

# CS611-Final-Project  
## Trading System

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## ## Files

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rsc/*	- resource folder containing .png, .jpeg, .gif, etc.
src/	- source folder
src/TradingSystem.java	- Entry point of program
src/*.java	- Java source files
src/TXT Files/*.txt	- Database files
src/Display/*.java	- GUI Java source files
src/Display/*.form	- GUI xml source files
src/Portfolio/*.java	- Portfolio Java source files

## ## Notes

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1. The project is built using Java 20 using Oracle OpenSDK 18. Backwards compatibility with Java 8 is not supported.
2. The project uses IntelliJ UI Form designer. Thus, compiling the project from source files must be done on a supporting IDE like IntelliJ.
3. Use username "admin" and password "admin" to log into the manager account.

## ## How to compile and run

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Ensure proper Java SDK (Java 20 OpenSDK 18) and IntelliJ are installed  
Create a IntelliJ project.  
Change project structure so src, src/Display, src/Portfolio are marked as source files (not packages)  
Compile and Run with configuration "TradingSystem"

In terminal run:  
javac TradingSystem.java  
java TradingSystem

## ## Instructions

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Run TradingSystem and a Login window will appear. Enter login credentials of an existing account, or create a new account by typing a username and password and pressing the "create account" button.

As a Customer, a trade window will appear. Currently owned stocks will be visible on the table on the bottom left side. Information will be updated periodically, but the "Refresh Table" button will manually refresh the table. Various options are accessible through the corresponding buttons.

The button right of the detailed info text will pull up additional information.

The button right of deposit/withdraw will allow you to deposit and withdraw money.

The button right of buy stocks will allow you to buy existing stocks.

The button right of sell stocks will allow you to sell owned stocks.

As an Manager (username and password "admin"), a manager window will appear. Stock values can be directly edited in the table in the bottom left. Press the save button to commit these changes which will apply on the next restart of the system. The manager can also view and change portfolios of customers by selecting the account on the drop down menu and pressing the Open button.