Setup Guide: Running the foodGarden Spring Boot Assignment (Offline-Friendly)

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📁 **Files to Download**

Students must download the following zip files from Brightspace:

1. **foodGarden.zip →** Contains the Spring Boot project.

2. **.m2.zip →** Contains Maven dependencies needed to run the project offline (Only if you're using a lab PC or a machine with no internet).

Step-by-Step Setup Instructions

Step 1: Install Java JDK 17 (or Higher) if you don't have on your PC.

1. Open a browser at home or where you have internet, and download Java 17 or higher from the [Oracle JDK Downloads](#).

2. Install it and note the folder path (e.g., C:\Program Files\Java\jdk-17).

Step 2: Set Java Environment Variables

1. Search for "Environment Variables" in the Start menu.

2. Under System Variables, click New:

   o Variable name: JAVA_HOME

   o Variable value: C:\Program Files\Java\jdk-17 (adjust if yours is different)

3. Edit the Path variable, and Add:

   o C:\Program Files\Java\jdk-17\bin

4. Open Command Prompt and type:

5. java -version

You should see something like java version "17.x..."

Step 3: Install Maven (Offline-Compatible)

1. Download Maven from https://maven.apache.org/download.cgi.

2. Extract the Maven folder to a place like C:\maven

3. Set MAVEN_HOME:

    o Variable name: MAVEN_HOME

    o Value: C:\maven

4. Add this to the Path:

    o C:\maven\bin

5. Test in CMD:

6. mvn -version

Step 4: Setup Maven Repository (Offline Labs Only)

If you're working on a lab computer without internet:

1. Extract the .m2.zip into your home directory:

2. C:\Users\Student\

After extracting, you should see:

C:\Users\Student\.m2\

3. This will allow Maven to find all the dependencies it needs without going online.

Step 5: Extract the Project Files

1. Extract foodGarden.zip to any suitable location. For lab machines, we recommend:

2. D:\projects\foodGarden\

You can also use another folder name as needed.

Step 6: Build and Run the Spring Boot App

1. Open Command Prompt.

2. Navigate to the project folder:

3. cd D:\projects\foodGarden

4. **Run the following to build the project:**

5. **mvn clean install**

   o **If everything is set up correctly, this will download or find dependencies and compile your app.**

6. **Run the app:**

7. **mvn spring-boot:run**

Step 7: View the App

1. Once the app starts, open a browser.

2. Go to:

3. **http://localhost:8080**

   o **This should open the default page of your app (e.g., home or a welcome screen).**

Step 7: View the App

- To stop the app press ctrl + C

Notes for Students

- You can edit HTML templates using Notepad++ in this folder:

    o **src\main\resources\templates**

- You can edit Java files in:

    o **src\main\java\com\assignment\foodGarden**

Troubleshooting

Problem	Solution
'java' is not recognized	You didn't set JAVA_HOME or Path correctly.
'mvn' is not recognized	You didn't set MAVEN_HOME or Path correctly.
Could not resolve dependencies	You didn't extract the .m2 folder into the correct location.
App runs but nothing shows on browser	Check if the controller or HTML file is named and mapped correctly.