# **Building An Application**

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# Prerequisites



## **Java**



## Maven



**Spring STS** 



## **Tomcat**



# **What We Are Building**



# **App Features**

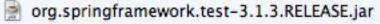
- Allow for entering minutes exercising
- Show total minutes
- Set goal for the day
- Notify when goal is reached



# **Getting Spring MVC**

#### Spring Framework:

- http://www.springsource.org/spring-framework
- Can't download just the web resources
- 21 different jars that it downloads



org.springframework.transaction-3.1.3.RELEASE.jar

org.springframework.web-3.1.3.RELEASE.jar

org.springframework.web.portlet-3.1.3.RELEASE.jar

org.springframework.web.servlet-3.1.3.RELEASE.jar

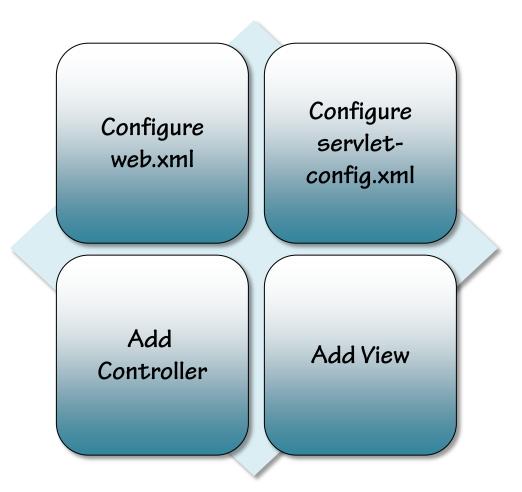
org.springframework.web.struts-3.1.3.RELEASE.jar



- Using Maven we only need three dependencies
- Dependencies:
  - spring-webmvc
  - servlet-api
  - □ jstl

```
<dependency>
   <groupId>org.springframework</groupId>
   <artifactId>spring-webmvc</artifactId>
   <version>3.1.2.RELEASE
</dependency>
<dependency>
   <groupId>javax.servlet
   <artifactId>servlet-api</artifactId>
   <version>2.5</version>
   <scope>provided</scope>
</dependency>
<dependency>
   <groupId>javax.servlet
   <artifactId>istl</artifactId>
   <version>1.2</version>
   <scope>provided</scope>
</dependency>
```

# **Spring MVC Configuration**



## **Tomcat**

FitnessTracker.war

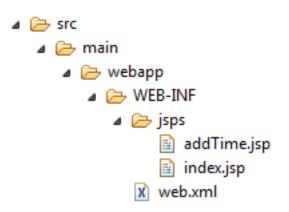
Tomcat Web Container



**Apache Tomcat** 

# STÂNDÂRDS

### **Views**



InternalResourceViewResolver

addTime.jsp = http://localhost:8080/fitness/addTime

## **Controllers**

- Annotation Based
  - @Controller
- Named whatever you want
  - Typically named around business domain
- Path set using annotation
  - @RequestMapping
- TimeController.java



# **Examples**

- com.fitness.controllers.TimeController
  - http://localhost:8080/fitness/time
  - http://localhost:8080/fitness/addTime
  - http://localhost:8080/fitness/updateTime



## **Namespace**

```
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:p="http://www.springframework.org/schema/p"
   xmlns:aop="http://www.springframework.org/schema/aop"
   xmlns:context="http://www.springframework.org/schema/context"
   xmlns:jee="http://www.springframework.org/schema/jee"
   xmlns: tx= "http://www.springframework.org/schema/tx"
   xmlns:mvc= http://www.springframework.org/schema/mvc"
    xsi:schemaLocation="
   http://www.springframework.org/schema/aop/http://www.springframework.org/schema/aop/spring-aop-3.0.5.xsd
   http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans-3.0.xsd
   http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-3.0.xsd
   http://www.springframework.org/schema/jee http://www.springframework.org/schema/jee/spring-jee-3.0.xsd
   http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/spring-tx-3.0.xsd
    http://www.sprinaframework.ora/schema/task http://www.sprinaframework.ora/schema/task/sprina-task.xsd
    http://www.springframework.org/schema/mvc http://www.springframework.org/schema/mvc/spring-mvc-3.0.xsd">
```

```
<mvc:annotation-driven />
<context:component-scan base-package="com.training.controller"/>
```

<bean class="org.springframework.web.servlet.view.BeanNameViewResolver"/>