MyShuttle Application Deployment Documentation (Windows)

1. Install Java on Windows

- Download the latest Java JDK from Oracle **(https://www.oracle.com/java/technologies/downloads/) or OpenJDK (https://adoptium.net/).**

- Run the installer and follow the prompts.

- Configure environment variables:

  - Open System Properties → Advanced → Environment Variables.

  - Add JAVA_HOME pointing to the JDK install path (e.g., C:\Program Files\Java\jdk-21).

  - Add %JAVA_HOME%\bin to the PATH.

- Verify installation:

  java -version

2. Download and Configure Apache Tomcat

- Download Tomcat from **https://tomcat.apache.org/download-90.cgi.**

- Extract the .zip file to C:\Tomcat.

- Configure environment variables:

  - Add CATALINA_HOME pointing to C:\Tomcat.

  - Add %CATALINA_HOME%\bin to the PATH.

- Start Tomcat by running:

  startup.bat (located in C:\Tomcat\bin).

- To stop Tomcat:

  shutdown.bat

3. Deploy WAR File

- Copy your myshuttledev.war file into:

  C:\Tomcat\webapps

- Tomcat will auto-deploy the WAR when started.
- Access the app at:

   http://localhost:8080/myshuttledev

4. Install and Configure MySQL

- Download MySQL Community Server from
   https://dev.mysql.com/downloads/installer/.
- Run installer and select Server only or Developer Default.
- Configure root password during installation.
- Start MySQL Workbench or use CLI:

   CREATE DATABASE MyShuttleDb;

   CREATE USER 'user'@'localhost' IDENTIFIED BY 'password';

   GRANT ALL PRIVILEGES ON MyShuttleDb.* TO 'user'@'localhost';

   FLUSH PRIVILEGES;

5. Import SQL Schema and Data
- Place initData.sql and schema.sql in a folder (e.g., C:\MyShuttleDB\).
- Import using MySQL Workbench or CLI:

   mysql -u root -p MyShuttleDb < C:\MyShuttleDB\schema.sql

   mysql -u root -p MyShuttleDb < C:\MyShuttleDB\initData.sql

6. Configure JDBC Connection
- Locate the WEB-INF\classes folder of your deployed WAR

   (C:\Tomcat\webapps\myshuttledev\WEB-INF\classes).
- Open the JDBC configuration file (e.g., DataAccess.class or application.properties).
- Update connection string to:

   jdbc:mysql://localhost:3306/MyShuttleDb

   user=user

   password=password

7. Restart Tomcat

- Restart Tomcat to apply changes:

  shutdown.bat

  startup.bat

Final Step

- At this point, you can open:

  http://localhost:8080/myshuttledev

  and your application should be running.