Spring WEB MVC USING MAVEN

Folder System:-

```
SpringWebMvcApp
  src/main/java
    com.app.config
      AppConfig.java
    com.app.controller
      HomeController.java
    com.app.init
      AppInit.java
  src/main/resources
    app.properties
  src/test/java
  Maven Dependencies
  Apache Tomcat v8.5 [Apache Tomcat v8.5]
  JRE System Library [JavaSE-1.8]
  src
    main
      webapp
        WEB-INF
          views
            Welcome.jsp
    test
  target
  pom.xml
```

pom.xml:-

```xml
<dependencies>
        <dependency>
                <groupId>org.springframework</groupId>
                <artifactId>spring-webmvc</artifactId>
                <version>5.1.8.RELEASE</version>
```
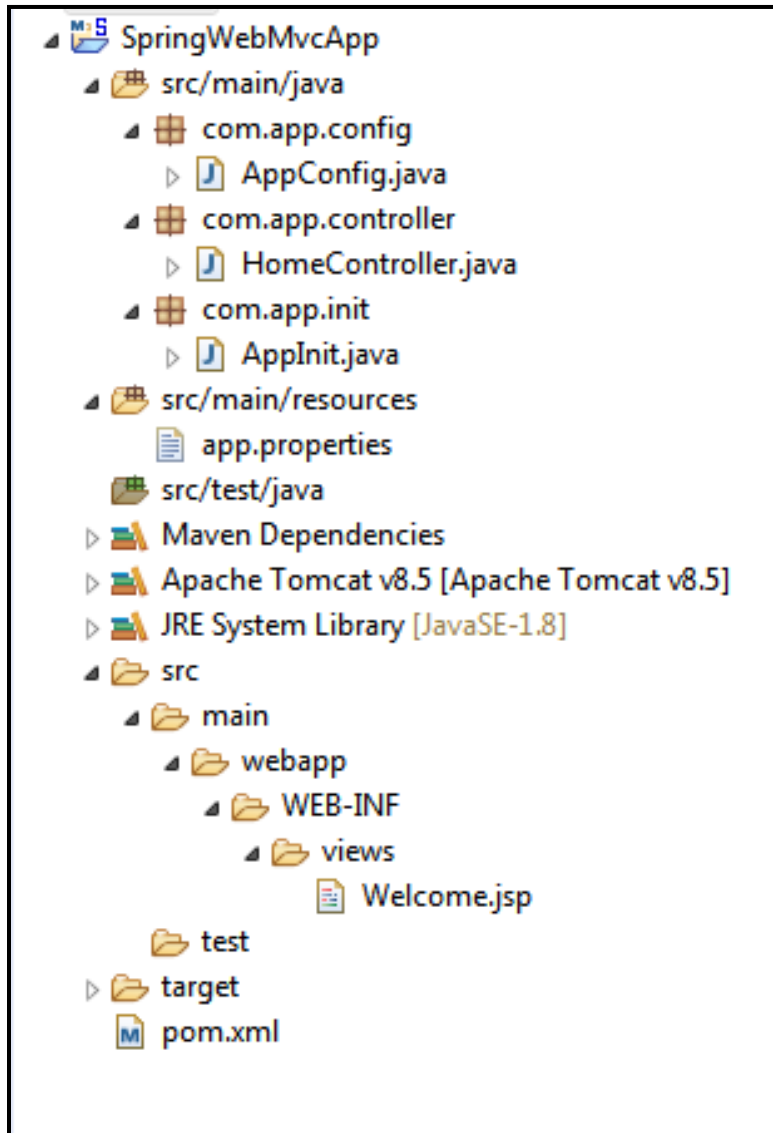
```xml
        </dependency>
    </dependencies>

    <build>

        <plugins>
            <plugin>

    <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-compiler-
plugin</artifactId>
                <version>3.8.1</version>
                <configuration>
                    <source>1.8</source>
                    <target>1.8</target>
                </configuration>
            </plugin>

            <plugin>
                <artifactId>maven-war-plugin</artifactId>
                <version>2.4</version>
                <configuration>

    <failOnMissingWebXml>false</failOnMissingWebXml>
                </configuration>
            </plugin>
        </plugins>

    </build>
```

app.properties:-

```
spring.mvc.prefix=/WEB-INF/views/
spring.mvc.suffix=.jsp
```

AppConfig.java

```java
package com.app.config;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.ComponentScan;
import org.springframework.context.annotation.Configuration;
import org.springframework.context.annotation.PropertySource;
import org.springframework.core.env.Environment;
import org.springframework.web.servlet.config.annotation.EnableWebMvc;
import org.springframework.web.servlet.view.InternalResourceViewResolver;

@Configuration
@PropertySource("classpath:app.properties")
@ComponentScan("com.app")
@EnableWebMvc
public class AppConfig {
    @Autowired
    private Environment env;
```

```java
    @Bean
    public InternalResourceViewResolver vr() {
        InternalResourceViewResolver v=new
InternalResourceViewResolver();
        v.setPrefix(env.getProperty("spring.mvc.prefix"));
        v.setSuffix(env.getProperty("spring.mvc.suffix"));
        return v;
    }
}
```

AppInit.java

```java
package com.app.init;

import
org.springframework.web.servlet.support.AbstractAnnotationConfigDispatcherServletInitializer;

import com.app.config.AppConfig;

//web.xml
public class AppInit extends
AbstractAnnotationConfigDispatcherServletInitializer{

    @Override
    protected Class<?>[] getRootConfigClasses() {
        return new Class[] {AppConfig.class};
    }

    @Override
    protected Class<?>[] getServletConfigClasses() {
        return null;
    }
```

```java
    @Override
    protected String[] getServletMappings() {
        return new String[] {"/"};
    }

}
```

HomeController.java

```java
package com.app.controller;

import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;

@Controller
public class HomeController {
    //URL
    @RequestMapping("/reg")
    public ModelAndView show() {
        ModelAndView m=new ModelAndView();
        m.setViewName("Welcome");
        return m;
    }
}
```

Welcome.jsp

```html
<html>
<body>
 <h2>welcome to Spring WEB MVC!</h2>
</body>
</html>
```