

# Configuring Your Environment for Spring MVC Application Development

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# Overview



What is Spring MVC?

Spring Architecture

Advantages of Spring MVC

Spring MVC Configuration



# What is Spring MVC?

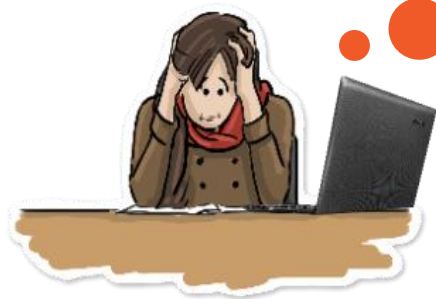
It is a framework for building Web Applications in Java

Learning is very easy

Flexible when compared with other web development models

Can leverage the features of Core Spring

- Inversion of Control
- Dependency Injection



We have  
Servlets and  
JSP



# Advantages of Spring MVC



**Based on Model-View-Controller Architecture**

**Leverage a set of reusable UI components**

**Help manage application state for web requests**

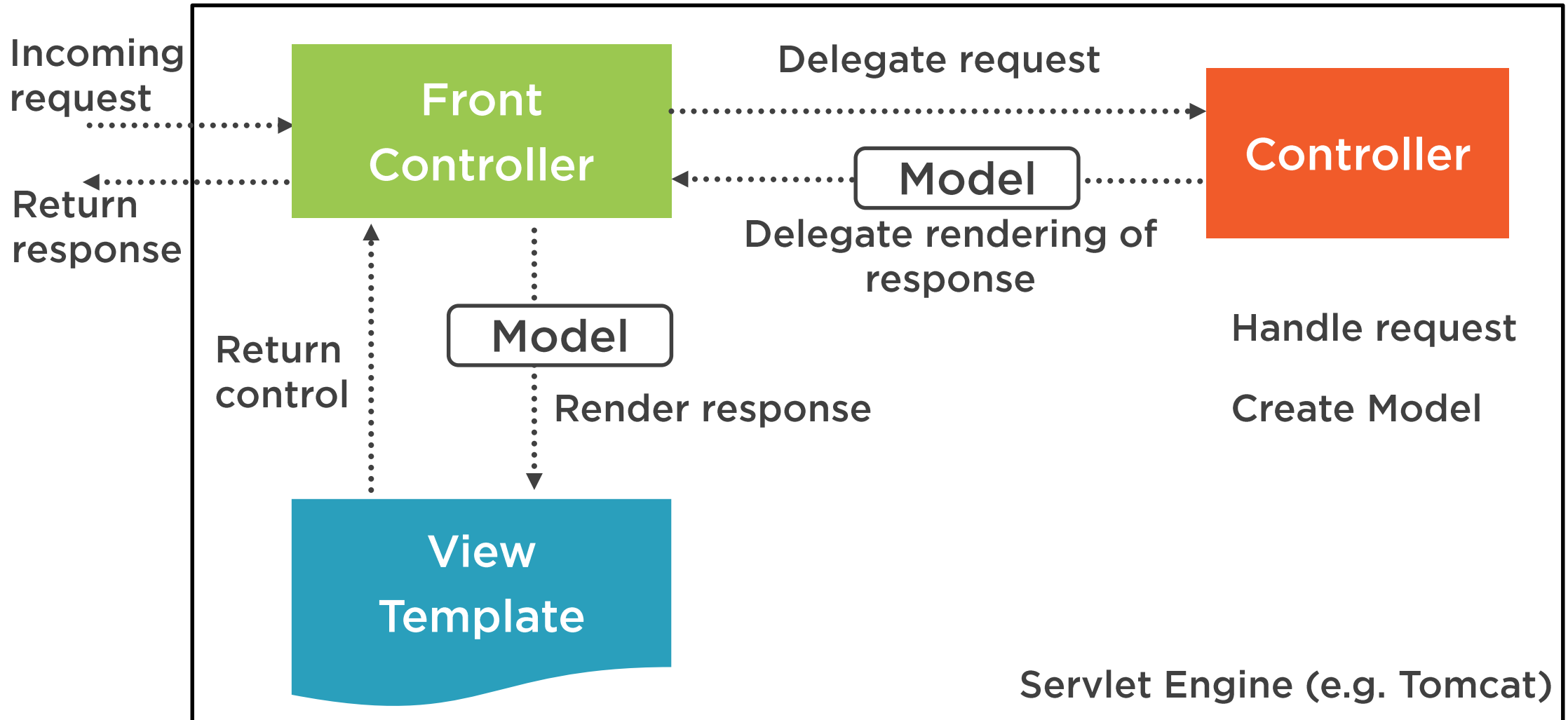
**Process form data, validation, conversion**

**Flexible configuration for the View layer**

- Supports JSP
- Thymeleaf
- Velocity
- Freemaker



# Spring MVC Process Flow



# Spring MVC Configuration Overview

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# Spring MVC Configuration Process

**Configure Spring MVC  
DispatcherServlet**

**Add entries to Spring  
Configuration File**



# Step 1: Configuring Spring MVC DispatcherServlet in web.xml

```
<servlet>
```

```
    <servlet-name>SpringController</servlet-name>
```

```
    <servlet-class>
```

```
        org.springframework.web.servlet.DispatcherServlet
```

```
    </servlet-class>
```

```
    <init-param>
```

```
        <param-name>contextConfigLocation</param-name>
```

```
        <param-value>/WEB-INF/bankAppContext.xml</param-value>
```

```
    </init-param>
```

```
    <load-on-startup>1</load-on-startup>
```

```
</servlet>
```





# Step 1: Configuring Spring MVC DispatcherServlet in web.xml

```
<web-app ... >
    <servlet>
        ...
    </servlet>
    <servlet-mapping>
        <servlet-name>SpringController</servlet-name>
        <url-pattern>/</url-pattern>
    </servlet-mapping>
</web-app>
```



## Step 2: Adding Entries to Spring Config. File

```
<beans xmlns="http://www.springframework.org/schema/beans"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:context="http://www.springframework.org/schema/context"
        xmlns:mvc="http://www.springframework.org/schema/mvc"
        xsi:schemaLocation="http://www.springframework.org/schema/beans
        http://www.springframework.org/schema/beans/spring-beans-3.2.xsd
        http://www.springframework.org/schema/mvc
        http://www.springframework.org/schema/mvc/spring-mvc-3.2.xsd
        http://www.springframework.org/schema/context
        http://www.springframework.org/schema/context/spring-context-3.2.xsd">

</bean>
```



# Step 2: Adding Entries to Spring Config. File

```
<beans ...>
```

```
    <context:component-scan base-package="com.ps.bankapp" />
```

```
    <mvc:annotation-driven />
```

```
    <bean
```

```
        id="viewResolver"
```

```
        class="org.springframework.web.servlet.view.InternalResourceViewResolver">
```

```
            <property name="prefix" value="/views/" />
```

```
            <property name="suffix" value=".jsp" />
```

```
    </bean>
```

```
</beans>
```



# Demo: Spring MVC Configuration

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# Summary



What is Spring MVC?

Spring Architecture

Spring MVC Configuration

