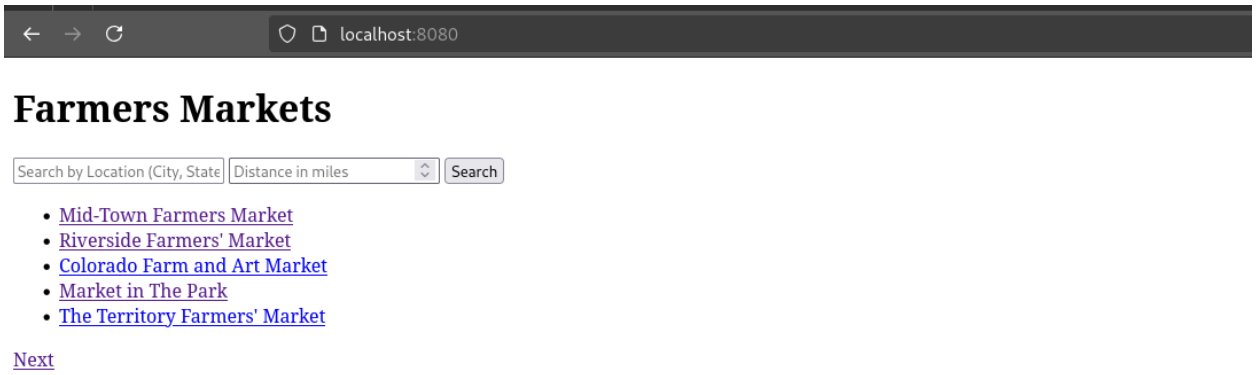
User Manual for Farmers Market



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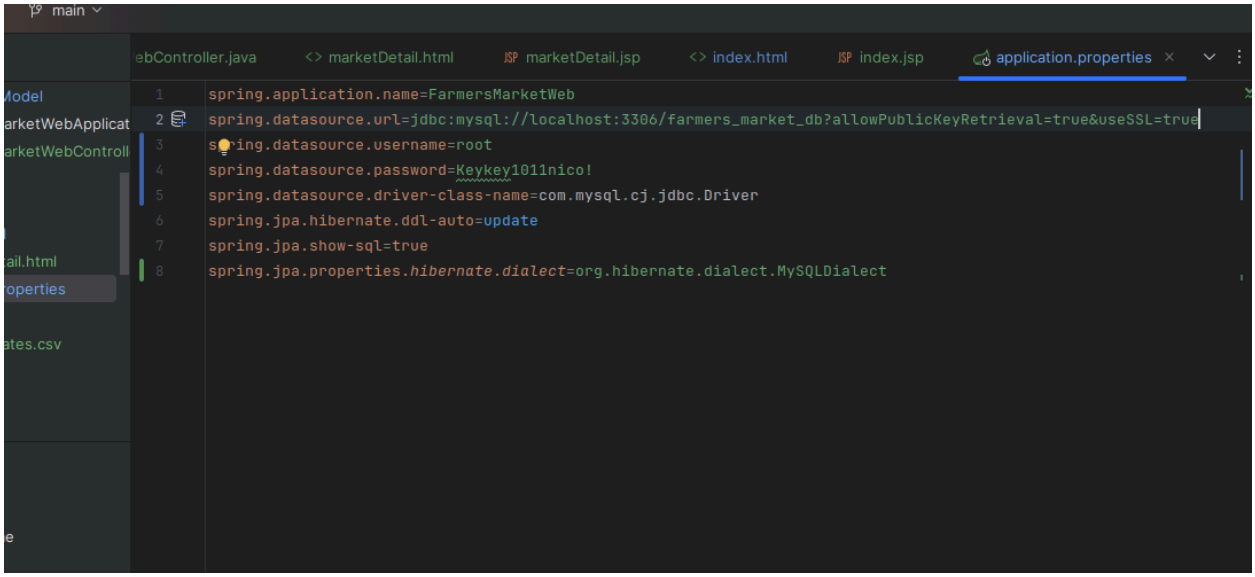
Prerequisites:

- Java Development Kit (JDK) installed on your system.
- Install MySQL

Starting Program

1. Navigate to the `src/main/resources` directory.
2. Open `application.properties` in a text editor.



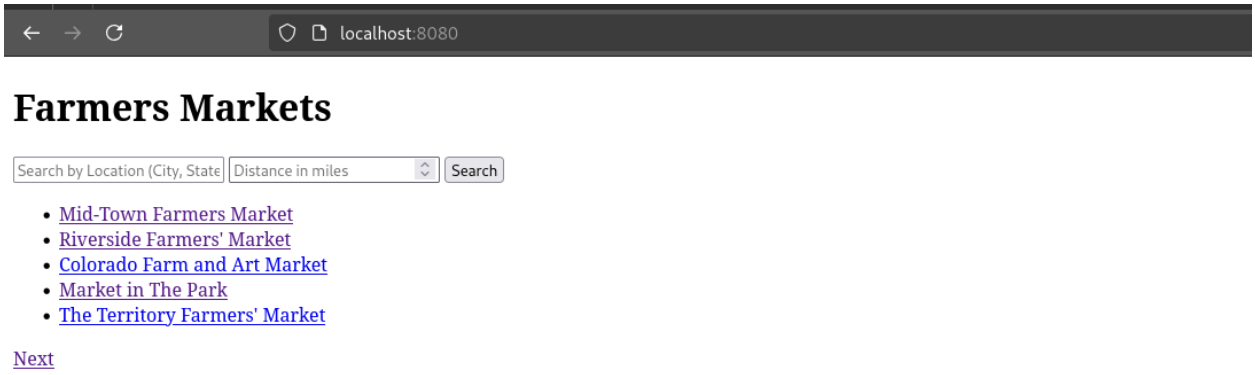
3. Update the database configuration parameters:
4. Do the same for db.config.properties located in the root directory

Build and Run the Application:

- Open a terminal and navigate to the root directory of the project.
- Use Maven to build the project:
  `mvn clean install`
- Run the application:
  `java -jar target/farmers-market-application.jar`

Quickstart Guide

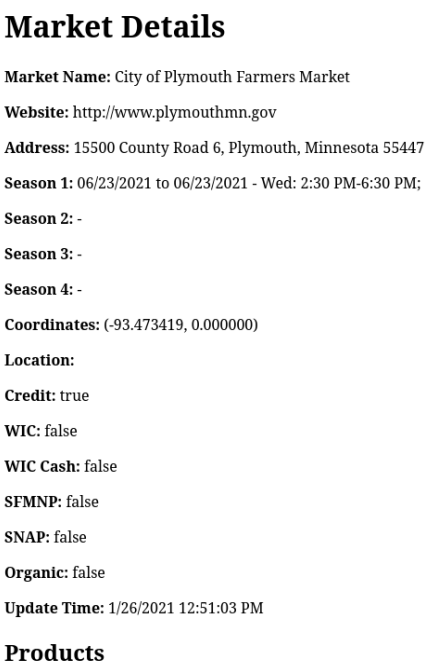
1. **Access the Home Page:**
    - Open your web browser and go to the application's home page at `/`.
    - Here, you'll see a list of farmers markets, along with a search form at the top.



2. **Search for Markets:**
    - In the search form, enter a location such as a city, state, or zip code.
    - Optionally, specify a distance in miles to filter markets within a certain range.
    - Click the "Search" button to display markets that match your criteria.

3. **Navigate Through Results:**
    - Use the "Previous" and "Next" links at the bottom of the market list to view more results.
    - Click on any market name to see more detailed information about that market.

4. **View Market Details:**
    - Once on the Market Details page, review comprehensive information including the market's location, products, and seasonal schedules.



Detailed User Manual

Main Pages and Functionalities

1. **Home Page**
    - **URL:** `/`
    - **Purpose:** Displays a list of farmers markets with pagination.
    - **Elements:**
        - **Search Form:** Enter a location (city, state, or zip code) and an optional distance in miles to find nearby markets.
        - **Market List:** Displays basic details of markets, such as the name and address.
        - **Pagination:** Navigate through multiple pages of market listings using "Previous" and "Next" links.
    - **Interaction:**
        - Use the search form to filter markets by location and distance.
        - Click on a market name to view detailed information.
2. **Search Results Page**
    - **URL:** `/search`
    - **Purpose:** Shows a filtered list of markets based on user-provided search criteria.
    - **Elements:**
        - **Search Form:** Similar to the home page, with fields for location and distance.
        - **Search Results:** Markets that match the search query are listed.
    - **Interaction:**
        - Enter a query in the search form and click "Search" to filter the results.
3. **Market Details Page**
    - **URL:** `/marketDetailByName?marketName={marketName}`
    - **Purpose:** Provides in-depth information about a specific farmers market.

- **Elements:**
  - **Market Information:** Displays the market's name, website, address, and seasonal schedules.
  - **Coordinates and Location:** Shows the GPS coordinates and the physical location of the market.
  - **Payment Options:** Indicates if the market accepts credit, WIC, WIC Cash, SFMNP, SNAP, and if it is organic.
  - **Products Available:** Lists the products sold at the market.
  - **Update Time:** Displays when the market information was last updated.
- **Interaction:**
  - Users can click on a market name from the results to view these details.

Common User Actions

1. **Search for Markets:**
   - Use the search form to enter a location and optionally specify a distance.
   - Click "Search" to view markets that match your criteria.
2. **Pagination:**
   - Navigate through the results using "Previous" and "Next" links at the bottom of the market list.
3. **View Market Details:**
   - Click on a market name in the list to see its detailed information.

Error Handling

- **Search Errors:** If an issue occurs during a search, an error message will be displayed on the search results page.
- **Missing Market Details:** If the requested market details are not found, a message will appear on the Market Details page.

Technical Notes

- **Backend:** The application uses Java Spring Boot for backend operations, including database interactions.
- **Frontend:** Thymeleaf templates are used to generate dynamic HTML pages based on backend data.
- **Pagination:** The application limits the number of markets displayed per page to handle large datasets effectively.

This manual should provide you with all the necessary steps to quickly start using the Farmers Market Web Application and fully explore its features.