create maven web application

```
mvn archetype:generate -DgroupId=com.kgisl.webapp1 -DartifactId=webapp1 -
DarchetypeArtifactId=maven-archetype-webapp -DinteractiveMode=false
```

web application project structure

https://mkyong.com/wp-content/uploads/2012/12/maven-web-project-2.png alt

Servlet spec in web.xml

```xml
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
         http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
         version="3.1">
```

Maven shade plugin, Maven Compiler plugin, Maven Tomcat plugin

```xml
<plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.1</version>
      <configuration>
        <source>1.8</source>
        <target>1.8</target>
        <fork>true</fork>
        <executable>C:\Program Files\Java\jdk1.8.0_131\bin\javac</executable>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.tomcat.maven</groupId>
      <artifactId>tomcat7-maven-plugin</artifactId>
      <version>2.2</version>
      <configuration>
        <port>9090</port>
        <path>/</path>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-shade-plugin</artifactId>
      <version>3.1.0</version>
      <configuration>
        <!-- put your configurations here -->
      </configuration>
      <executions>
        <execution>
          <phase>package</phase>
          <goals>
```

```
            <goal>shade</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
```

Servlet dependencies

```
<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>javax.servlet-api</artifactId>
    <version>3.1.0</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>javax.servlet.jsp-api</artifactId>
    <version>2.3.1</version>
    <scope>provided</scope>
  </dependency>
  <dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
  </dependency>
```

Build and Run your web application

```
mvn clean install
mvn tomcat7:run
http://localhost:9090/
```

References

[Servlet specification](#)

[web.xml deployment descriptor examples](#)