



Course Programming Project DePaul Stock Exchange (DSX)

Phase 6

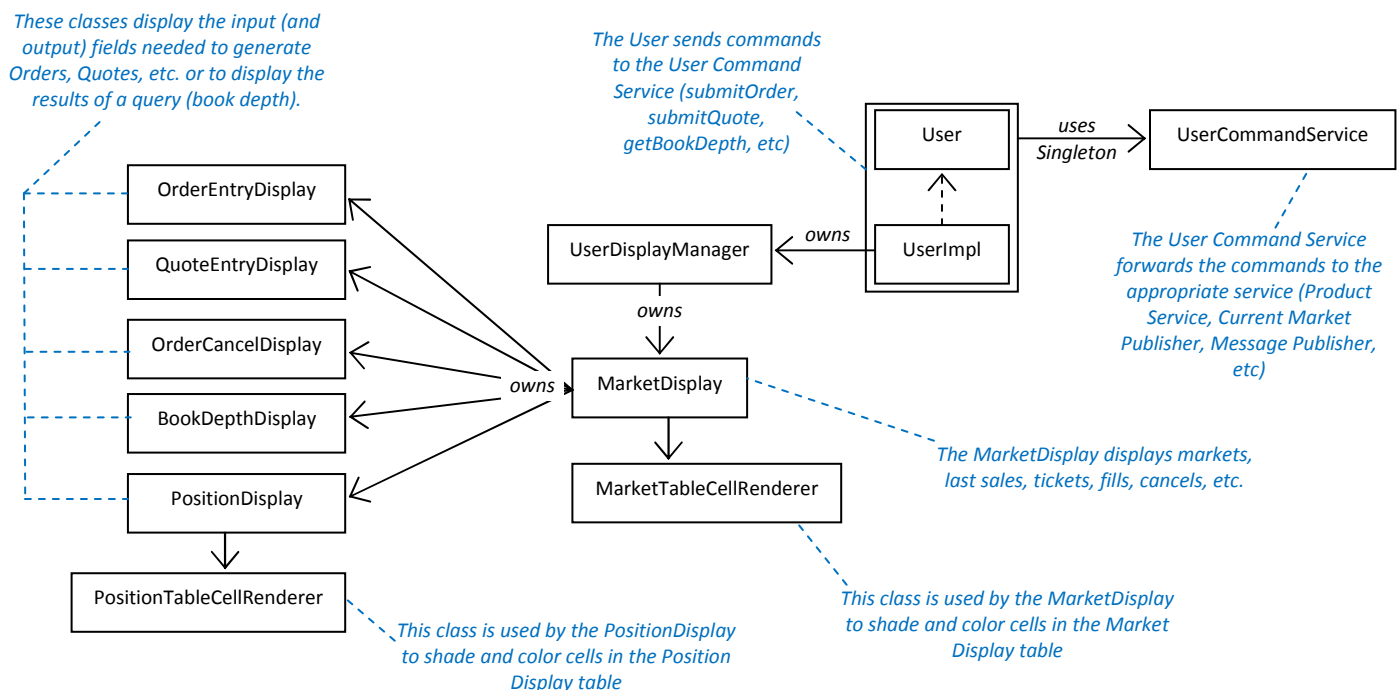


Integrating a Graphical User Interface

Phase 6 of the Course Programming Project involves integrating your existing code with a Graphical User Interface. No new coding is needed in this phase. Your task is to incorporate these classes into your project.

- Provided Classes to Integrate into your Project
 - **driver** <package>: MainManualTest.java & MainAutomatedTest.java.
 - **client** <package>: UserSim.java and UserSimSettings.java
 - **gui** <package>: MarketDisplay.java, MarketTableCellRenderer.java, OrderEntryDisplay.java, QuoteEntryDisplay.java, OrderCancelDisplay.java, BookDepthDisplay.java, PositionDisplay.java, PositionTableCellRendered.java

Overview of GUI Classes





Phase 6 Details

Provided Classes to Integrate into your Project

- **driver** <package>
 - Remove *all* previous drivers you have in your “driver” package.
 - Copy the 2 provided driver classes (MainManualTest.java & MainAutomatedTest.java) into your “driver” package. These can be found in the “driver” folder in the provided code zip file.
- **client** <package>
 - Copy the 2 provided classes (UserSim.java and UserSimSettings.java) into your “client” package. These can be found in the “client” folder in the provided code zip file.
- **gui** <package>
 - Remove the existing class “MarketDisplay.java” from your “gui” package.
 - Copy the 8 provided classes into your “gui” package. These can be found in the “gui” folder in the provided code zip file:
 1. MarketDisplay.java
 2. MarketTableCellRenderer.java
 3. OrderEntryDisplay.java
 4. QuoteEntryDisplay.java
 5. OrderCancelDisplay.java
 6. BookDepthDisplay.java
 7. PositionDisplay.java
 8. PositionTableCellRendered.java

Notes:

- These classes will be provided to you on the COL site (Documents section) in a ZIP file that contains the 3 folders mentioned here (“client”, “driver”, “gui”).
- I have used placeholders for the representation of the sides (BookSide, BUY/SELL) and the market states (CLOSED/PREOPEN/OPEN). You should replace these placeholders with **your** representation of these values.
- I added imports in the provided classes using a “best guess” as to what your classes are called and what package they might be in. If any of these are not correct, you should simply change/add these imports in the provided classes to make these classes work with **your** classes.
- You might also need to make slight changes if your class names or exceptions vary from what these classes were designed with. As in other phases, this kind of alteration is ok to do.



Testing Phase 6

Testing of Phase 6 will occur in 2 phases. One is a manual test where you will operate 2 GUIs (as though you were 2 users) according to a test plan. The other test is uses user simulators. 5 simulated users will perform trading activity while you watch on your GUI, and you watch for errors in the application's output. . The test plan will be posted as a separate document: "Testing Phase 6" in the Documents section on the COL site.

Phases & Schedule

The Course Programming Project will be implemented in phases, each with a specific duration and due date as is listed below. Detailed documents on each phase will be provided at the beginning of the phase.

Phase 1 (1 Week) 9/17 – 9/24:

- Price & Price Factory

Phase 2 (1 Week) 9/24 – 10/1:

- Tradable & Tradable DTO
- Order
- Quote & Quote Side

Phase 3 (2 Weeks) 10/1 – 10/15: [Midterm 10/8]

- Current Market Publisher
- Last Sale Publisher
- Ticker Publisher
- Message Publisher
- Fill Message
- Cancel Message
- Market Message
- User (interface)

Phase 4 (2 Weeks) 10/15 – 10/29:

- Product Service
- Book & Book Side
- Trade Processor

Phase 5 (1 Week) 10/29 – 11/5:

- User Implementation and related Classes
- User Command Service

Phase 6 (1 Week) 11/5 – 11/12:

- **User Interface GUI**
- **Simulated Traders**

[Final Exam 11/19]