

User's Manual

FarmersMarkets.java

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User's Manual

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1.0 Application Features

1.0 Application Features

The Application Features section provides a general overview of FarmersMarkets and its implementation in FarmersMarkets.java.

1.1 Concept Overview

FarmersMarkets is an application used to browse various farmers markets across the country. Users can get more information about specific markets and leave review for the ones they have been to.

1.2 Program Overview

The program FarmersMarkets.java was implemented using Java, JavaFX, JDBC, and MySQL. It stores all farmers market data, location data, and reviews data in MySQL through JDBC.

2.0 How To Run FarmersMarkets.java

2.0 How to Run FarmersMarkets.java

This section shows how to run FarmersMarkets.java from the command line.

Prerequisites: **FarmersMarkets, Java Development Kit, JavaFX, MySQL Server**

JDK: (<https://www.javatpoint.com/javafx-how-to-install-java>)

JavaFX: (<https://gluonhq.com/products/javafx/>)

MySQL: (<https://dev.mysql.com/downloads/installer/>)

MySQL must be set up with at least one user with the ability to create, edit, and view databases.

In addition, assuming FarmersMarkets.java will be run on the same computer as MySQL Server, the following information is required:

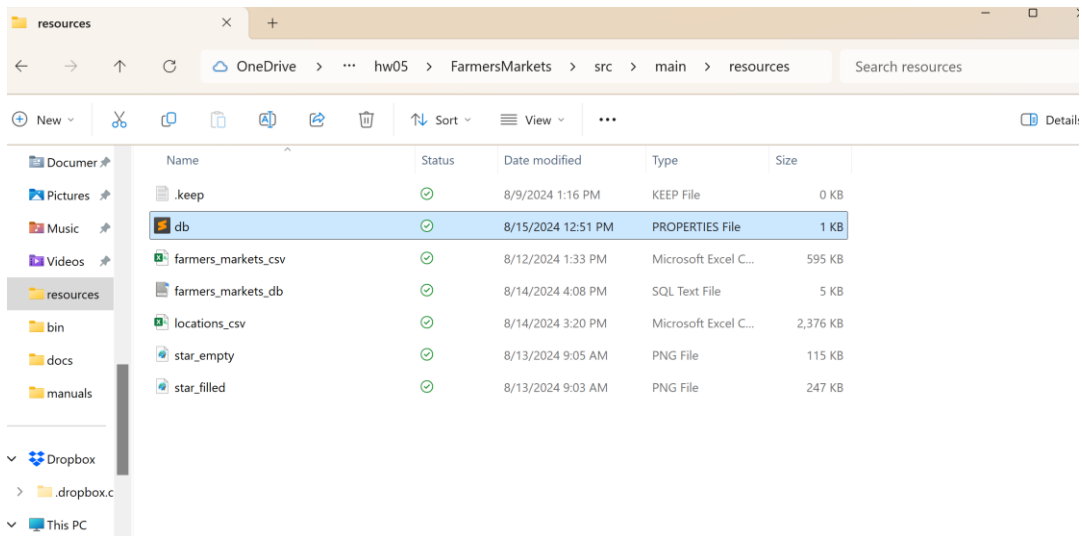
- 1. MySQL Server port number (e.g. 3306).**
- 2. MySQL Server user's username (e.g. root).**
- 3. MySQL Server user's password.**

If FarmersMarkets.java will not be run on the same computer as MySQL Server, the IP address of the computer with MySQL Server is also required.

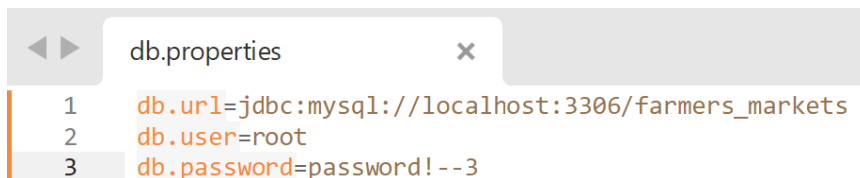
- In the db.properties file, replace “localhost” with the IP address of the computer with MySQL Server.

2.1 From the Command Line on Windows

- Step 0) Copy the path to your JavaFX\lib directory.
- Step 1) Open File Explorer.
- Step 2) Navigate to the FarmersMarkets folder.
- Step 3) Navigate to the “src” folder.
- Step 4) Navigate to the “main” folder.
- Step 5) Navigate to the “resources” folder.
- Step 6) Open the file called “db” or “db.properties”.

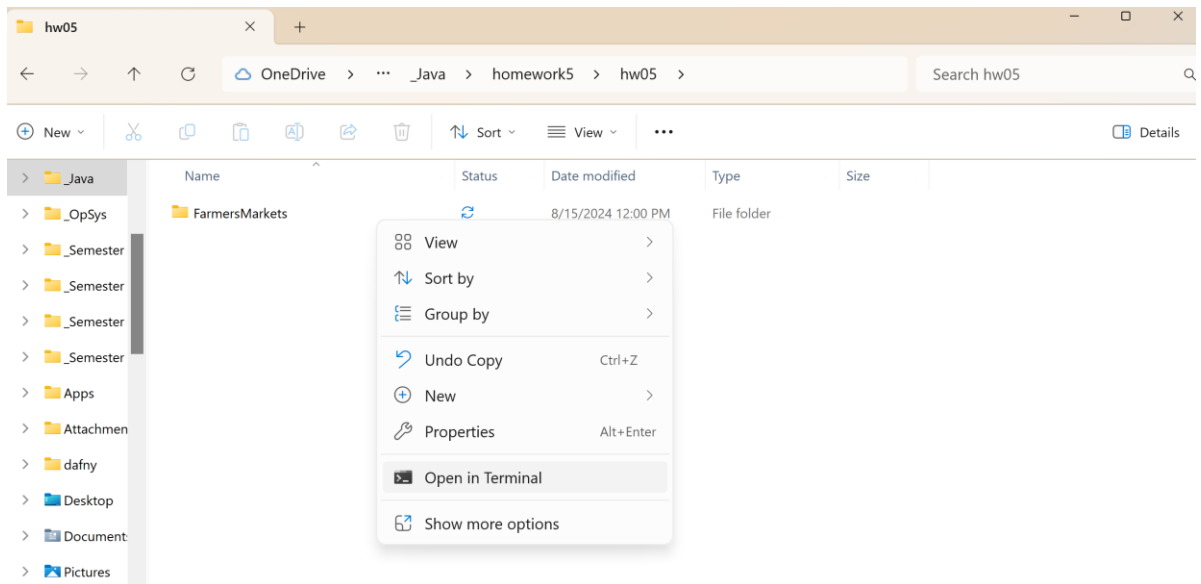


- Step 7) Replace “__PORT_NUMBER__” with your MySQL server port number (e.g. 3306).
- Step 8) Replace “__USERNAME__” with your MySQL server username (e.g. root)
- Step 9) Replace “__PASSWORD__” with your MySQL server password (e.g. password!—3).



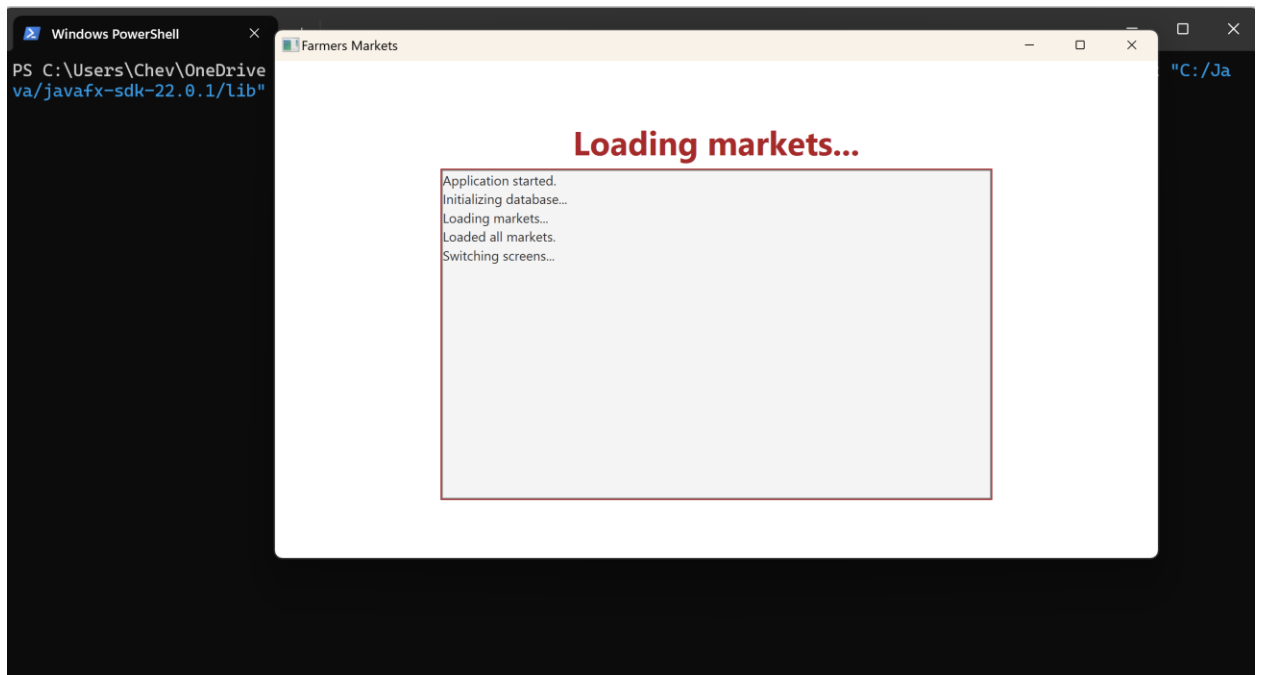
Step 10) Save and close db.properties. Navigate back to the hw05 folder.

Step 11) Right click on FarmersMarkets and select “Open in Terminal”.



Step 12) Type the following command into the terminal and then press the enter key:

```
scripts\Run.bat <PATH_TO_JAVAFX\lib>
```



2.2 From the Command Line on MacOS

- Step 0) Copy the path to your JavaFX\lib directory.
- Step 1) Click on Finder in the dock.
- Step 2) Navigate to the FarmersMarkets folder.
- Step 3) Navigate to the “src” folder.
- Step 4) Navigate to the “main” folder.
- Step 5) Navigate to the “resources” folder.
- Step 6) Open the file called “db” or “db.properties”.
- Step 7) Replace “__PORT_NUMBER__” with your MySQL server port number.
- Step 8) Replace “__USERNAME__” with your MySQL server username.
- Step 9) Replace “__PASSWORD__” with your MySQL server password.
- Step 10) Save and close db.properties. Navigate back to the hw05 folder.
- Step 11) Right click on FarmersMarkets and select “New terminal at folder”.
- Step 12) Type the following command into the terminal and then press the enter key:

```
scripts\Run.bat <PATH_TO_JAVAFX\lib>
```

3.0 Browse Markets

3.0 Browse_Markets

This section describes the “Browse Markets” tab.

Markets can be searched for by city and state or by zip code using the panel on the right side of the application.

Only markets with a valid longitude and latitude may be searched for
(FarmersMarkets/src/main/resources/farmers_markets_csv.csv).

3.1 Search by City and State

To search by city and state, enter the city name in the “City: “ text field and the state initials in the “State: “ text field.

Enter the maximum distance from this city and state you would like to search for in the “Distance: “ text field. Distance must be a positive number (decimals okay).

Click on the “Search by City and State” button below.

3.2 Search by Zip Code

To search by zip code, enter the zip code in the “Zip code: “ text field.

Enter the maximum distance from this city and state you would like to search for in the “Distance: “ text field. Distance must be a positive number (decimals okay).

Click on the “Search by Zip Code” button below.

4.0 Market Tab

4.0 Market Tab

This section describes the tab that is opened when a market is selected in the Browse Markets tab.

Each market has various pieces of information listed in the market tab, along with reviews left by you and other users on the same computer.

4.1 Leaving a Review

Users may leave reviews on markets.

A review consists of a display name, a rating from 1 to 5, and an optional comment.

Each display name may leave up to one review for each market.

The screenshot shows a web application window titled "Farmers Markets". It has four tabs: "Browse Markets", "Mid-Town Farmers Market", "Riverside Farmers' Market", and "Colorado Farm and Art Market X". The "Colorado Farm and Art Market X" tab is active. Below the tabs, there are links for "Youtube:" and "Other Media:". The main content area displays market information: "Location: -104.8146880,38.9377160", "Tags: WIC, Organic, Cheese, Crafts, Flowers, Eggs, Seafood, Herbs, Vegetables, Honey, Jams, Maple, Nursery, Poultry, Prepared, Soap, T", and "Update time: 8/3/2020 1:44:04 PM". Below this is a section titled "Leave a review for this market" with a "Rating:" label and five star icons. The first three stars are yellow, and the last two are grey. Below the stars is a "Display name:" label and a text input field containing "Chev-1". Below that is a "Comment:" label and a text input field containing "It was okay. No dog shops.". A "Post Review" button is located below the comment field. At the bottom, there is a "Reviews:" section with two review entries. The first entry is from "Chev-1" with a rating of "3/5" and a comment "It was okay. No dog shops." dated "2024-08-15 13:54:58". The second entry is from "Chev-0" with a rating of "5/5" and a comment "Awesome! I loved the cheese." dated "2024-08-15 13:54:34".

Farmers Markets

Browse Markets Mid-Town Farmers Market Riverside Farmers' Market Colorado Farm and Art Market X

Youtube:

Other Media:

Location: -104.8146880,38.9377160
Tags: WIC, Organic, Cheese, Crafts, Flowers, Eggs, Seafood, Herbs, Vegetables, Honey, Jams, Maple, Nursery, Poultry, Prepared, Soap, T
Update time: 8/3/2020 1:44:04 PM

Leave a review for this market

Rating:

★ ★ ★ ☆ ☆

Display name:

Chev-1

Comment:

It was okay. No dog shops.

Post Review

Reviews:

Chev-1
3/5
It was okay. No dog shops.
2024-08-15 13:54:58

Chev-0
5/5
Awesome! I loved the cheese.
2024-08-15 13:54:34

5.0 Error Messages

5.0 Error Messages

The Error Messages section lists all possible error messages in FarmersMarket.java and how to fix them.

5.1 List of Error Messages

Distance is missing or invalid (must be positive). ---- See section 3.1 or 3.2: Search by City and State or Search by Zip Code. The distance field is either empty or not a positive number. Enter a valid distance (e.g. 10.5).

No markets with a valid location matched your search. ---- See section 3.1 or 3.2: Search by City and State or Search by Zip Code. No markets were found within [distance] miles of the city and state, or zip code entered. Try a different location and/or distance.

Zip code is required to search by zip code. ---- See section 3.2: Search by Zip Code. The zip code field is empty. Enter a valid zip code.

A display name is required to post a review. ---- See section 4.1: Leave a review. The display name text field cannot be empty. Type a display name.

Each display name may only post one review per market. ---- See section 4.1: Leave a review. A user may leave at most 1 review per market using the same display name. Change your display name or leave a review on a different market.