Building An Application

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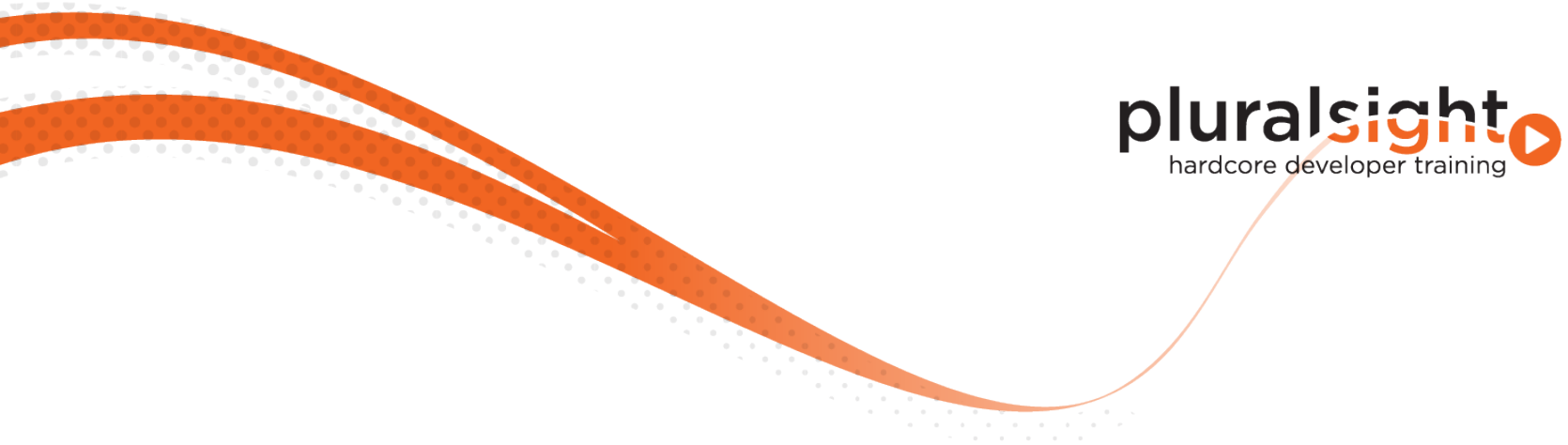


pluralsight

hardcore developer training

Prerequisites

Java

Maven

maven

Spring STS

springsource
TOOLSUITE

Tomcat

Apache Tomcat

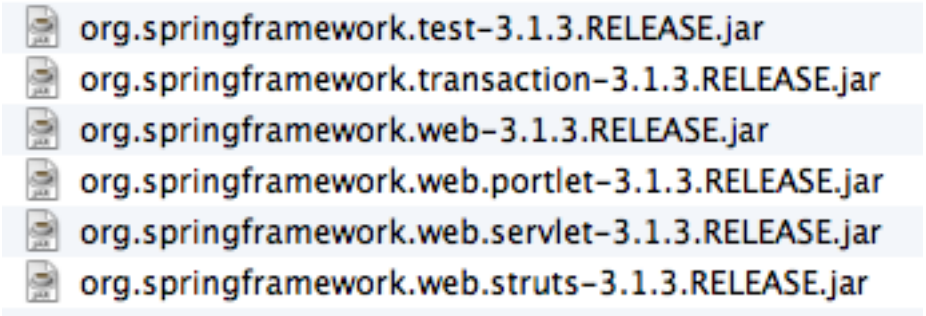
What We Are Building

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



Maven

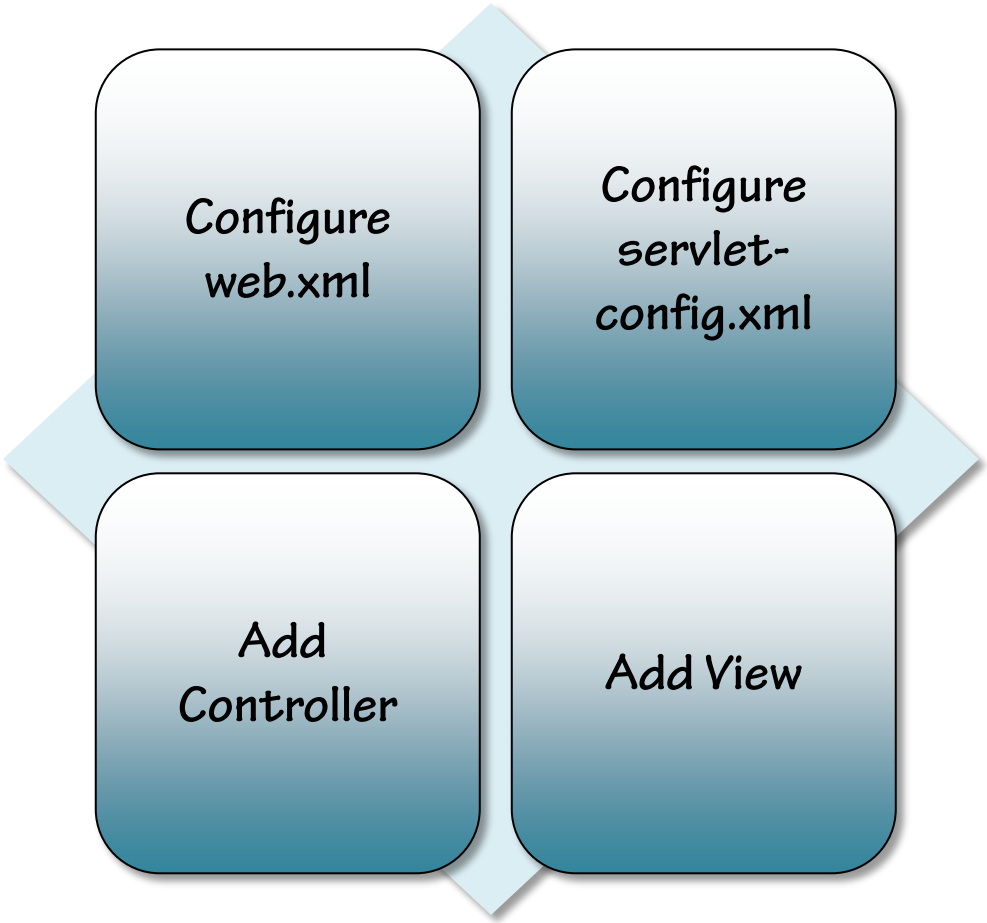
- **Using Maven we only need three dependencies**
- **Dependencies:**
  - spring-webmvc
  - servlet-api
  - jstl

```
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>3.1.2.RELEASE</version>
</dependency>

<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>servlet-api</artifactId>
    <version>2.5</version>
    <scope>provided</scope>
</dependency>

<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
    <scope>provided</scope>
</dependency>
```

Spring MVC Configuration



Tomcat

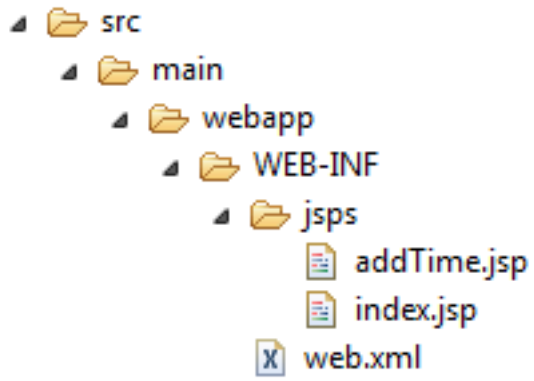
FitnessTracker.war

Tomcat
Web Container

Apache Tomcat

STANDARDS

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"
    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/spring-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.springframework.org/schema/task http://www.springframework.org/schema/task/spring-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"/>
```