

Servlet Mapping

Servlet Mapping:

- **Annotation-based Mapping:** Using `@WebServlet("/hello")` for automatic URL mapping in external Tomcat.
- **Manual Mapping:** In embedded Tomcat, use methods like `addServletMappingDecoded()` to associate URLs with specific servlets.

Manual Mapping for Embedded Tomcat:

```
Context context = tomcat.addContext("", null);
tomcat.addServlet("HelloServlet", new HelloServlet());
context.addServletMappingDecoded("/hello", "HelloServlet");
tomcat.start();
tomcat.getServer().await();
```

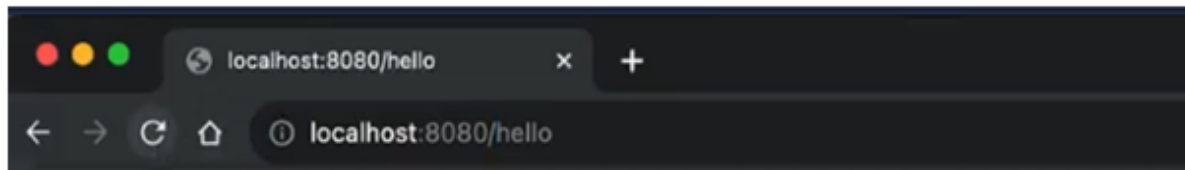
```
public class App
{
    public static void main( String[] args ) throws LifecycleException {
        System.out.println( "Hello World!" );
        Tomcat tomcat = new Tomcat();

        Context context = tomcat.addContext( contextPath: "", docBase: null);
        Tomcat.addServlet(context, servletName: "HelloServlet", new HelloServlet());
        context.addServletMappingDecoded( s: "/hello", s1: "HelloServlet");

        tomcat.start();
        tomcat.getServer().await();
    }
}
```

Output:

```
INFO: Starting service [Tomcat]  
Dec 14, 2023 11:12:10 AM org.apache.catalina.core.StandardEngine startInterr  
INFO: Starting Servlet engine: [Apache Tomcat/8.5.96]  
Dec 14, 2023 11:12:10 AM org.apache.coyote.AbstractProtocol start  
INFO: Starting ProtocolHandler ["http-nio-8080"]  
In Service
```



Custom Port Configuration:

`tomcat.setPort(8081)` changes the default port from 8080.