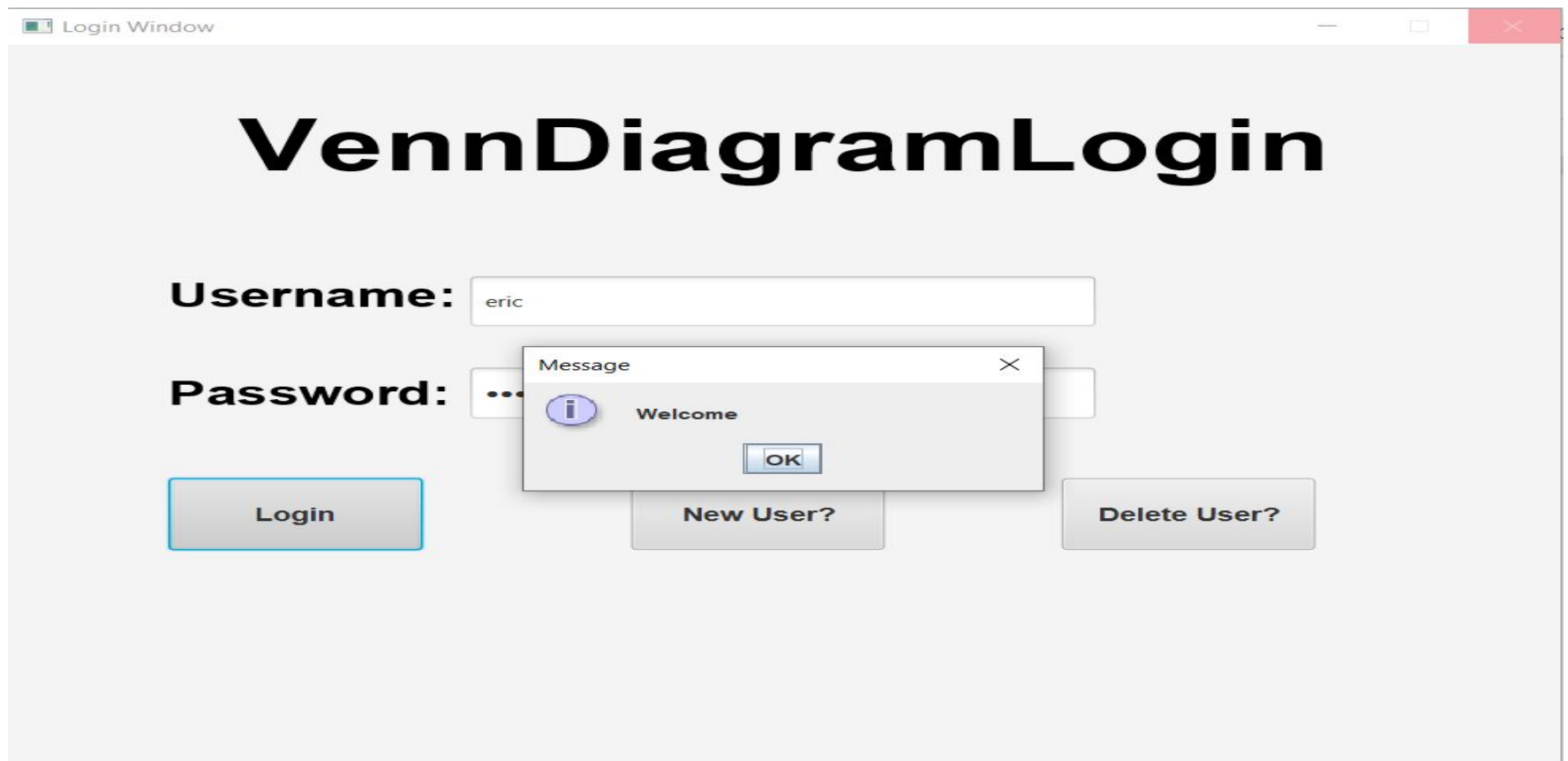


The screenshot shows a Java Swing window titled "Login Window". The window has a light gray background. At the top, there is a title bar with standard window controls (minimize, maximize, close). The main content area features the title "VennDiagramLogin" in a large, bold, black font. Below the title, there are two input fields: "Username:" and "Password:". The "Username:" field has a blue border, and the "Password:" field has a gray border. At the bottom of the window, there are three buttons: "Login", "New User?", and "Delete User?". The buttons are gray with black text.

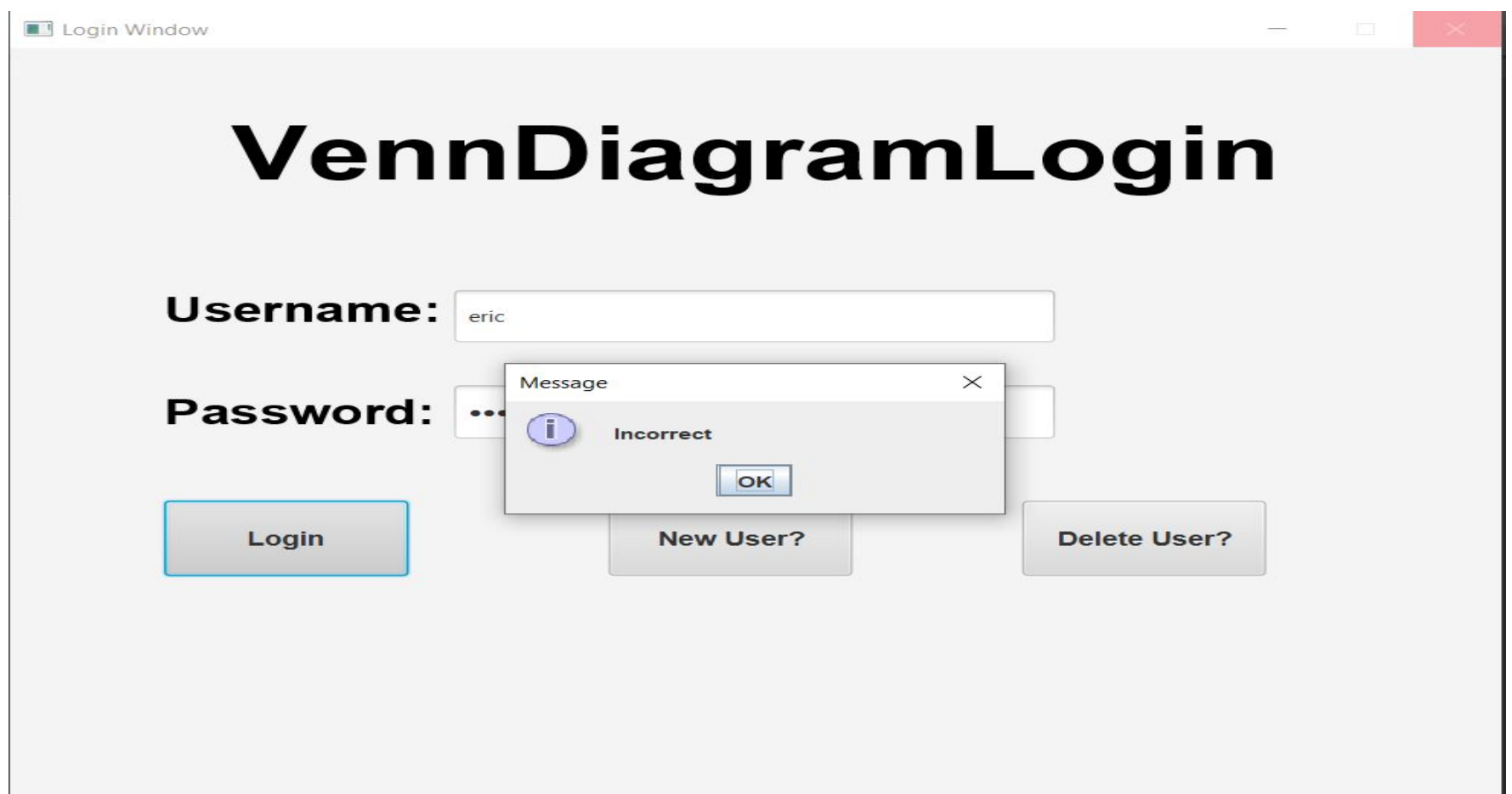
Login Window

3.1.1 Login Button

- **Login:** This is for already registered users to enter the venn diagram. When the user logs in, the program will automatically call the user's last record from the database. When the user inputs invalid login credentials the program denies access.



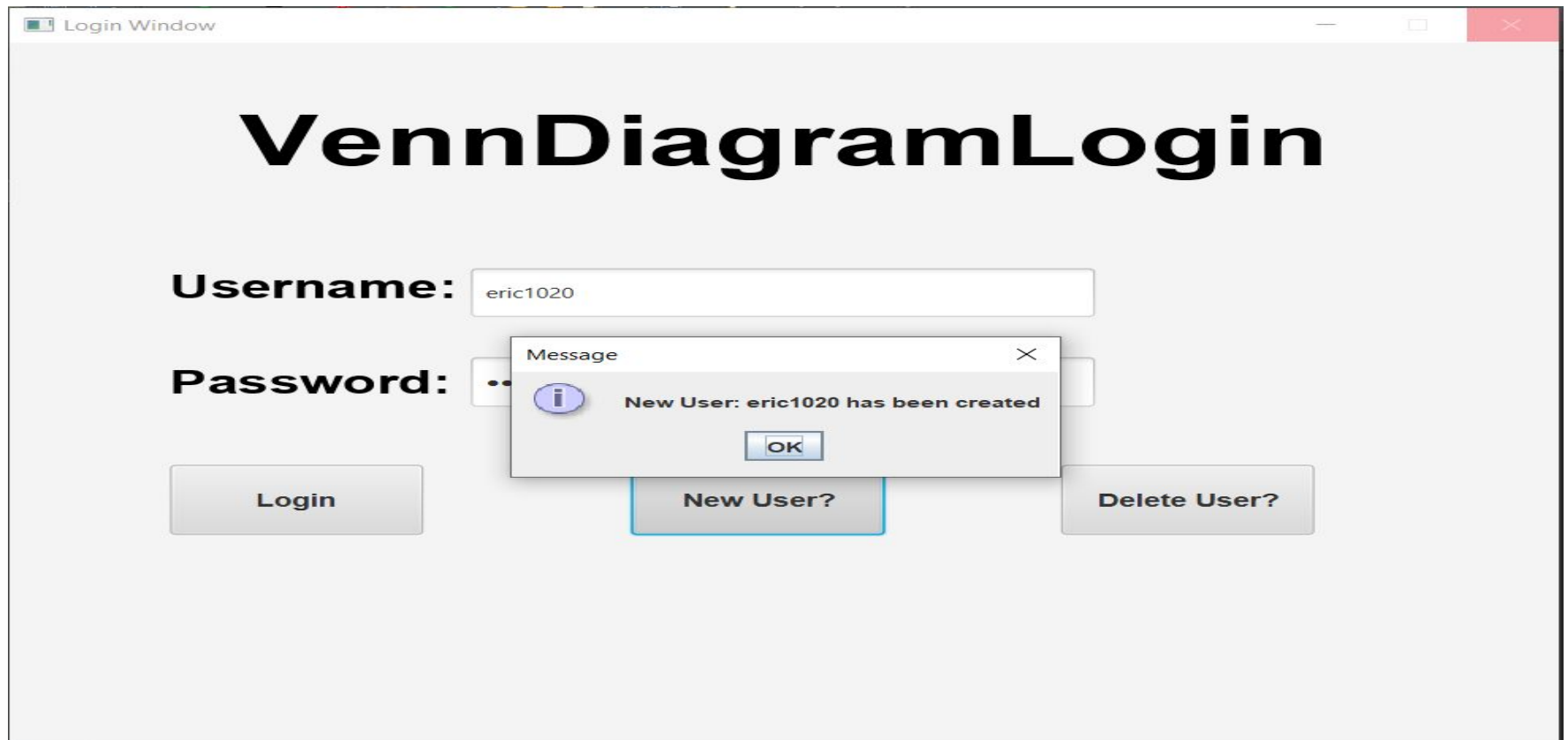
Login Function



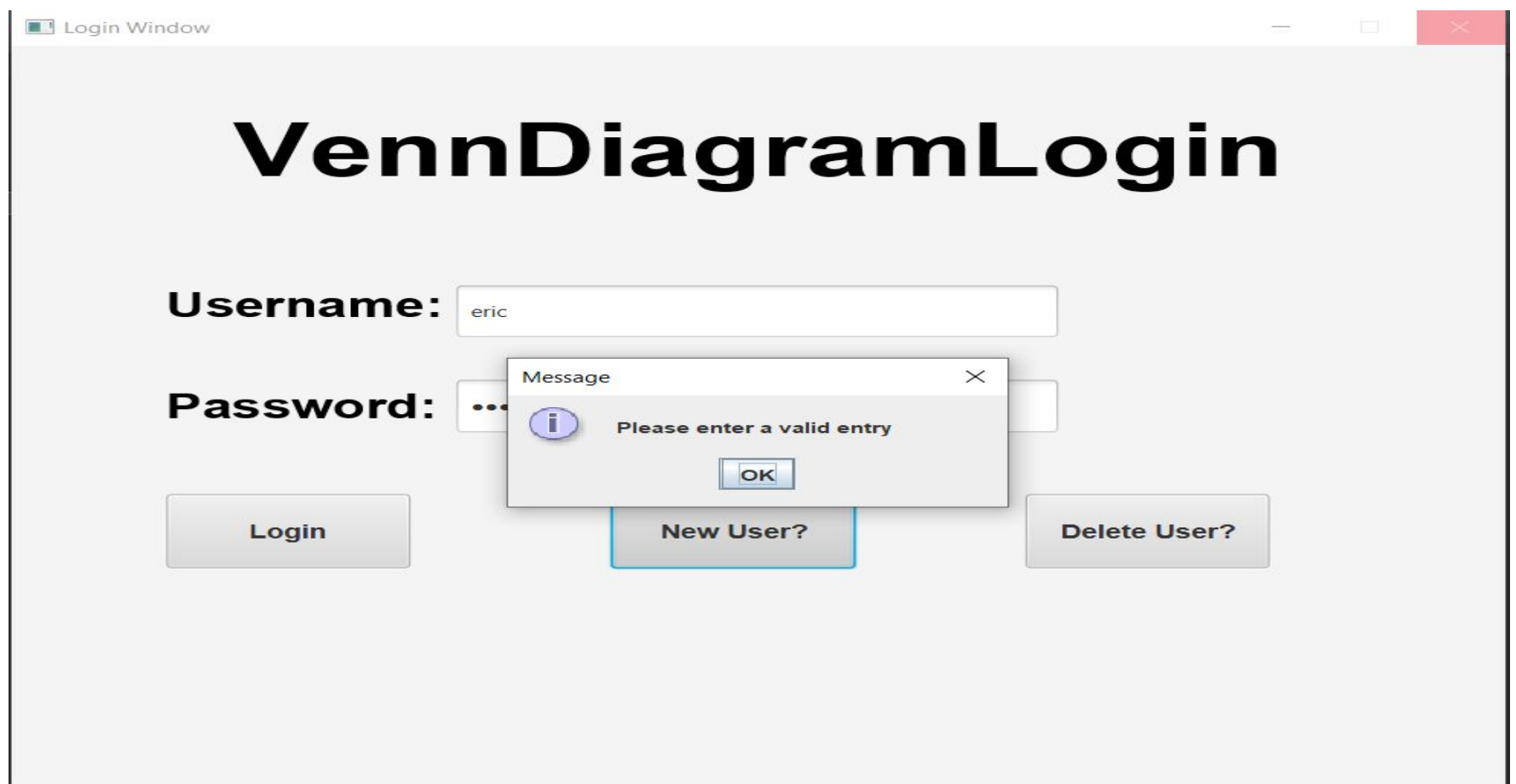
Incorrect Login Function

3.1.2 New User Button

- **New User:** This is for new users. When pressed, a new window will pop up. After entering the username and password, the background program will create a new account in the database to store all edited things for the user to call next time. This will lead the user to the Venn Diagram Window. If the username already exists an error will be shown.



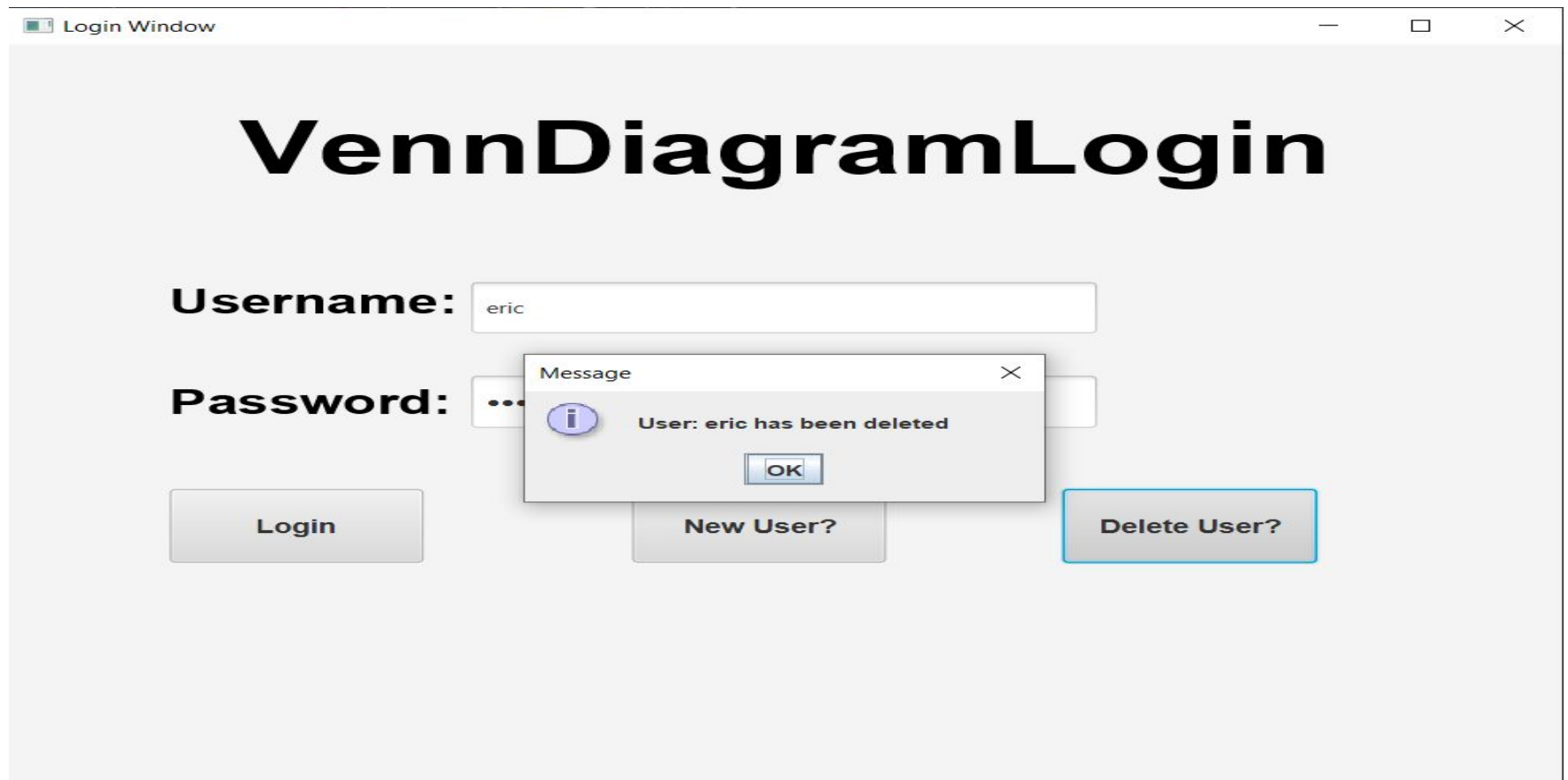
New User Function



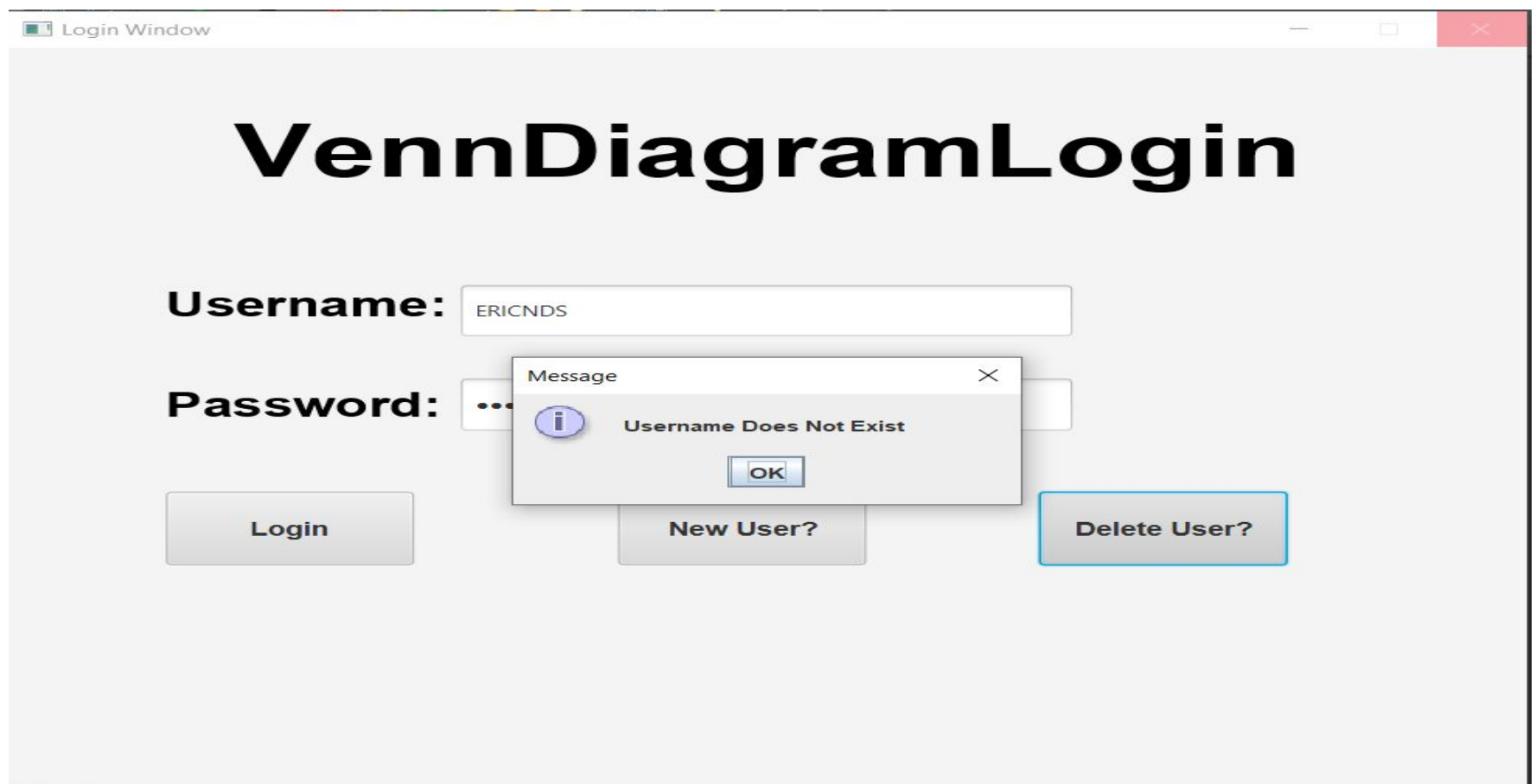
Invalid Entry Function

3.1.3 Delete User Button

- **Delete User:** Delete user is used to delete the previous account when the user does not want to use the previous user name. If the username doesn't exist or the password is incorrect an invalid entry will be shown.



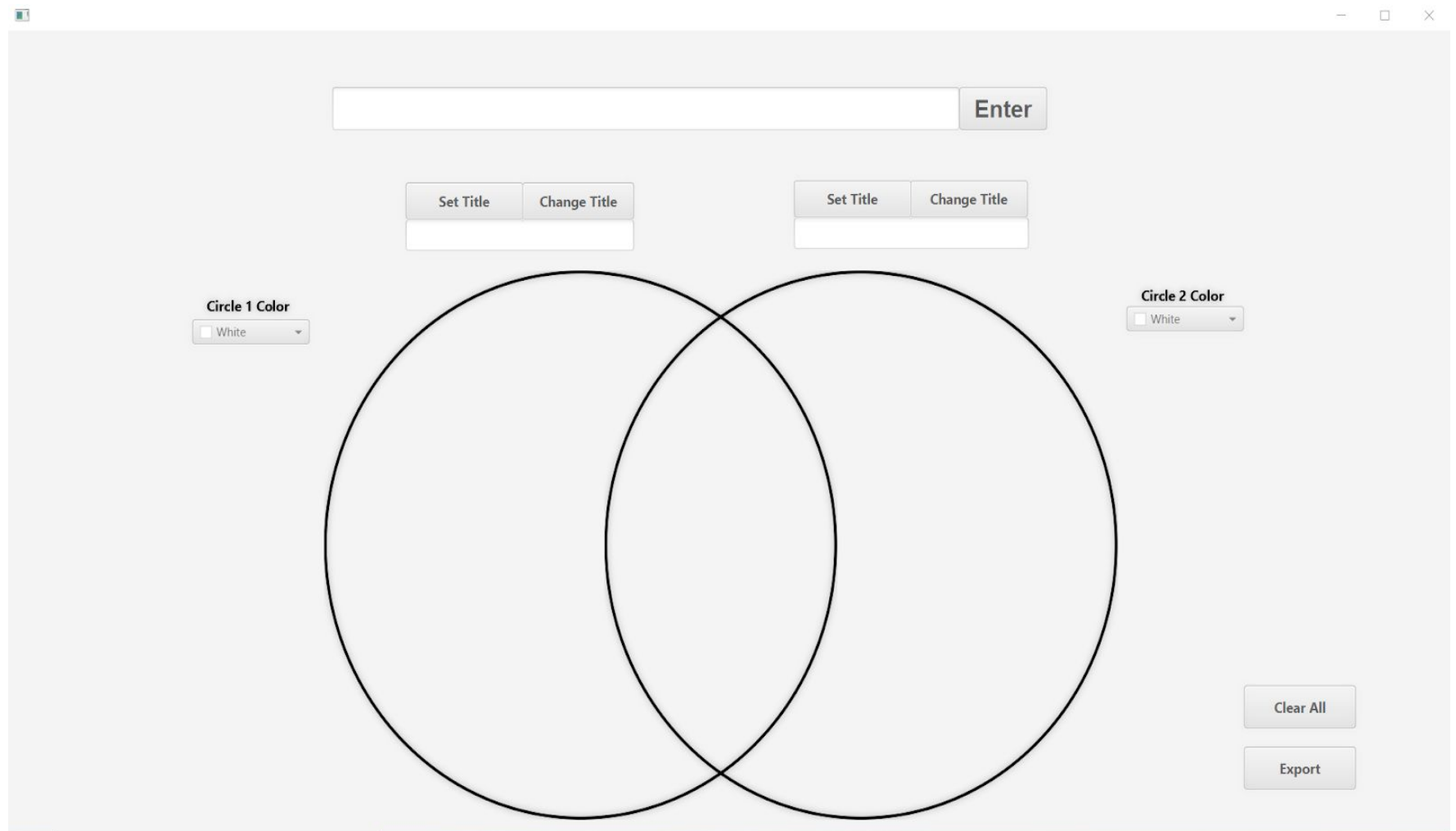
Delete User Function



Invaিদ Entry Function

3.2 VENN DIAGRAM

After the user completes the login or registration, the official Venn diagram window should pop up, it will look like this :

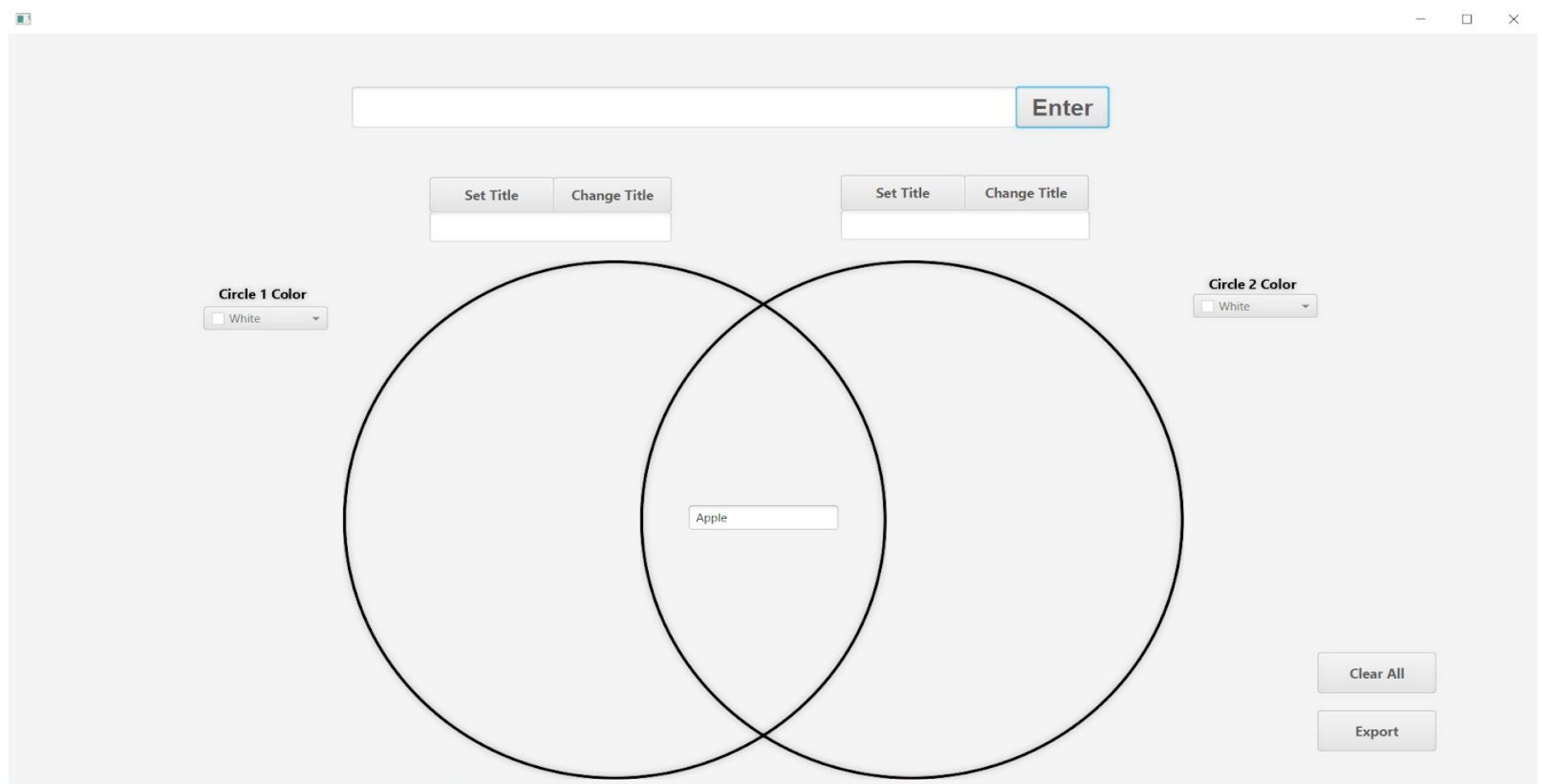
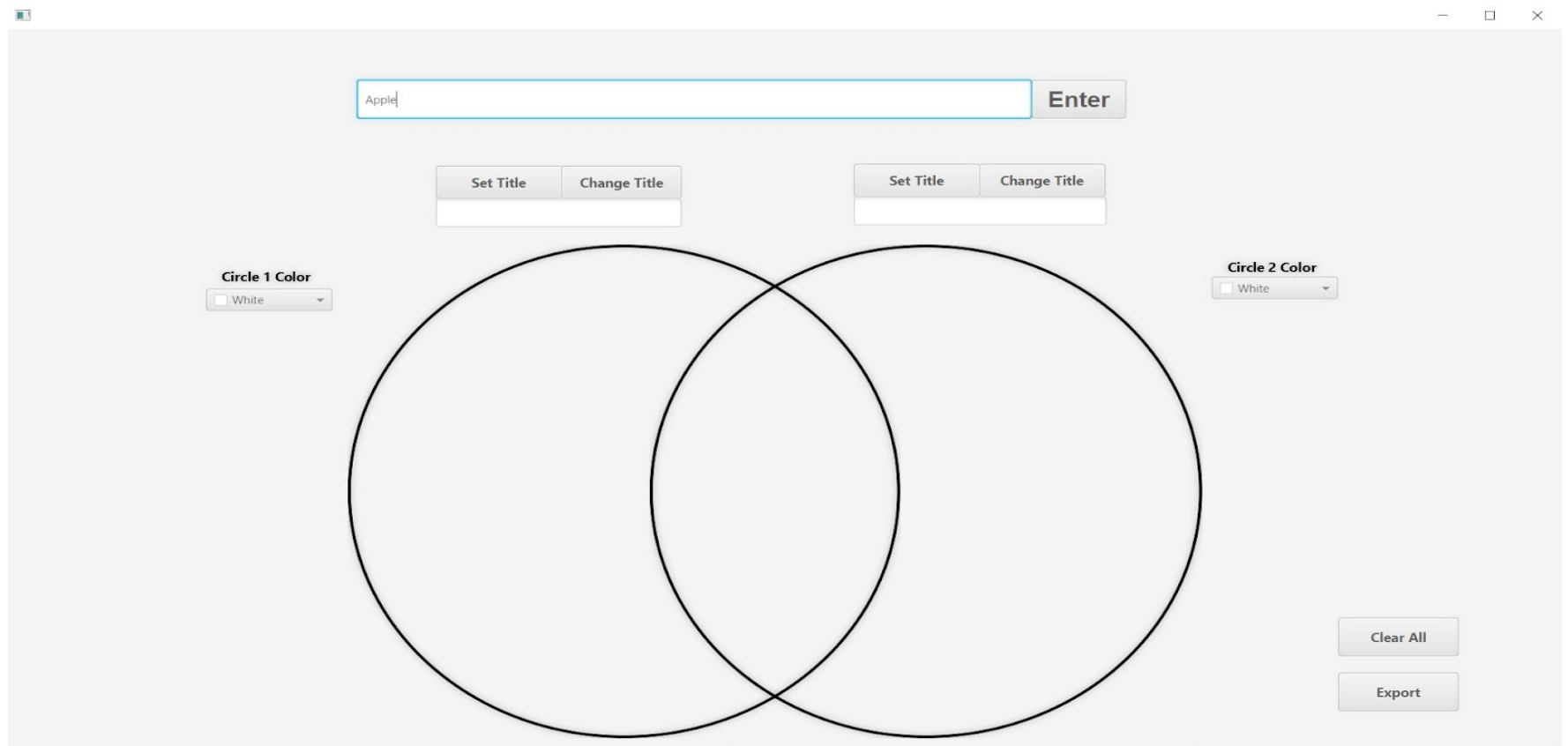


Venn Diagram Window

3.2.1 Entry Button

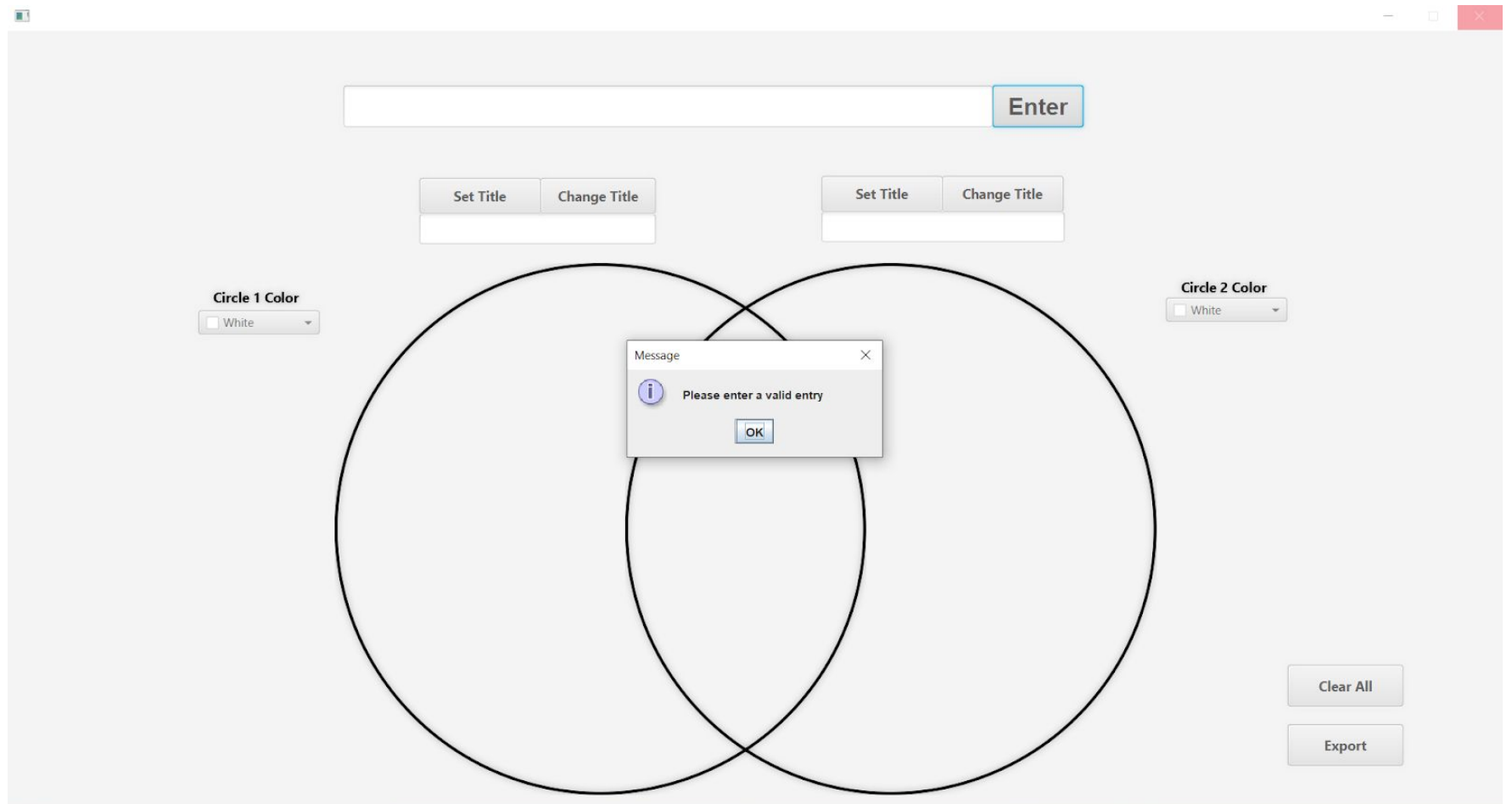
Then let's step through to understand the function of the Entry Button:

- **Top box with enter:** In this area, users can type in the content they want, which is completely customizable. Then, press "enter" after entering the content, a new entry will be generated.



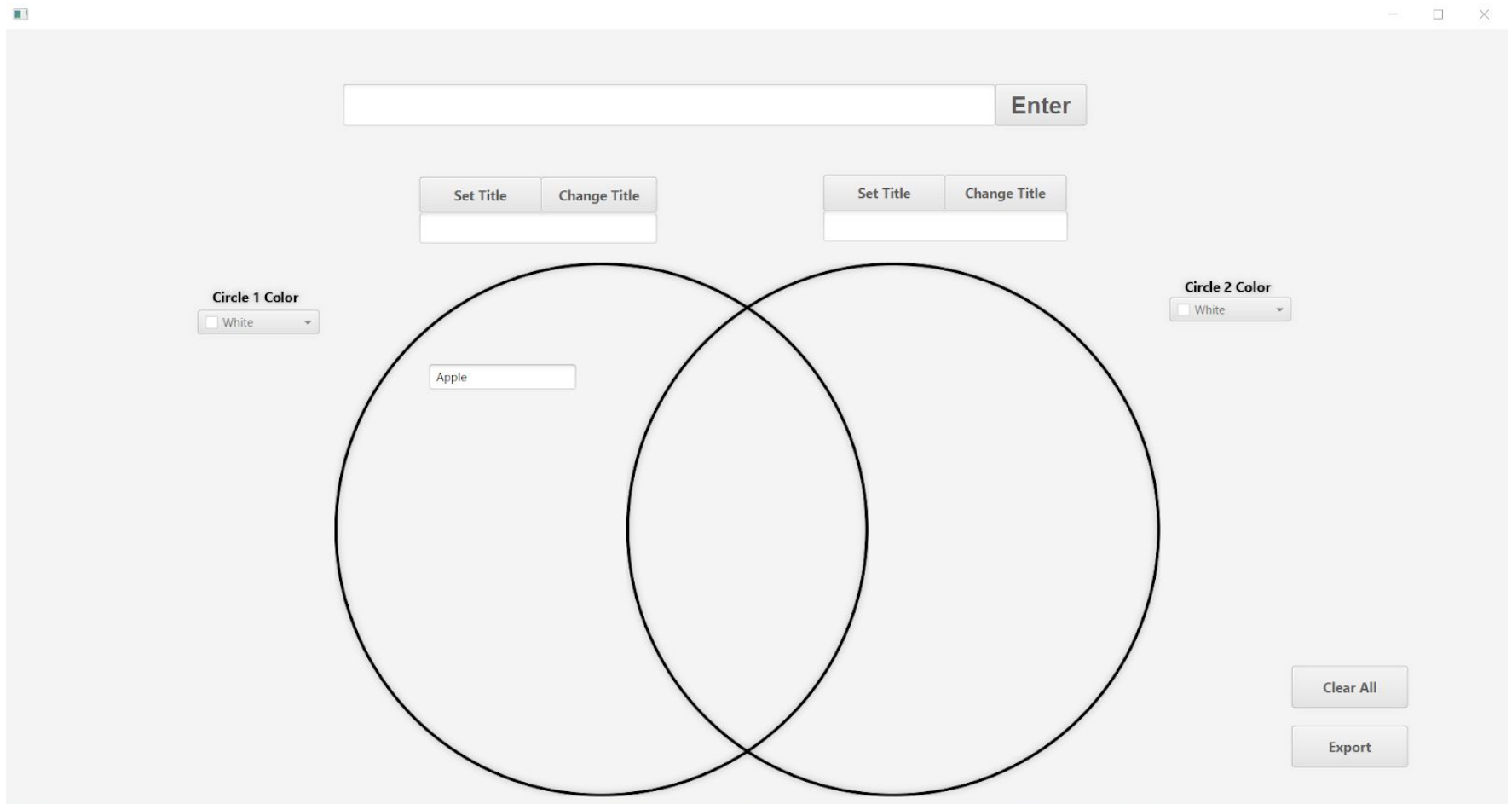
Valid Entry

- **Invalid Entries:** On the entry area entries that are invalid will not be accepted into the system and the entry will be cleared. Our criteria for an invalid entry consists of
 - **1) Empty Text**

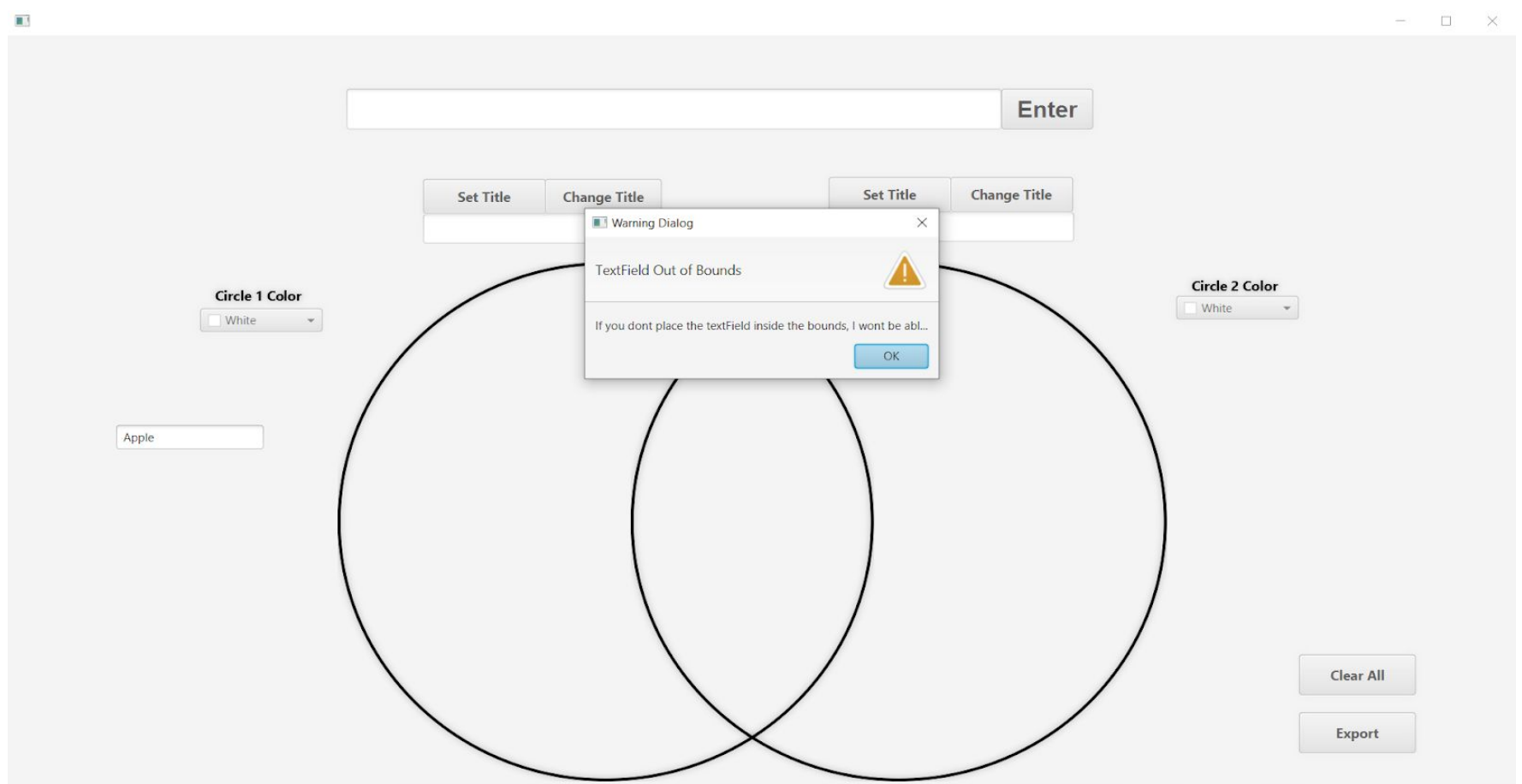


Invalid Entry Function

- **Drag And Drop Functionality:** Our software includes drag and drop functions, so these entries can be dragged as clients willing. The user moves the mouse over the entry and presses the left button, and the entry will follow the mouse movement. Our Program will then recognize what side the entry is on based on where you drag it and will give you a warning if it does not recognize where in the screen you placed it. (Ex: Outside the circle)



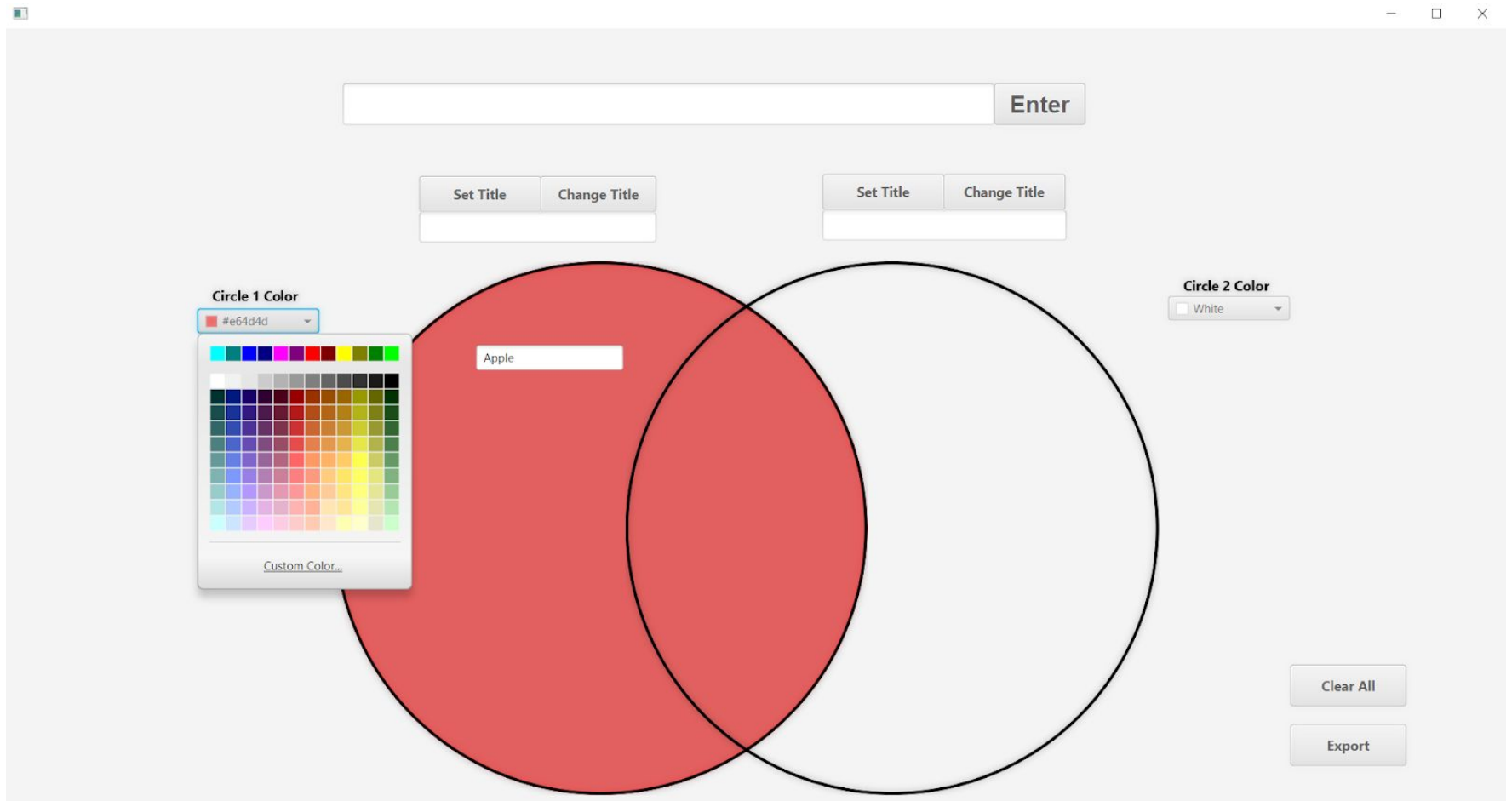
Dragging Entry to Side



Warning When Dragging Outside

3.2.2 Color Button

- **Set Color:** This function allows the user to choose from any color to mix and match any combination of colors within the two circles as they like. They can also remove the colors by making it transparent again.



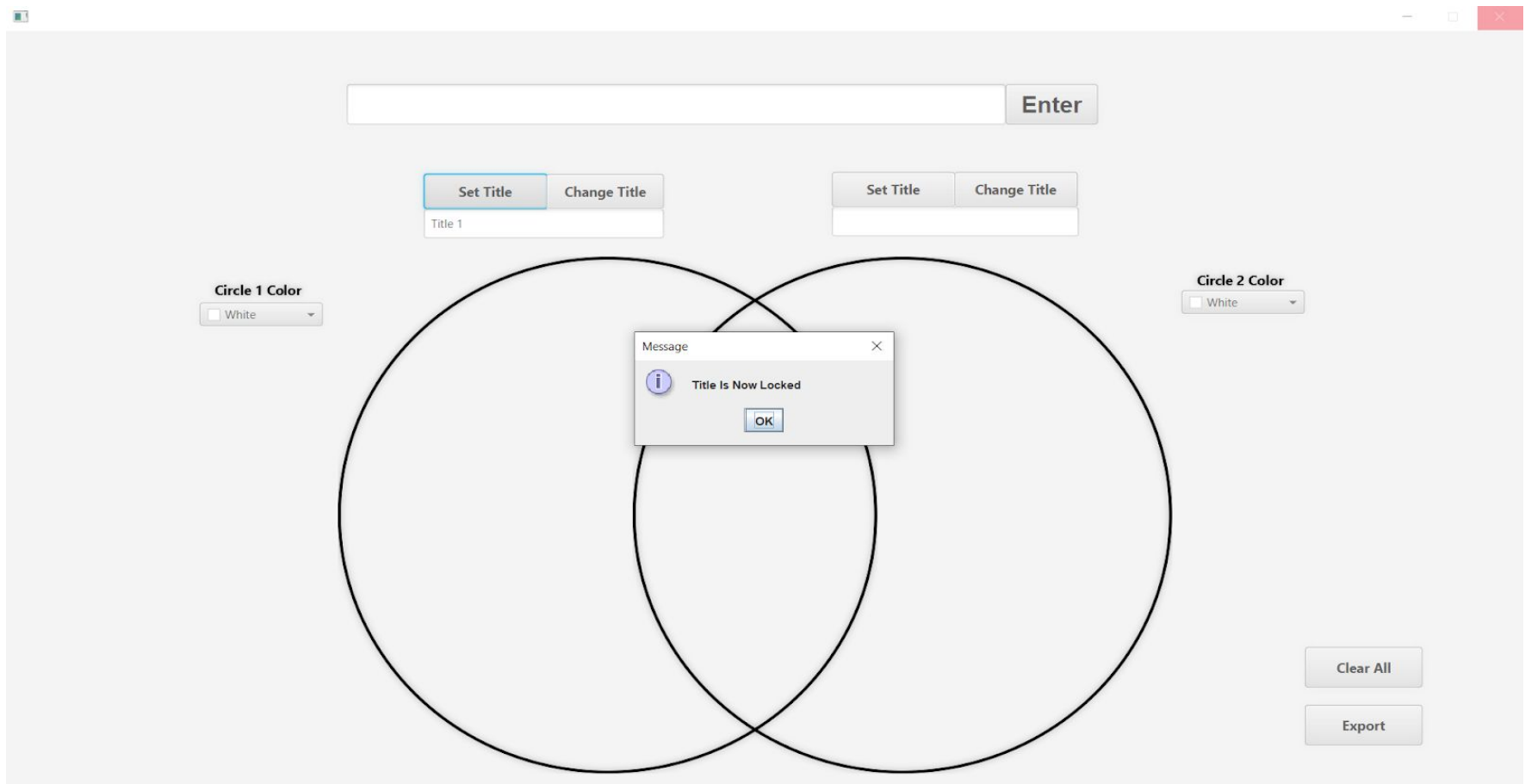
Set Color On Left Circle



Set Color On Right Circle

3.2.3 Set Title Button

- **Set title:** This section allows users to customize the title name of the venn diagram category. The user can enter the content in the box first, and then click "set title" with the mouse, and then the custom title is set. There are no word restrictions to the title. The title cannot be changed once set. The system will tell you that your title is now locked. If the user has no title yet and presses this button, it will tell the user that there already is no title to change.



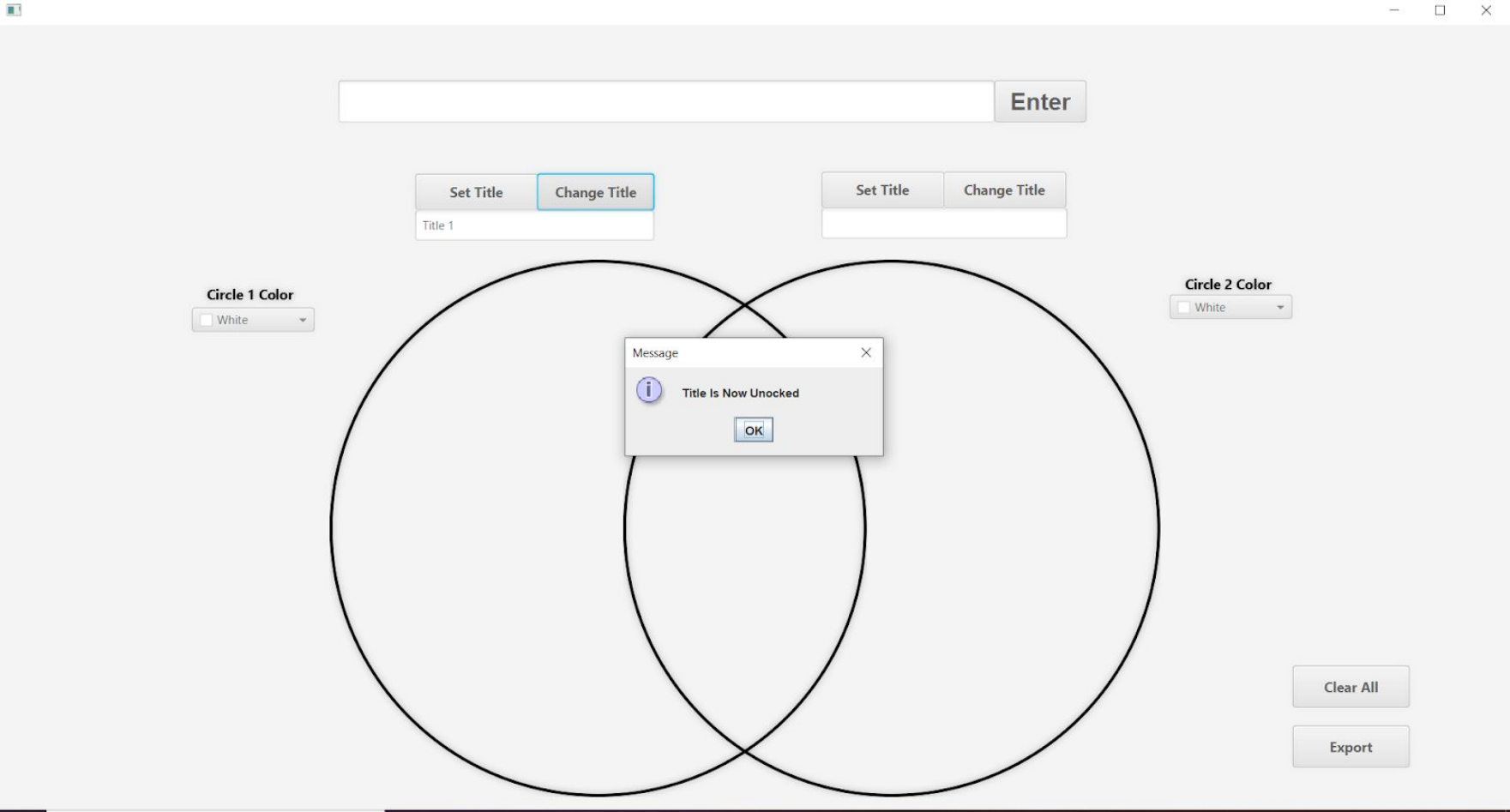
Set Title Function



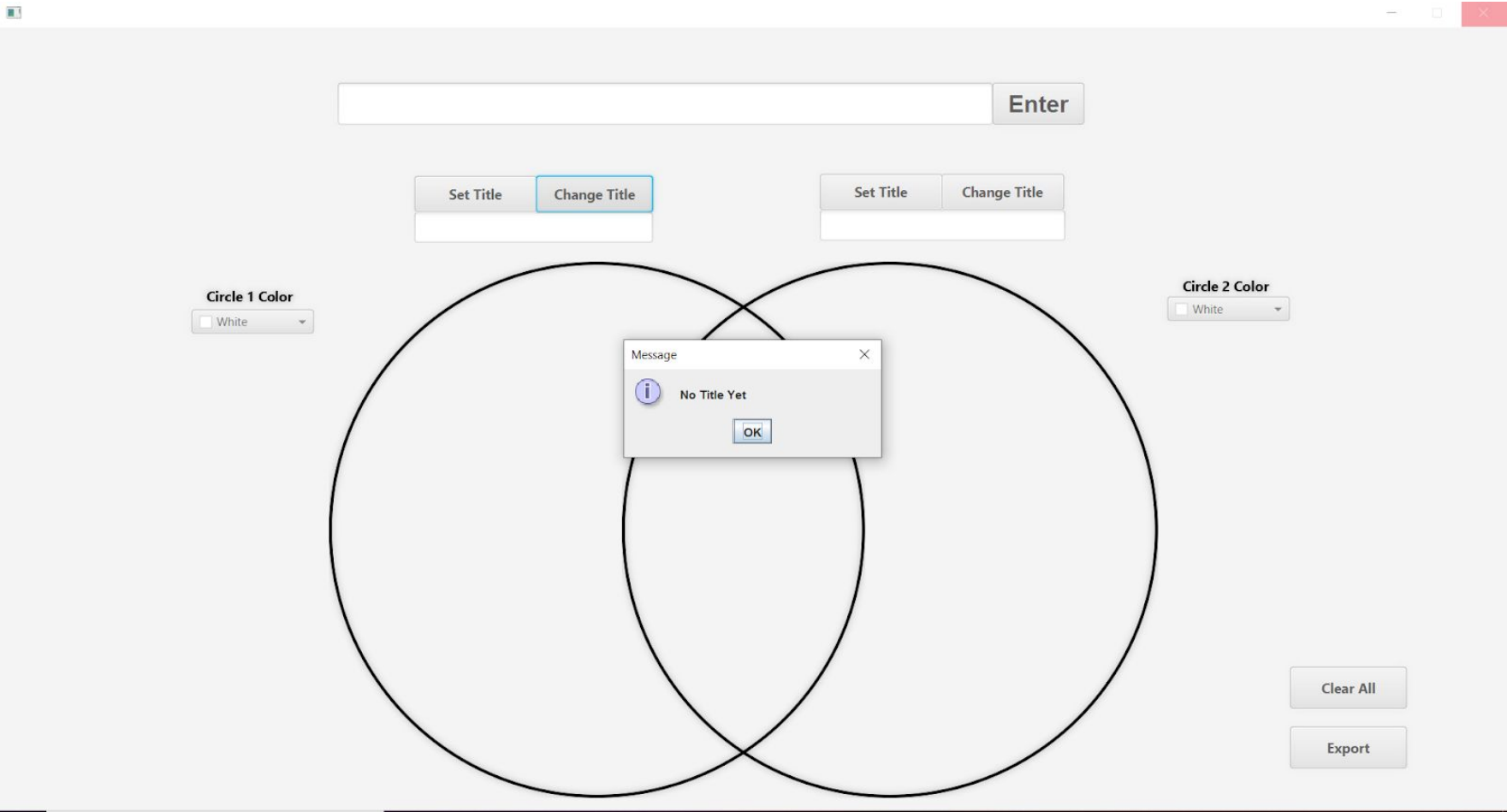
Title are no existing titles

3.2.4 Change Title Button

- **Change Title:** This Button allows users to unlock their title and adjust it to a new one that they prefer. The System will tell the user that the title is now unlocked and can be changed. If the user has no title yet and presses this button, it will tell the user that there already is no title to change.



Title is now unlocked



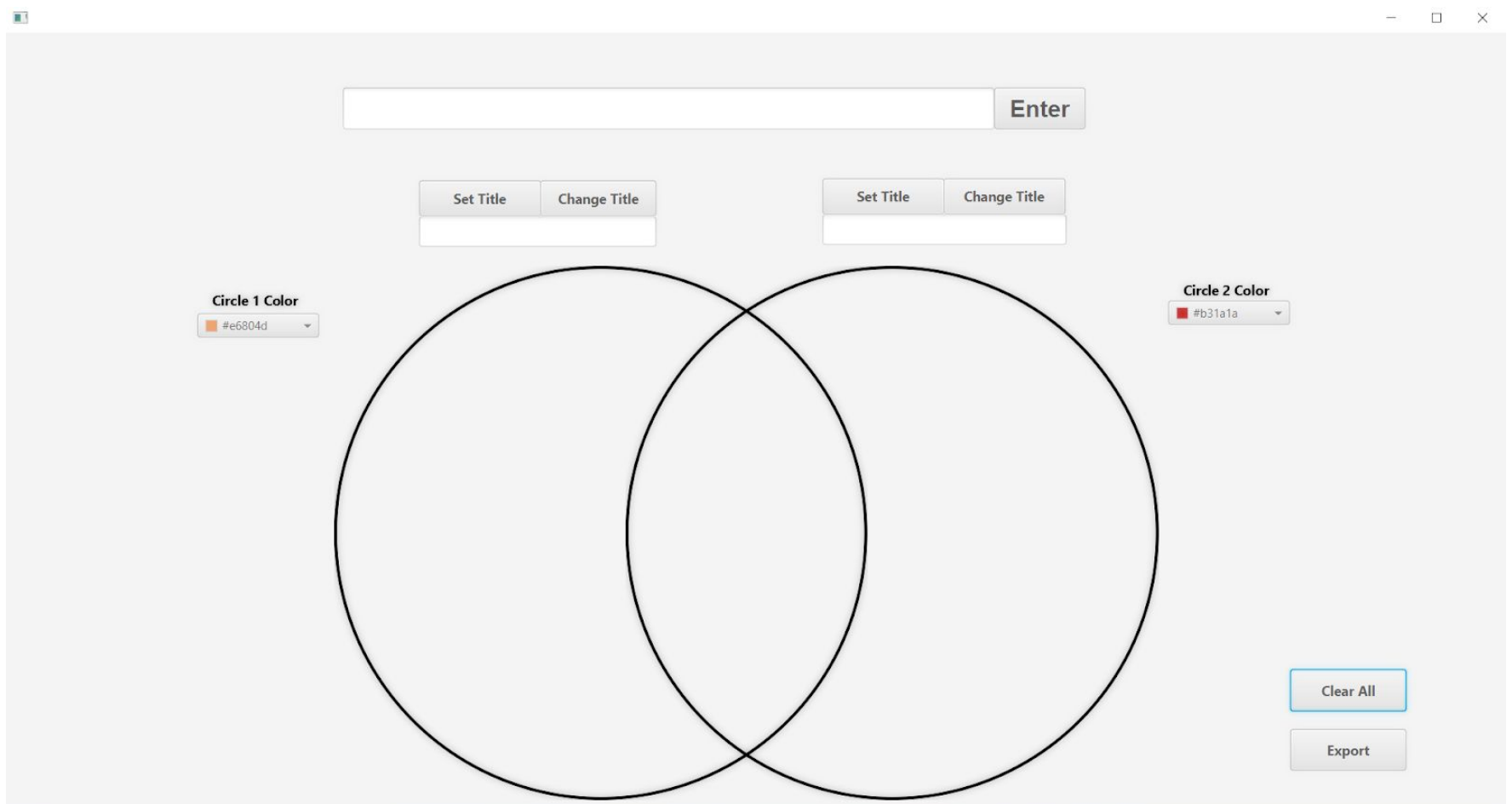
There are no existing titles

3.2.5 Clear All Button

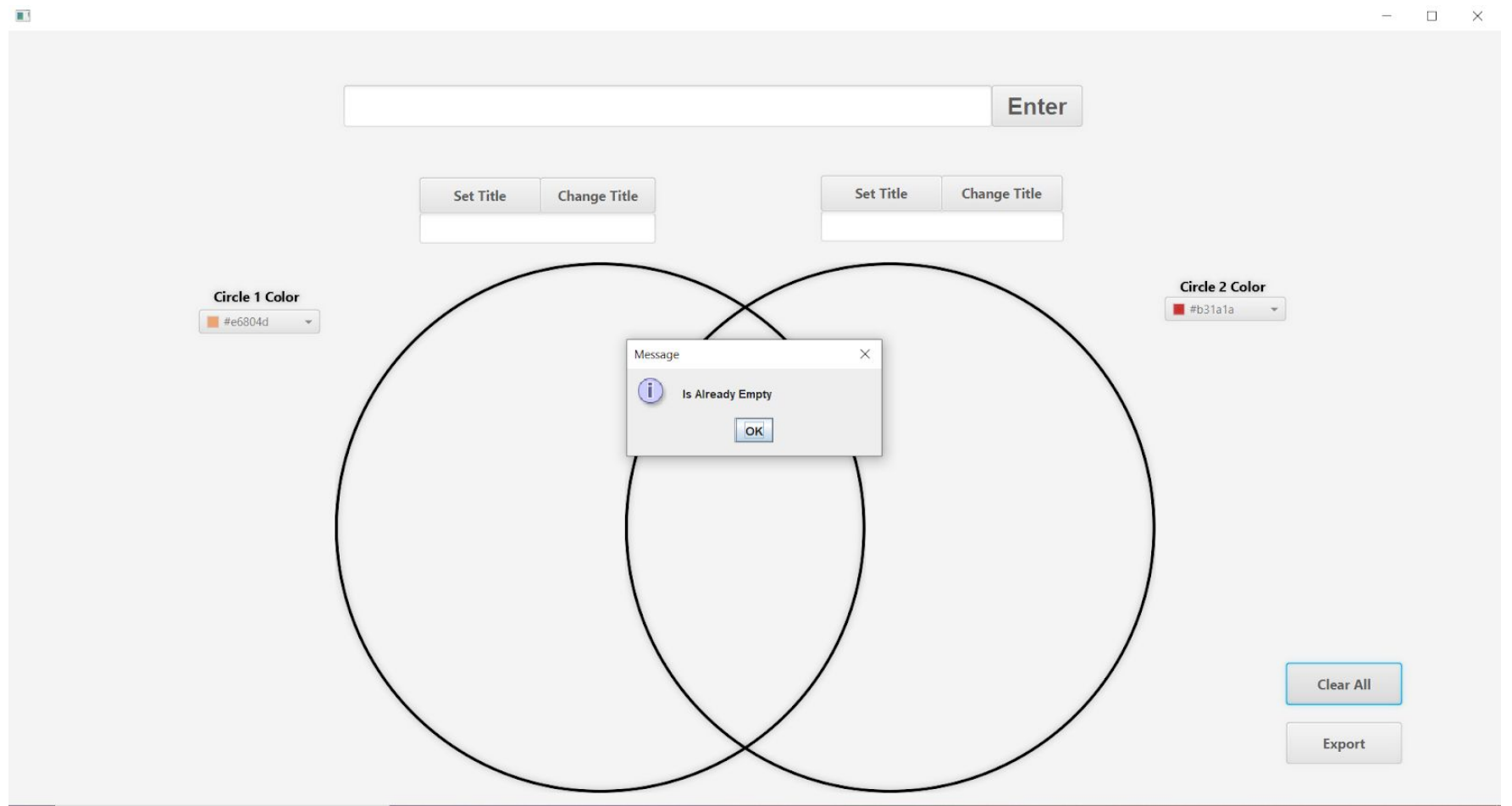
- **Clear All:** Using this function will remove all entries existing in your session, remove all colors from the circles, and remove all existing titles out. Basically everything that was adjusted by you will be reset and you can then start from scratch. If there is nothing to reset it will tell the user that there is nothing at this point.



A Session filled with different entries



After Using the clear all button



There are no entries in the system to clear

3.2.6 Export Button

- **Export:** This function will save your entries to a xlsx file in your program folder called “Results.xlsx” and it will display these results based on where the entries are on the venn diagram. The entries will be recognized based on what side of the venn diagram they currently are on and the titles will be saved based on if they were set or not (If not a default title will be on the Xlsx file. Once the user presses the button it will tell the user that all the entries were saved and if the user has no entries it will tell the user that there are no entries to be saved. The user can then come back to their results on the excel sheet whenever they need it.

The screenshot shows a Venn diagram interface with two overlapping circles. The left circle is labeled 'Fruits' and the right circle is labeled 'Vegetables'. The intersection contains 'Tomato'. The left circle also contains 'Apple', 'Orange', and 'Banana'. The right circle also contains 'Eggplant', 'Celery', and 'Potato'. The 'Potato' entry is highlighted with a blue border. Above the circles are two sets of controls: 'Set Title' and 'Change Title' buttons for each circle, and a color selector for each circle (currently set to 'White'). At the bottom right are 'Clear All' and 'Export' buttons. At the top is a search bar with an 'Enter' button.

Current User Session With entries

This screenshot is identical to the previous one, but with a 'Message' dialog box overlaid in the center. The dialog box has a title bar 'Message' and a close button 'X'. It contains an information icon, the text 'Entries Saved!', and an 'OK' button. The 'Export' button at the bottom right is now highlighted with a blue border.

Entries are now saved

AutoSave Off Results - Excel Search

File Home Insert Page Layout Formulas Data Review View Help

Paste Cut Copy Format Painter

Clipboard

Calibri 11 A A

Font

Wrap Text Merge & Center

Alignment

A1 Fruits

	A	B	C	D	E	F	G	H	I	J
1	Fruits	Vegetables	Middle							
2	Apple	Eggplant	Tomato							
3	Orange	Celery								
4	Banana	Potato								
5										
6										
7										
8										
9										
10										
11										
12										

Results from session are shown on Xlsx File

Enter

Set Title Change Title Set Title Change Title

Circle 1 Color White Circle 2 Color White

Message No Entries Stored OK

Clear All Export

User has no entries to save

4 APPLICATIONS

Some uses of this Venn diagram software are:

- Visualize information to compare
- Making decisions
- For brainstorming ideas
- Used to visualize statistics

4.1 SAFETY WARNING








Information for a session will not be saved when closing in this version. (If you want to keep your data use the submit button)

4.2 DEBUG

Now we find that our software has to run under a specific operating environment, otherwise, an error will occur. This section is where we collected the error conditions from the beginning till to right now of the project to help everyone how to solve the same situation

First, our software is editing under JRE 13.0.2, if user JRE is lower than JRE 13.0.2 might cause a runtime exception called *java.lang.UnsupportedClassVersionError: Unsupported major.minor*. This error can be fixed by updating the eclipse java version.

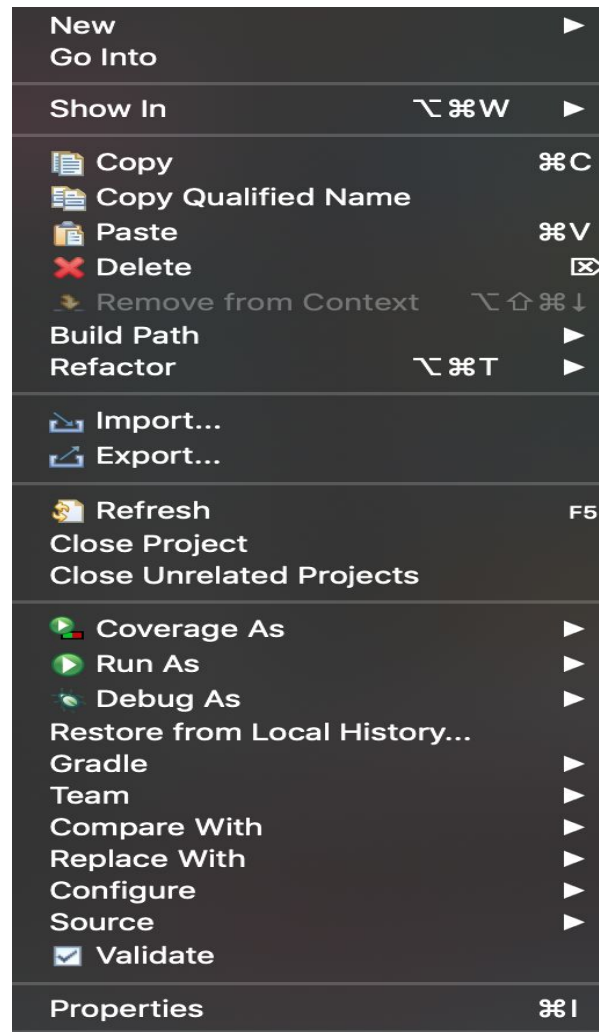
On mac: Google JRE 13 or latest version, and download the installer, then run the installer to install into your mac.

Java SE Development Kit 13.0.2		
This software is licensed under the Oracle Technology Network License Agreement for Oracle Java SE		
Product / File Description	File Size	Download
Linux Debian Package	155.72 MB	 jdk-13.0.2_linux-x64_bin.deb
Linux RPM Package	162.66 MB	 jdk-13.0.2_linux-x64_bin.rpm
Linux Compressed Archive	179.41 MB	 jdk-13.0.2_linux-x64_bin.tar.gz
macOS Installer	173.3 MB	 jdk-13.0.2_osx-x64_bin.dmg
macOS Compressed Archive	173.7 MB	 jdk-13.0.2_osx-x64_bin.tar.gz
Windows x64 Installer	159.83 MB	 jdk-13.0.2_windows-x64_bin.exe
Windows x64 Compressed Archive	178.99 MB	 jdk-13.0.2_windows-x64_bin.zip

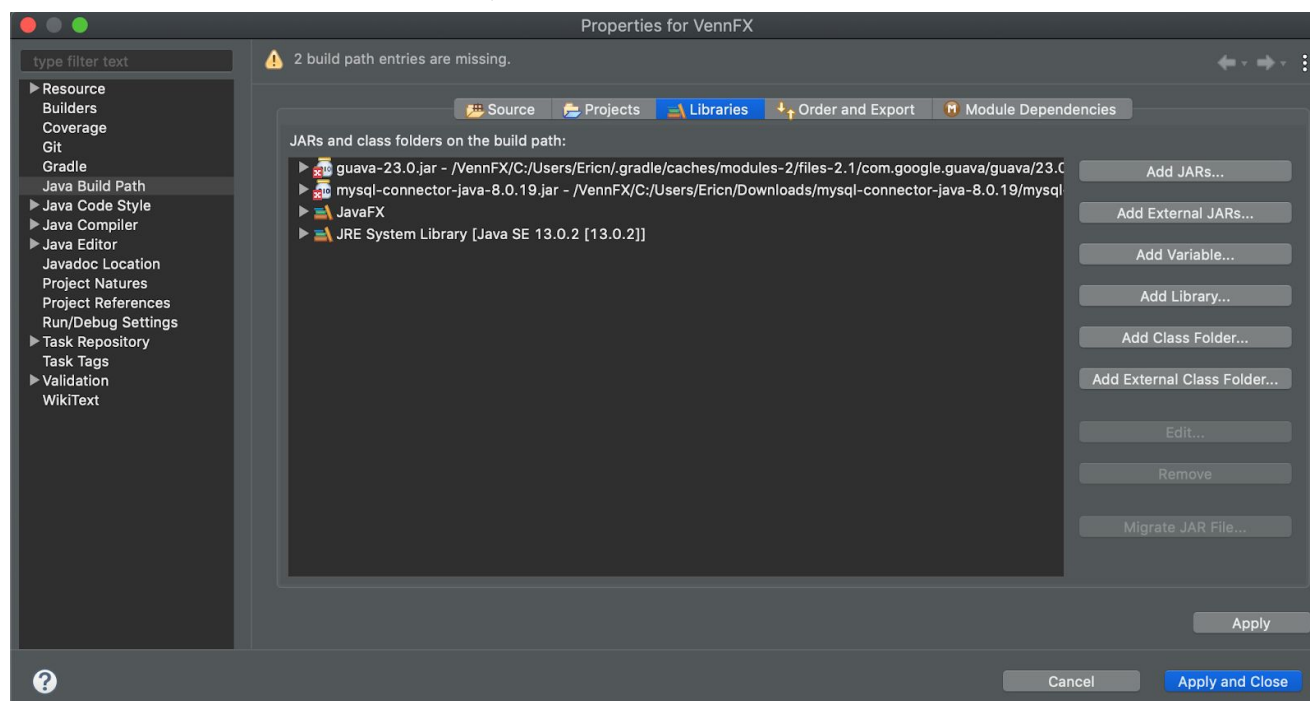
4.2.1 Version Problem

How do you set the JRE to the current latest version?

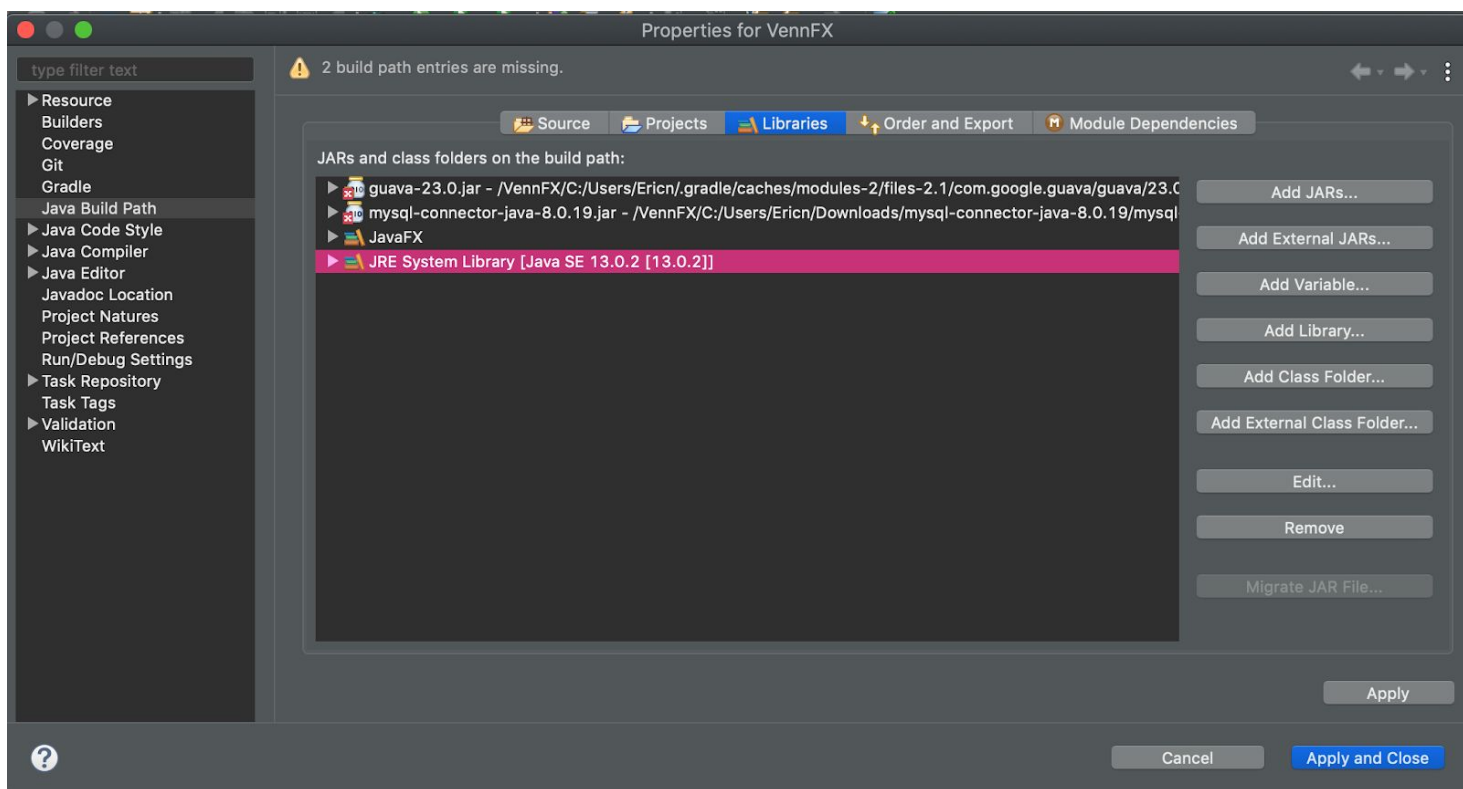
Right click the project, then a new window will pop up, and at the bottom of the new list will see one option called “properties”.



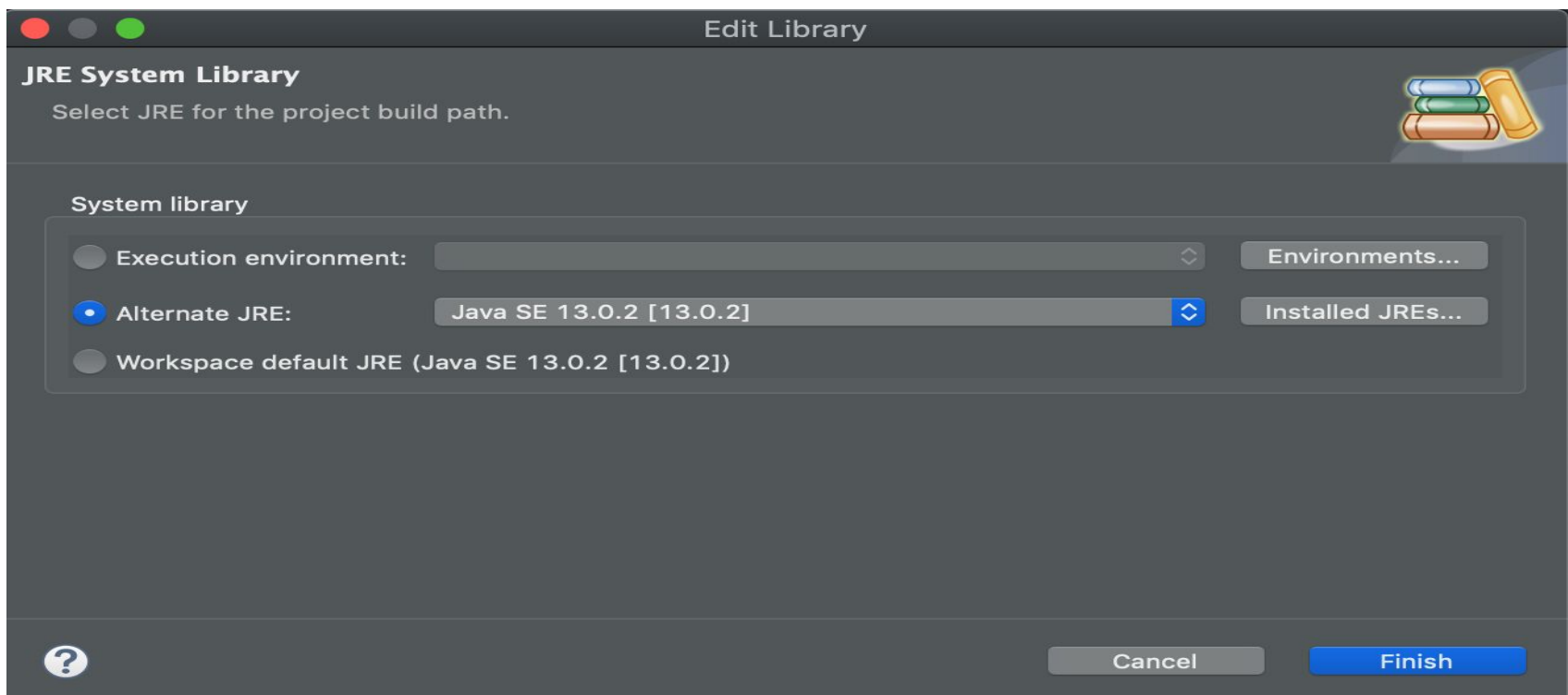
After click it, another new window will pop up, at the left side list will have a option “Java Build Path”, there will be window like this



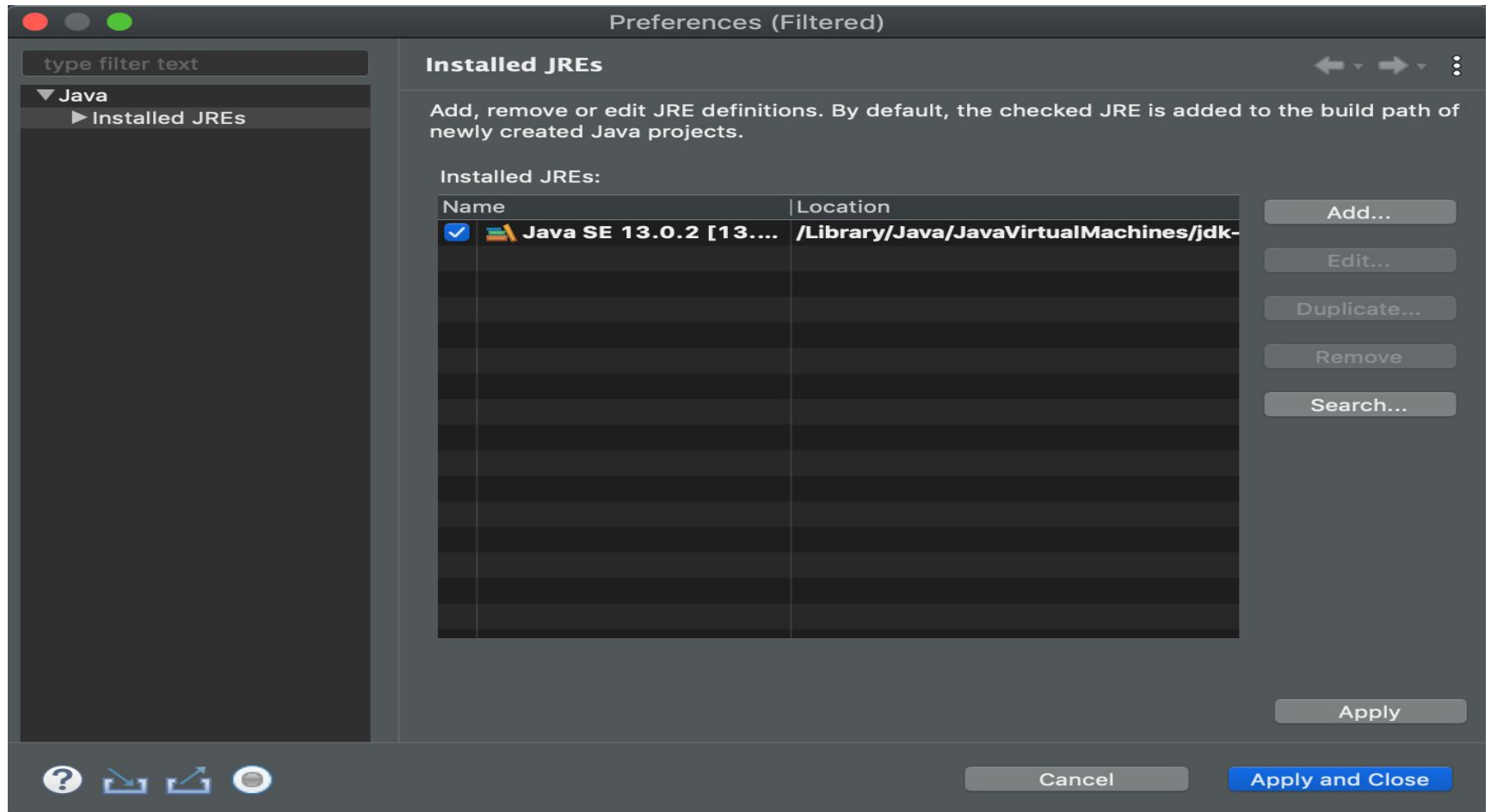
If the JRE is not Java SE 13.0.2, then highlight it and at the right list “Edit” will become available.



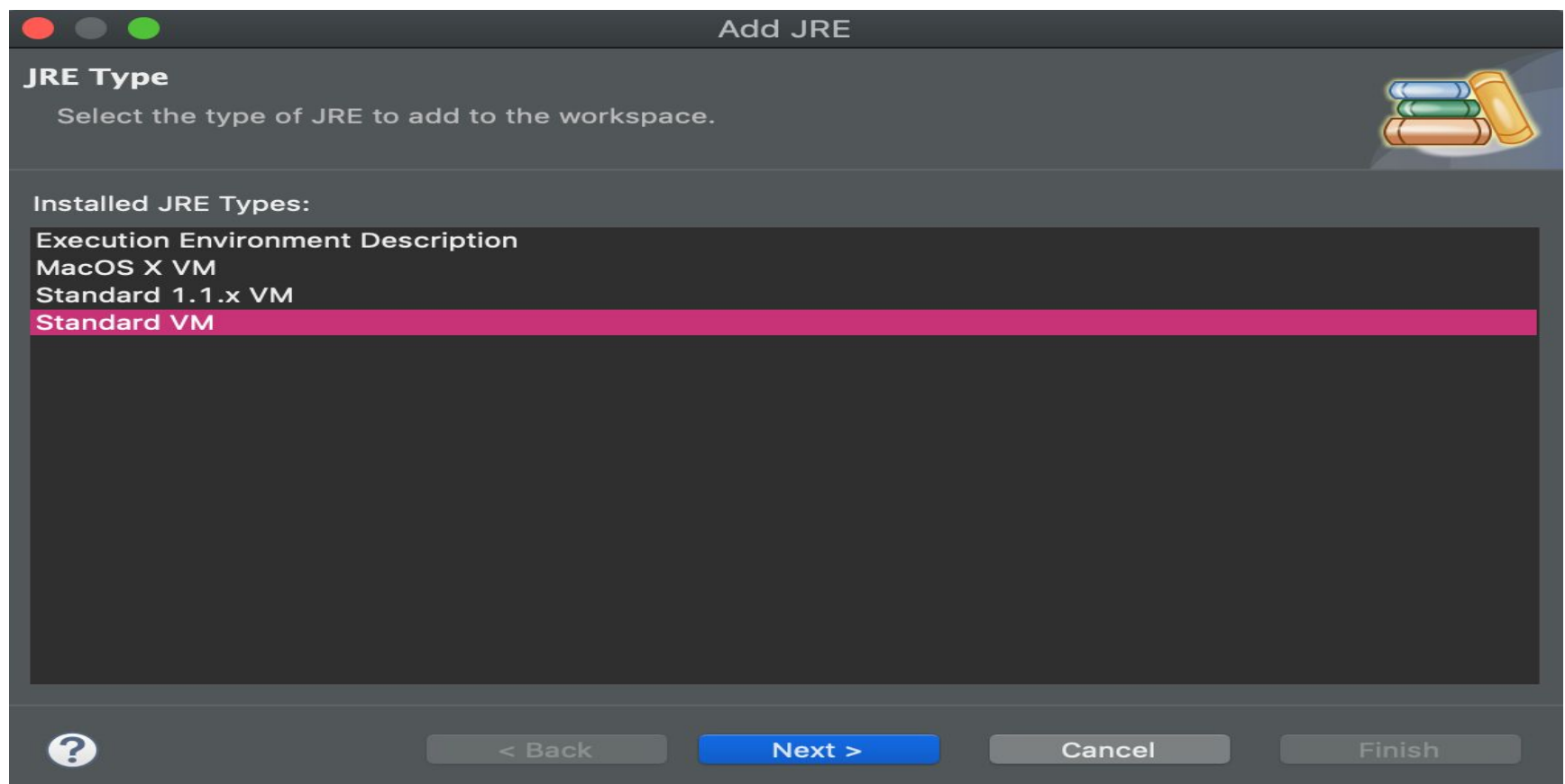
After click it the window should be look like this:



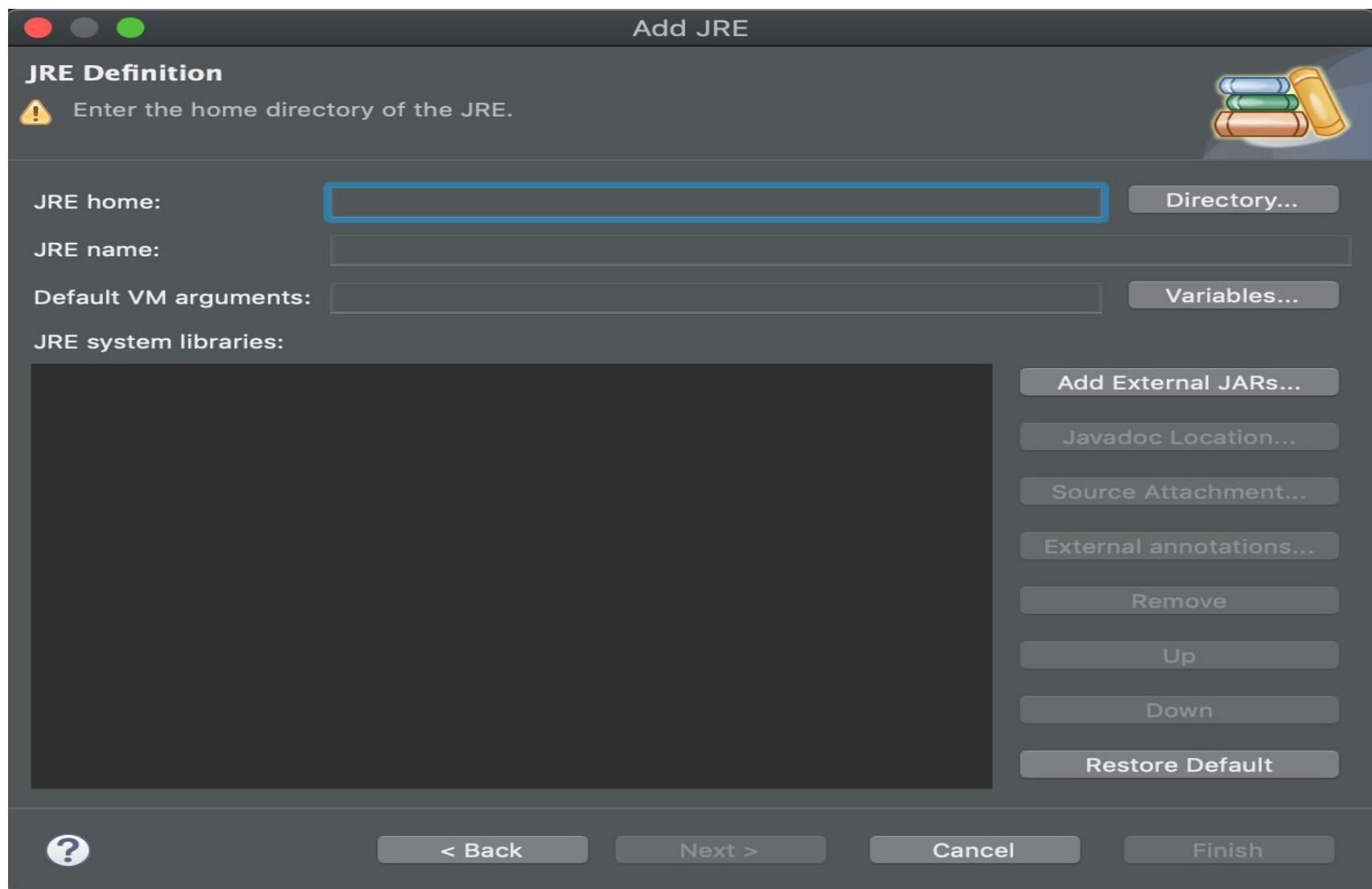
Then click “Installed JREs”



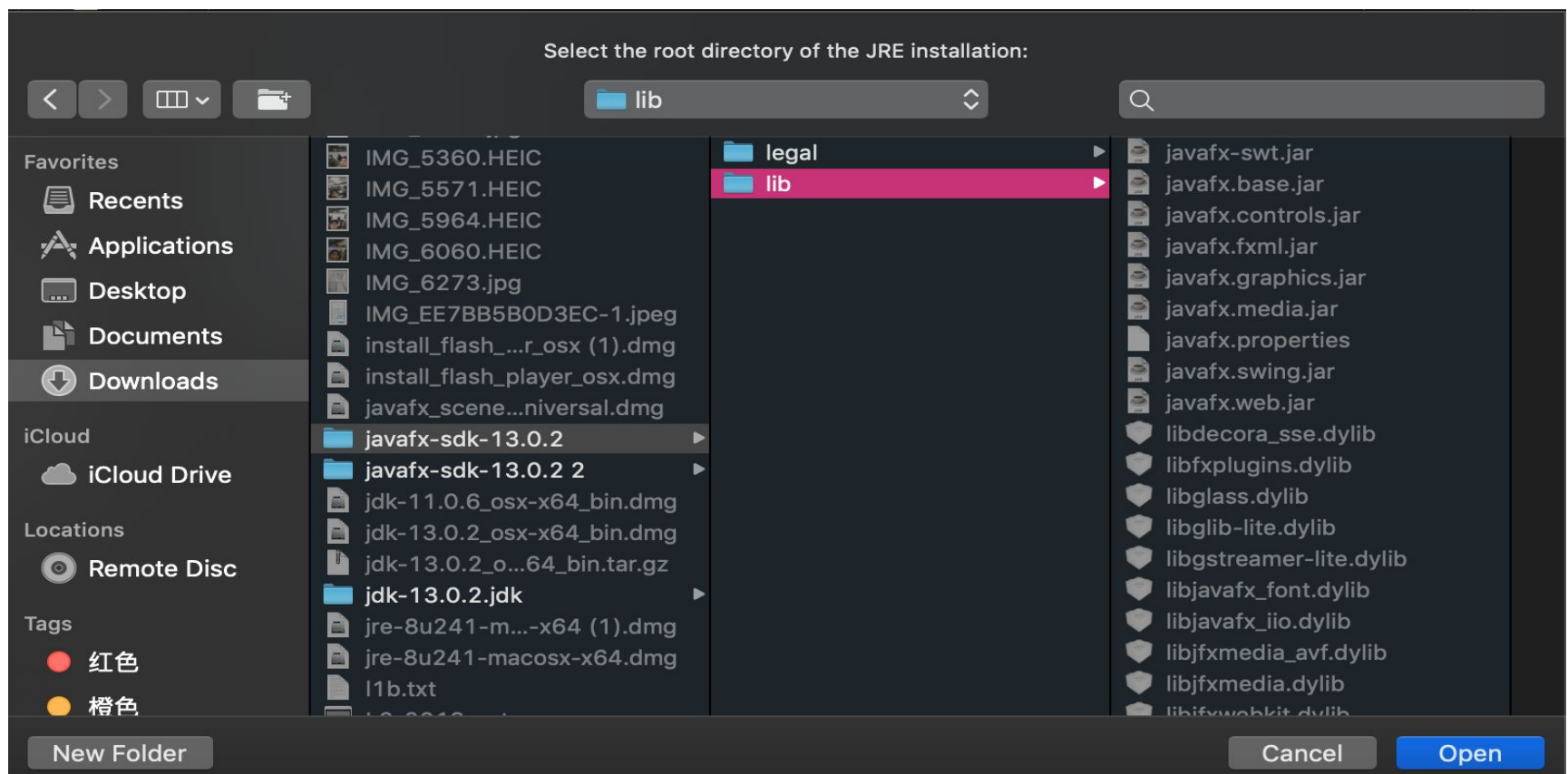
Click “Add”,then click “< Next >”



Click “Directory”, and go to the directory you unzip the JRE file, then go into the sub directory “lib”, then click “open”

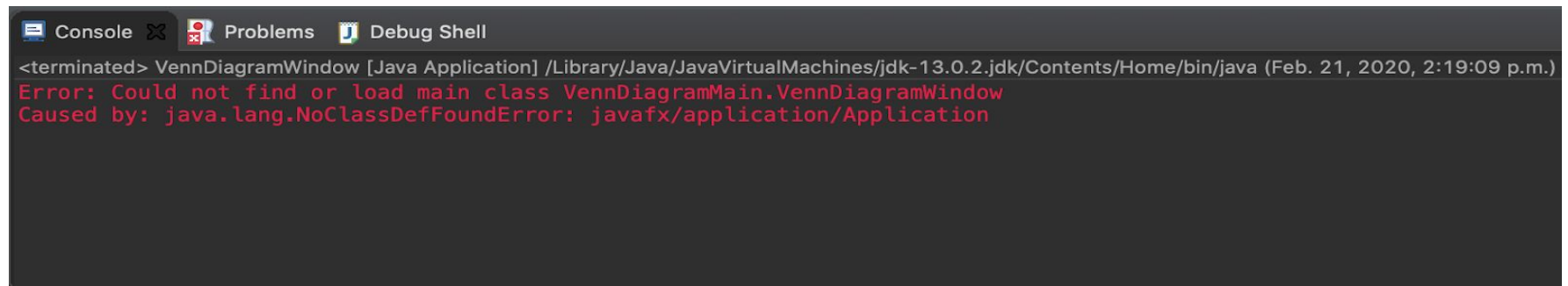


Now Your JRE directory should be setup successfully.

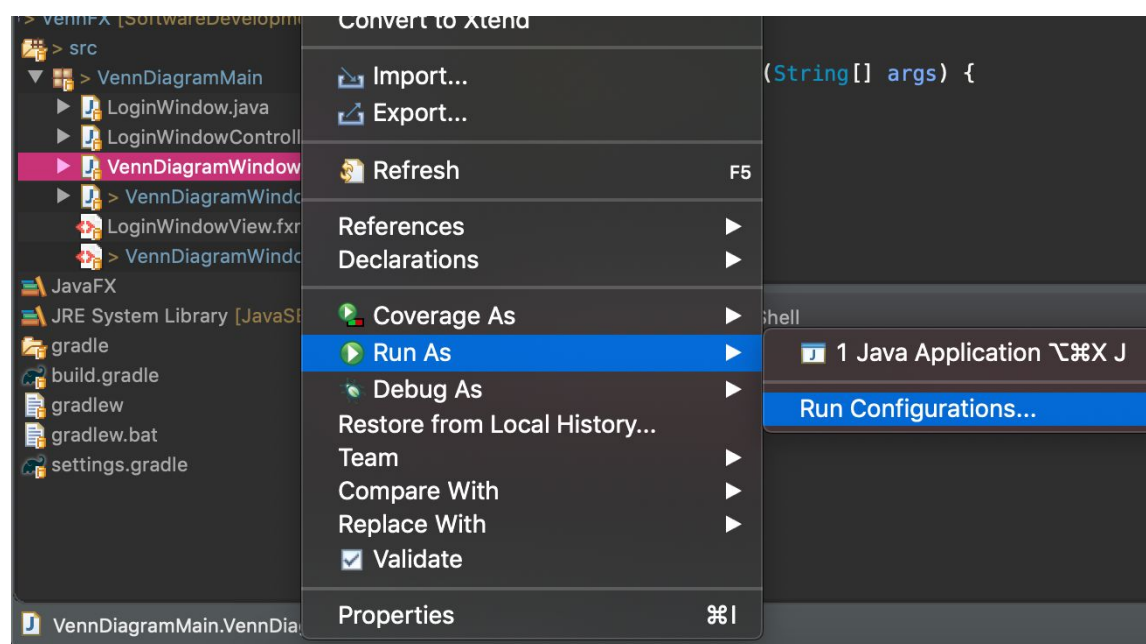


4.2.2. Could not find or load the main class

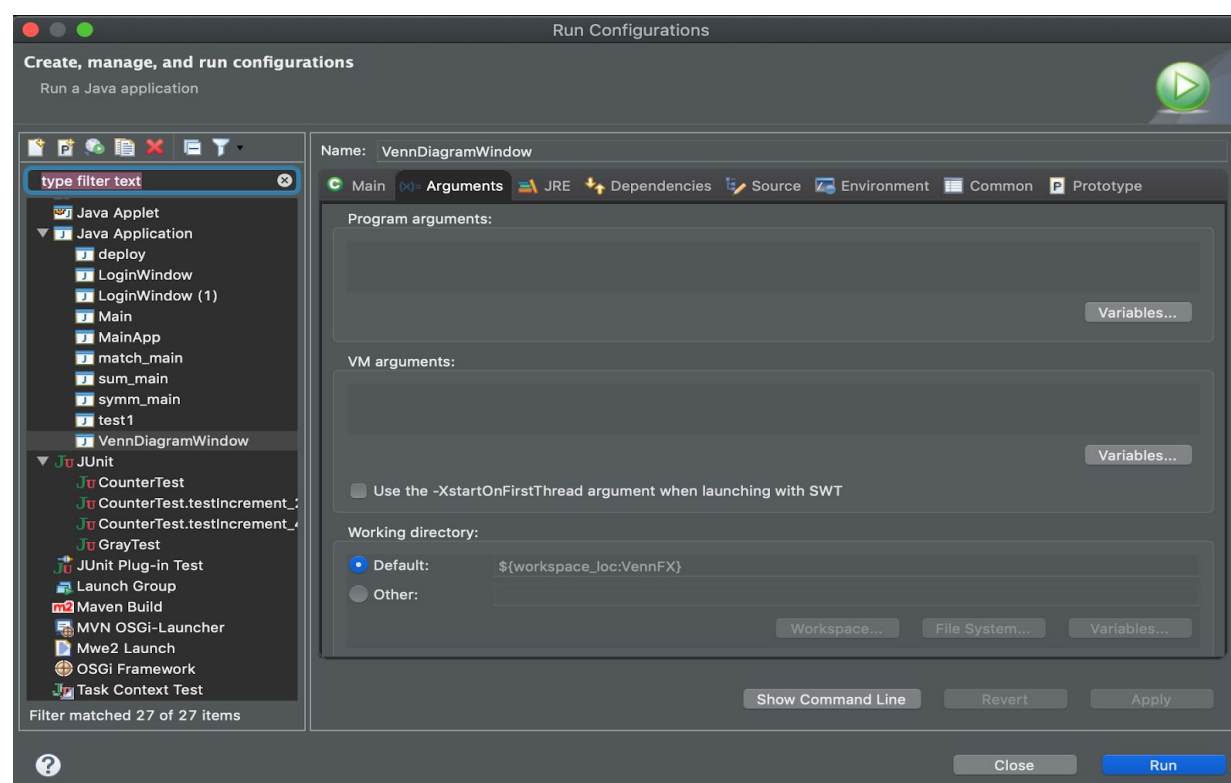
If your computer already installed the javafx, but still get this error might cause by the eclipse didn't load the javaFX appropriately. Here will introduce one of the solutions.



First right click the class you want to correct, and put the cursor on “Run As”, a new list will show up, then choose the second option called “run configuration”, there a new window should pop up.



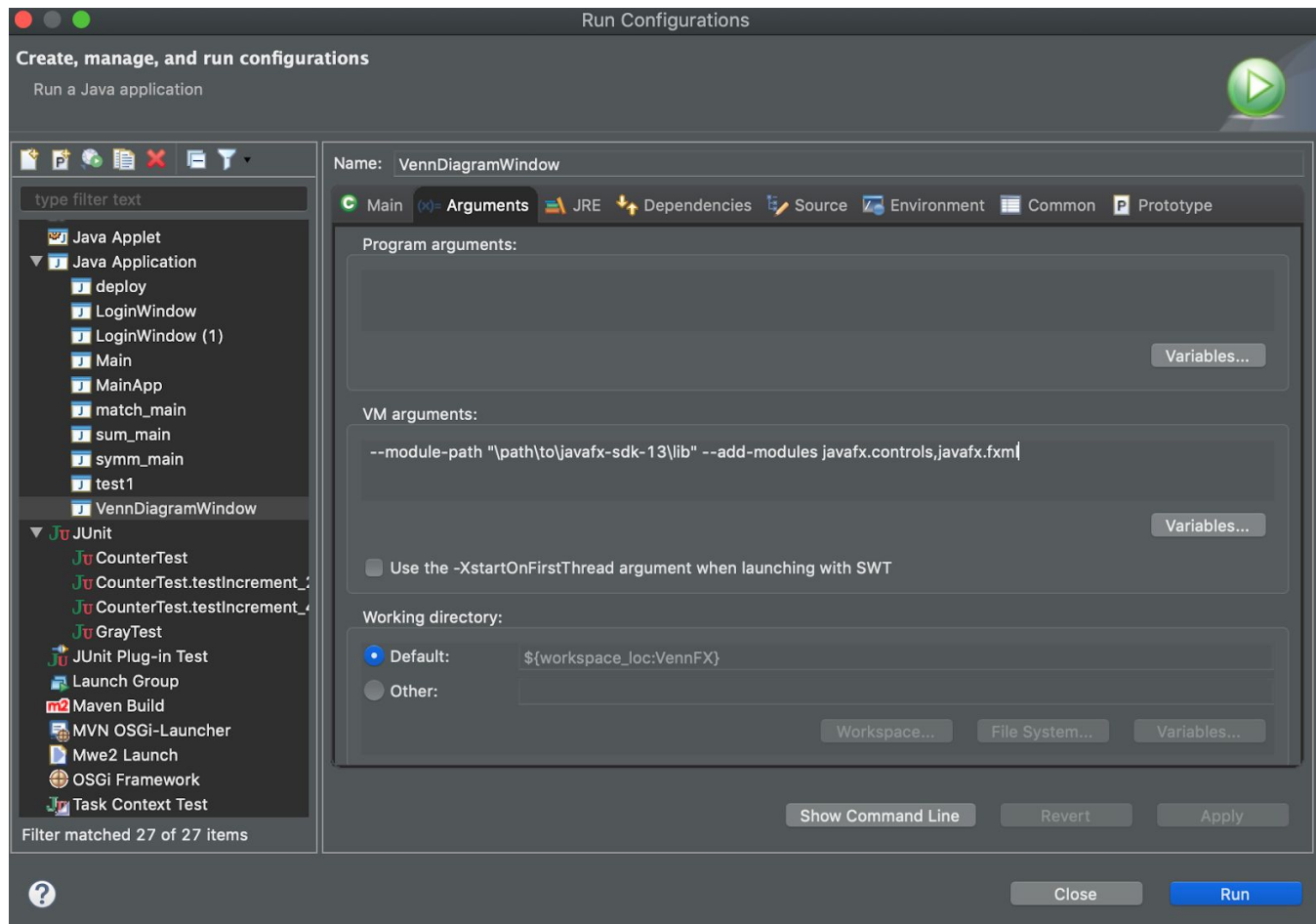
Then click “Arguments”



Look at the VM arguments, current VM arguments should be empty, then copy code below and paste it.

For linux or mac: `--module-path /path/to/javafx-sdk-13/lib --add-modules javafx.controls,javafx.fxml`

For window pc: `--module-path "\path\to\javafx-sdk-13\lib" --add-modules javafx.controls,javafx.fxml`



One thing needs to be mentioned: the PATH to java sdk above must be replaced with the PATH where you store the javafx sdk lib in YOUR computer.

(DO THIS ON EVERY CLASS THAT YOU RUN)

4.2.3 No window pop up (No response during operation)

This issue is more likely for a Mac client, but it is very easy to solve it. The resolution steps are similar to the previous step. Right click the class, put the cursor on the class, and then choose the “Run Configuration”. Then in the arguments interface uncheck the “Use the -XstartOnFirstThread argument when launching with SWT”, then click the “apply”, and run it. The problem should be solved right now.