Hotel Reservation System – Full Setup & Error Resolution Guide

Project Directory Structure

Tech Stack Summary

Layer	Technology	Purpose
Frontend	HTML, CSS	User Interface design
Backend	Java (Servlets), JSP	Business Logic, Routing
Storage	File I/O or SQLite (optional)	Booking persistence (extendable)

Compilation Guide - Fixing `` Errors

XError:

error: package jakarta.servlet does not exist error: cannot find symbol: class HttpServlet

Cause:

You included only 1 . jar | file. Servlets require multiple JARs.

Solution:

- 1. Open Command Prompt (CMD)
- 2. Navigate to your project folder:

cd E:\PROJECTS\HotelReservationSystem

3. Compile using all required JARs:

javac -cp "C:\Needy\glassfish-7.0.25\glassfish7\glassfish\modules*" -d
WEB-INF\classes frontend\pages\reserve\BookingServlet.java

This compiles the servlet successfully.

If "doesn't work, use full JAR paths:

javac -cp "C:

\Needy\glassfish-7.0.25\glassfish7\glassfish\modules\jakarta.servlet-api.jar;C:
\Needy\glassfish-7.0.25\glassfish7\glassfish\modules\jakarta.annotationapi.jar;C:\Needy\glassfish-7.0.25\glassfish7\glassfish\modules\jakarta.injectapi.jar" -d WEB-INF\classes frontend\pages\reserve\BookingServlet.java

✓ Set Java Path (if needed):

set JAVA_HOME=E:\PROJECTS\JDK
set PATH=%JAVA_HOME%\bin;%PATH%

Start Server:

cd C:\Needy\glassfish-7.0.25\glassfish7\bin
asadmin start-domain

Restart Server (if port already in use):

asadmin stop-domain
asadmin start-domain

Deploying the Project

Option 1: Deploy via Admin Console

- 1. Open browser → http://localhost:4848
- 2. Navigate: **Applications > Deploy**
- 3. Choose either project folder or .war | file

Option 2: Create WAR File (optional)

```
jar -cvf HotelReservationSystem.war *
```

Then deploy .war via Admin Console.

Important URLs to Access Pages

Page	URL
Home	http://localhost:8080/HotelReservationSystem/frontend/index.html
Booking Form	http://localhost:8080/HotelReservationSystem/frontend/pages/reserve/reserve.html
View Bookings	http://localhost:8080/HotelReservationSystem/frontend/pages/viewbooking/viewbooking.html
Servlet Route	/HotelReservationSystem/booking (BookingServlet.java)

Checklist: Every Time You Restart Your PC

1. Set Java environment:

set JAVA_HOME=E:\PROJECTS\JDK set PATH=%JAVA_HOME%\bin;%PATH%

1. Start GlassFish server:

cd C:\Needy\glassfish-7.0.25\glassfish7\bin
asadmin start-domain

1. Recompile servlets if updated:

javac -cp "C:\Needy\glassfish-7.0.25\glassfish\modules*" -d WEB-INF\classes frontend\pages\reserve\BookingServlet.java

1. Visit site:

http://localhost:8080/HotelReservationSystem/frontend/index.html

Tips

- Place .class files inside WEB-INF/classes after compilation.
- Use web.xml for servlet mapping.
- Avoid using old servlet JARs like javax.servlet in Jakarta EE 10+.
- For quick testing, always restart domain after major deployment.

You're all set to build, deploy, and scale your Java Servlet-based Hotel Reservation System! Need a PDF or DOC version of this guide? Just ask!

Pro Tip: For JSP and Servlet debugging, use browser DevTools and System.out.println() in servlet code for simple logs.