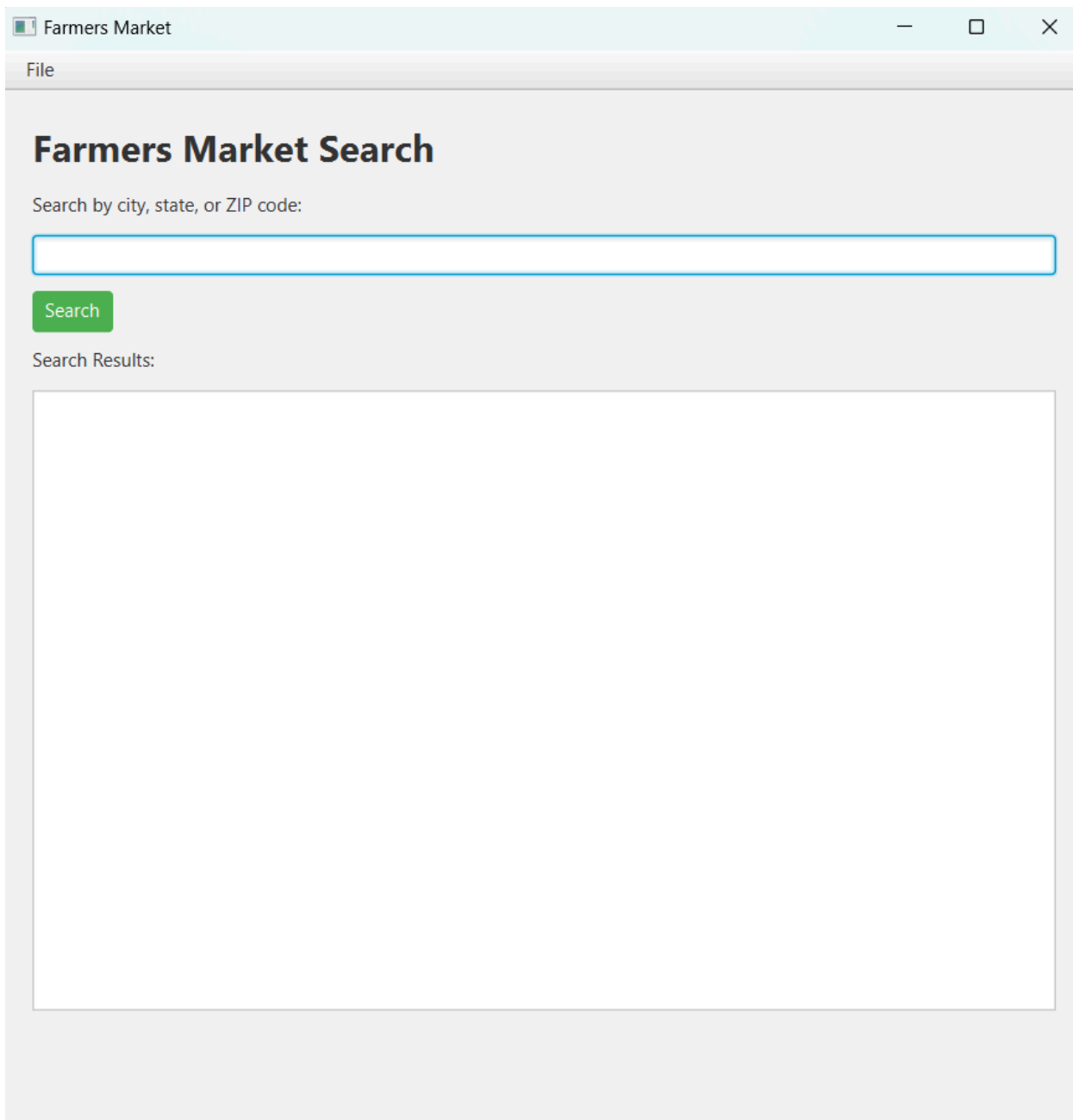


User Manual for Farmers Market



The screenshot shows a web application window titled "Farmers Market". The window has a standard macOS-style title bar with minimize, maximize, and close buttons. Below the title bar is a menu bar with the word "File". The main content area has a heading "Farmers Market Search". Underneath the heading is a label "Search by city, state, or ZIP code:" followed by a text input field. Below the input field is a green button labeled "Search". Under the button is a label "Search Results:" followed by a large, empty rectangular box for displaying search results.

Farmers Market

File

Farmers Market Search

Search by city, state, or ZIP code:

Search

Search Results:

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Introduction

This is the user manual for an implementation of searching in the list of farmers markets around the country. The main goal of the manual is to provide a comprehensive guide on how the program works and how to use the program at different steps. It includes a detailed explanation of the features and common errors that you may encounter.

Starting the Application

Prerequisites:

- Java Development Kit (JDK) installed on your system.
- JavaFX SDK installed.

Setting up the Database:

This program requires a MySQL server to act as the database backend. During development mysql Ver 8.0.39-0ubuntu0.24.04.1 for Linux on x86_64 ((Ubuntu)) was used. Follow the guide to install MySQL from their documentation site.

The following commands were used on Ubuntu 24.04 to set up for the development environment. Change the root password as needed.

```
$ sudo apt-get update
$ sudo apt-get install mysql-server
$ mysql_secure_installation
```

Notice, mysql_secure_installation will ask a series of questions related to the security of the database. For testing, password validation can be disabled but not recommended for production. Changing the root password is optional, if it is changed keep track of the password. Removal of the anonymous user is recommended. Disable root login remotely is recommended to be yes however to testing it can be set to no making it more convenient. Removal of the test database is recommended to be yes. At the end reloading privilege tables is yes to take effect now.

Next create a table and a user to access said table. First login to the MySQL server and then run the following commands changing the database name, user name, and password as needed. Here the user is named user001 and the database is named db001.

```
$ mysql -u root -p
CREATE DATABASE db001;
CREATE USER 'user001'@'%' IDENTIFIED BY 'USER_PASSWORD_HERE';
GRANT Alter ON db001.* TO 'user001'@'%';
GRANT Create ON db001.* TO 'user001'@'%';
GRANT Create view ON db001.* TO 'user001'@'%';
GRANT Delete ON db001.* TO 'user001'@'%';
GRANT Drop ON db001.* TO 'user001'@'%' WITH GRANT OPTION;
GRANT Index ON db001.* TO 'user001'@'%';
GRANT Insert ON db001.* TO 'user001'@'%';
GRANT References ON db001.* TO 'user001'@'%';
GRANT Select ON db001.* TO 'user001'@'%';
GRANT Show view ON db001.* TO 'user001'@'%';
```

```
GRANT Trigger ON db001.* TO 'user001'@'%';  
GRANT Update ON db001.* TO 'user001'@'%';
```

The program is able to automatically fill in the database on the first launch, this is the recommended method. A dump is also provided at ./dump/db001.sql for manually importing. Copy the dump file to the database server and change the terminal working directory to the dump file. Then run the following command.

```
$ mysql -u user001 -p db001 < db001.sql
```

Config File

Users must set up a config file in the resources directory to access the database

```
db.url=link  
db.user=username  
db.password=password
```

Note: do NOT commit the config file when uploading code to any online source

Running the Program:

1. **Navigate to the Source Directory.**
2. **Compile the Java files:** Use the `javac` command to compile all Java files in the specified package directory.
3. **Run the JavaFX Application:** Use the `java` command to run the main application class. Ensure that you specify the fully qualified class name, including the package.

Notes:

JavaFX Modules: Since JavaFX is not included in the JDK by default, ensure you have the JavaFX SDK installed and properly configured. If you are using Java 11 or later, you might need to add the JavaFX modules explicitly:

```
java --module-path /path/to/javafx-sdk/lib --add-modules  
javafx.controls,javafx.fxml  
edu.rpi.cs.csci4963.u24.kims35.hw05.farmersmarket.FarketApplication.java
```

Summary:

To start the Farmers Market Search application:

1. Ensure you have Java and JavaFX installed on your system.
2. Compile and run the `FarketApplication` class.
3. The main statistics page of the application will appear.

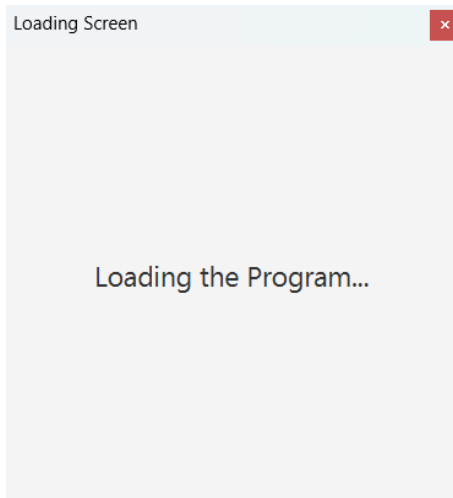
Running the Program

The application should look like this:
INSERT PIC HERE

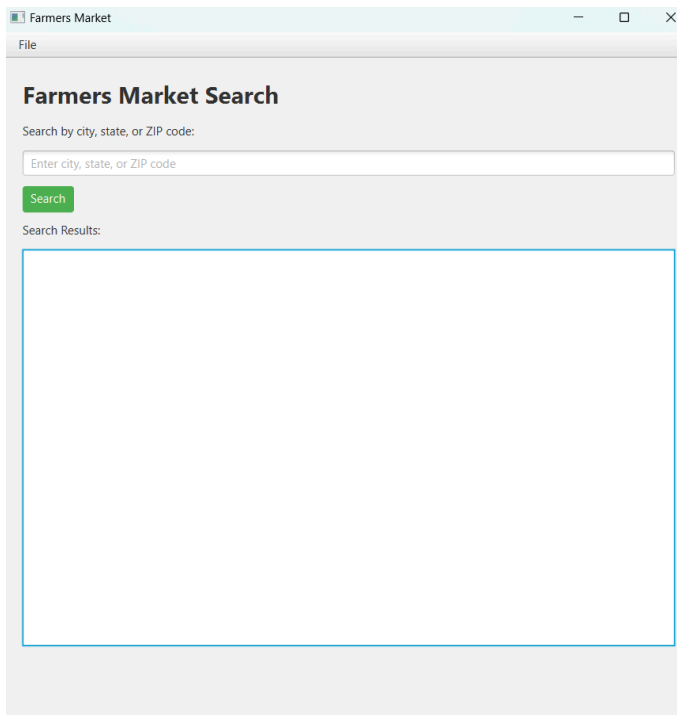
Main Step

Short explanation of main step

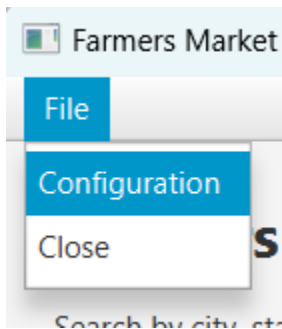
1. Launch the FarketApplication.java program. You may choose to do this by running the script. You should get a loading screen that looks like this:



2. Once the program loads, the loading screen should automatically disappear. You should get something like this:



3. On the upper left side, click on File and go to the configuration panel.



4. Users can choose to change the database url, username, password, and limit the search results by their preferred distance in miles, though the initial configurations should be recorded in the configuration.properties file.

A screenshot of the 'Configuration' dialog box. The dialog has a title bar with 'Configuration' and standard window controls. The main area is titled 'Configuration' and contains four input fields: 'Database URL:' with placeholder text 'Enter database URL', 'Database User:' with placeholder text 'Enter database user', 'Database Password:' with placeholder text 'Enter database password', and 'Preferred Distance:' with an empty input field. At the bottom, there are two buttons: a green 'Save' button and a red 'Cancel' button.

5. Users can search by city, state, or zip code. If the program finds enough results, a scroll bar will appear on the right side with results appearing in alphanumeric order.

The screenshot shows a web application window titled "Farmers Market". Below the title bar is a "File" menu. The main content area has a heading "Farmers Market Search". Underneath, it says "Search by city, state, or ZIP code:". There is a text input field containing the word "georgia" and a green "Search" button. Below the search bar, it says "Search Results:". A scrollable list of 18 farmers markets is displayed, including "Amicalola Regional Farmers Market", "Artistlane Farmers Market", "Athens Farmers Market, L.L.C.", "Athens Farmers Market, LLC", "Barrow County Farmers Market", "CAVE SPRING FARMERS MARKET", "Church St Farmers Market", "Cotton Mill Farmers Market", "Decatur Farmers Market", "Dodge County Farmer's Market", "East Atlanta Village Farmers Market", "East Point Farmers Market", "Freedom Farmers Market at the Carter Center", "Grant Park Farmers Market", "Green Market at Piedmont Park", "Growing Augusta Pop-Up Market", and "Hinesville Farmers Market".

6. Double clicking on one of the results will open up a detailed view that displays the market name, address, rating, reviews, and an option to leave their own review.

The screenshot shows a web application window titled "Market Details". The main content area is split into two columns. The left column displays information for the "Amicalola Regional Farmers Market", including its address "186 Recreation Road, Dawsonville, Dawson, Georgia 30534" and a "Rating: 0.0". Below this is a section titled "Reviews:" followed by a large empty rectangular box for displaying reviews. The right column is titled "Leave a Review" and contains three input fields: "Enter your name", "Enter your rating (1-5)", and "Enter your comment (optional)". A green "Submit Review" button is located at the bottom of this section.

Market Details

Amicalola Regional Farmers Market

186 Recreation Road, Dawsonville, Dawson, Georgia 30534

Rating: 0.0

Reviews:

Leave a Review

john doe

4

mid

Submit Review

- Reopening the detailed view will display reviews left with the username, rating, and the optional comment.

Market Details

Amicalola Regional Farmers Market

186 Recreation Road, Dawsonville, Dawson, Georgia 30534

Rating: 4.0

Reviews:

User: john doe
Rating: 4.0
mid

Leave a Review

Enter your name

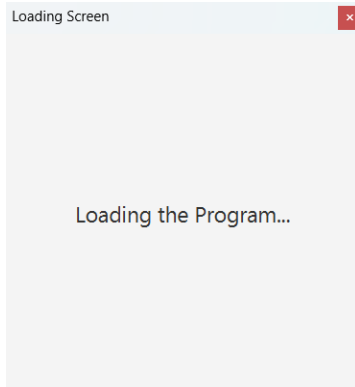
Enter your rating (1-5)

Enter your comment (optional)

Submit Review

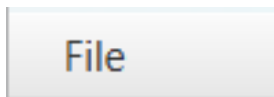
UI Features:

Loading Screen:



Stays open while csv files load. Automatically closes once the main screen loads in.

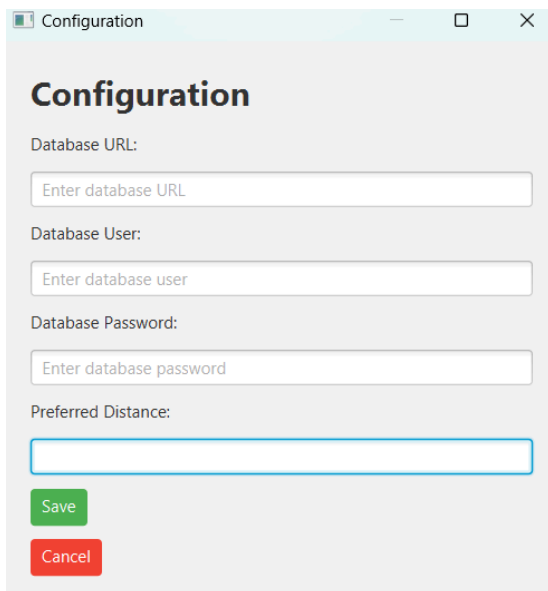
Menu Bar:



File-> Configuration - opens up the configuration window

File -> Close - closes the program

Configuration Window:

A screenshot of a 'Configuration' window. The window has a title bar with the text 'Configuration' and standard window controls. The main area is light gray and contains the title 'Configuration' in bold. Below the title are four input fields: 'Database URL:' with a placeholder 'Enter database URL', 'Database User:' with a placeholder 'Enter database user', 'Database Password:' with a placeholder 'Enter database password', and 'Preferred Distance:' with an empty field. At the bottom are two buttons: a green 'Save' button and a red 'Cancel' button.

Database URL - users can enter the database URL

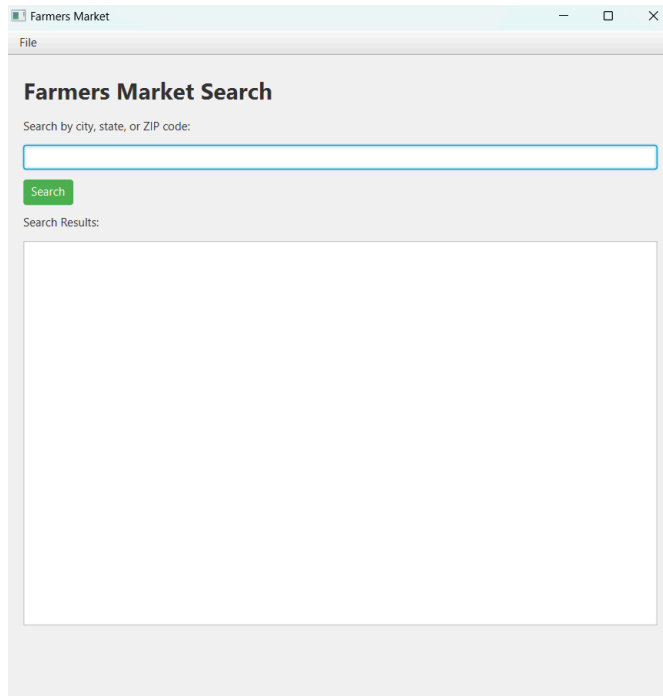
Database User - users can enter the database username

Database Password - users can enter the database password

Preferred Distance - users can enter the preferred distance to filter the search result

Note: Database configurations should be done through the configuration.properties file.

Main Window:

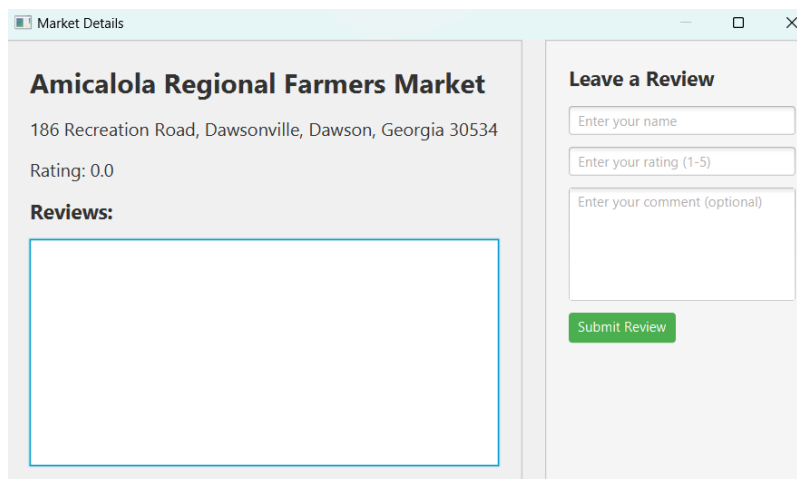


The screenshot shows a window titled "Farmers Market" with a "File" menu. The main content area is titled "Farmers Market Search". Below the title, it says "Search by city, state, or ZIP code:" followed by a text input field. A green "Search" button is located below the input field. Underneath the button, it says "Search Results:" followed by a large, empty rectangular box for displaying results.

Search Bar - Users can search by city, state, or zip code to look up markets around the country based on the csv file.

Search Result Window - Displays all markets within the preferred distance of the search result.

Detailed Window:



The screenshot shows a window titled "Market Details". The main content area is divided into two columns. The left column is titled "Amicalola Regional Farmers Market" and contains the address "186 Recreation Road, Dawsonville, Dawson, Georgia 30534" and a "Rating: 0.0". Below the rating, it says "Reviews:" followed by a large, empty rectangular box for displaying reviews. The right column is titled "Leave a Review" and contains three input fields: "Enter your name", "Enter your rating (1-5)", and "Enter your comment (optional)". A green "Submit Review" button is located below the comment field.

Displays market name, full address, total rating, submitted reviews (username, rating, optional comment), and an option to leave a review to be added to the database.