

StockShark – Local Run Guide

A concise checklist for spinning up StockShark on your workstation. *(Tested on Windows 11).*

1 • Prerequisites

Tool	Recommended Version	Notes
Java JDK	17 LTS or newer	Set JAVA_HOME.
IntelliJ IDEA Ultimate	2024.1	Community edition won't deploy to Tomcat.
XAMPP	8.x bundle (PHP 8, MySQL 8, Apache 2.4)	Provides MySQL & Apache HTTP.
Apache Tomcat	10.1 (Jakarta EE 9)	Download ZIP distro – no installer required.
Git	latest	Clone repo.
Maven	3.9+	Only if the project is Maven-based (check pom.xml).

2 • Install & configure XAMPP

1. Run the XAMPP installer.
 2. Launch **XAMPP Control Panel** → **Start Apache & MySQL**.
 - Verify: `http://localhost` shows the XAMPP dashboard.
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3 • Create the database

```
-- phpMyAdmin > SQL
CREATE DATABASE stockshark_db CHARACTER SET utf8mb4;
```

1. In phpMyAdmin, select **Import**.
2. Choose `stocksharkdb.sql` (in `/sql/` folder) → **Go**.
3. You should now see tables like `users`, `watchlist`, `stocks`.

4 • Install & register Tomcat in IntelliJ

1. There is a tomcat folder available in the project repository. If you experience difficulties using it feel free to download a copy from their official website.
2. Unzip Tomcat (e.g., C:\Tools\apache-tomcat-10.1.x).


5 • Open the project

1. **File** ► **Open...** → select the repo root.
2. IntelliJ detects Maven/Gradle and indexes.
3. Ensure **Project SDK** is set to JDK 17 (File ► Project Structure ► Project).

6 • Configure a Run/Debug configuration

1. **Run** ► **Edit Configurations...** → + → **Tomcat Server** ► **Local**.
2. Name it **StockShark-Local**.
3. **Deployment** tab:
 - Click + → **Artifact** → choose StockShark:war exploded (or your module's artifact).
4. **Server** tab:
 - HTTP port: 8080
 - JMX port (optional): 1099
5. **Environment variables** (if required):
6. DB_URL=jdbc:mysql://localhost:3306/stockshark_db
7. DB_USER=root
8. DB_PASS=<yourPwd>
FINANCE_API_KEY=<yourKey>

7 • Run the application

1. Select **StockShark-Local** in the toolbar.
2. Click  **Run** (or **Debug** for breakpoints).
3. Watch the *Run* console – Tomcat should deploy without errors.
4. Browse http://localhost:8080/stockshark (context path may differ).

8 • Test Application

- Register a new user → log in.