

Spring MVC

Behind the Scenes



Components of a Spring MVC Application

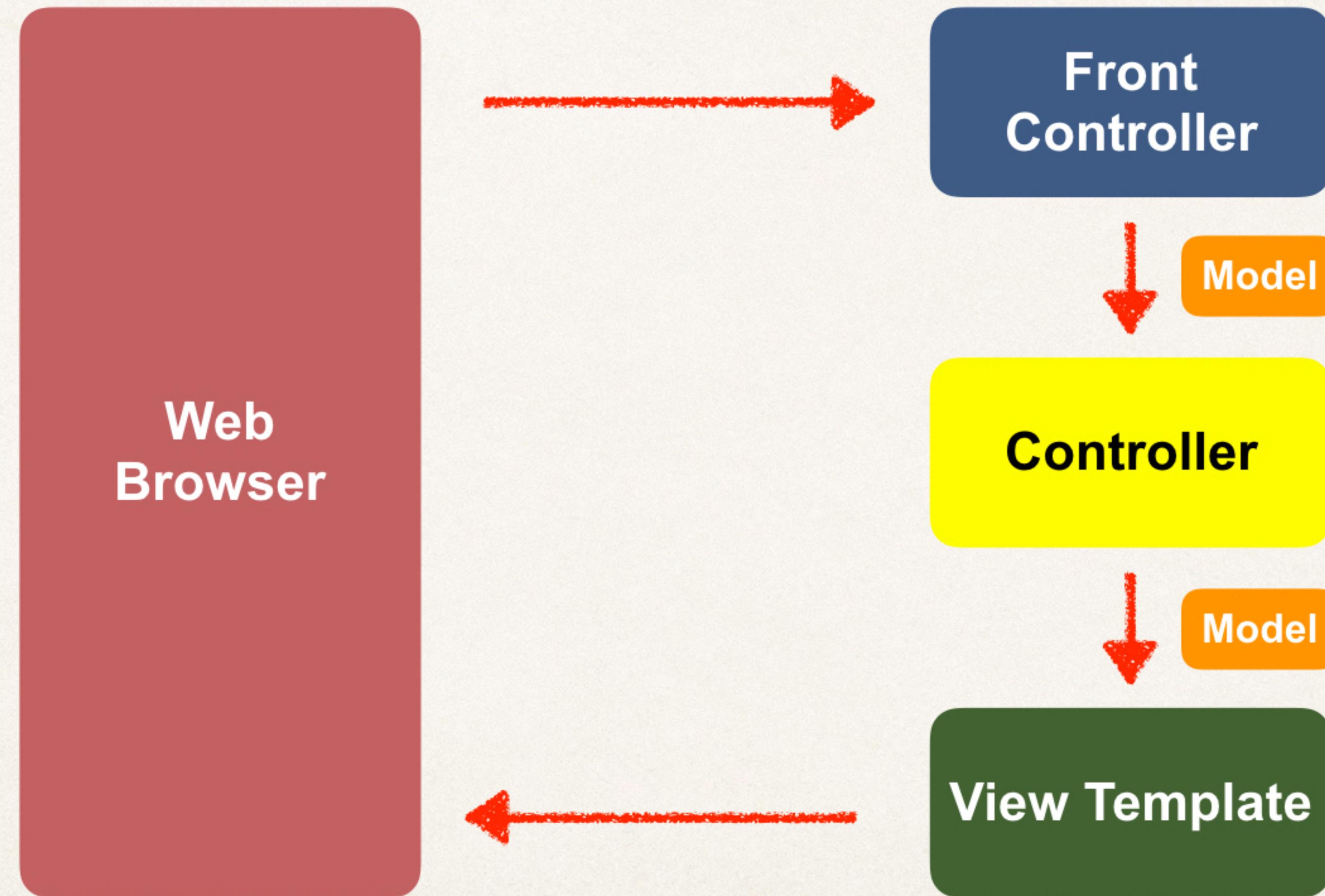
- A set of web pages to layout UI components
- A collection of Spring beans (controllers, services, etc...)
- Spring configuration (XML, Annotations or Java)

Web
Pages

Beans

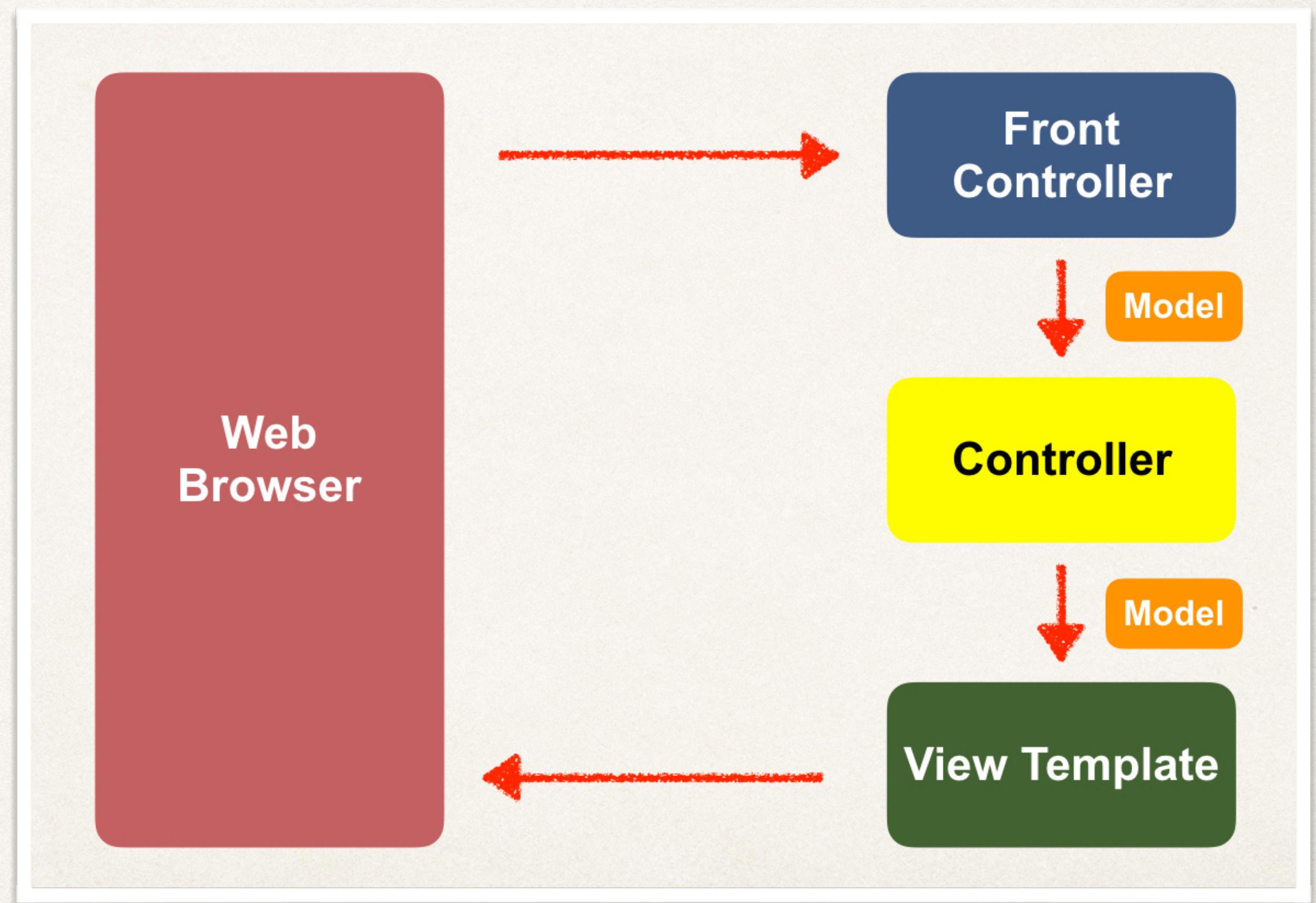
Spring
Configuration

How Spring MVC Works Behind the Scenes



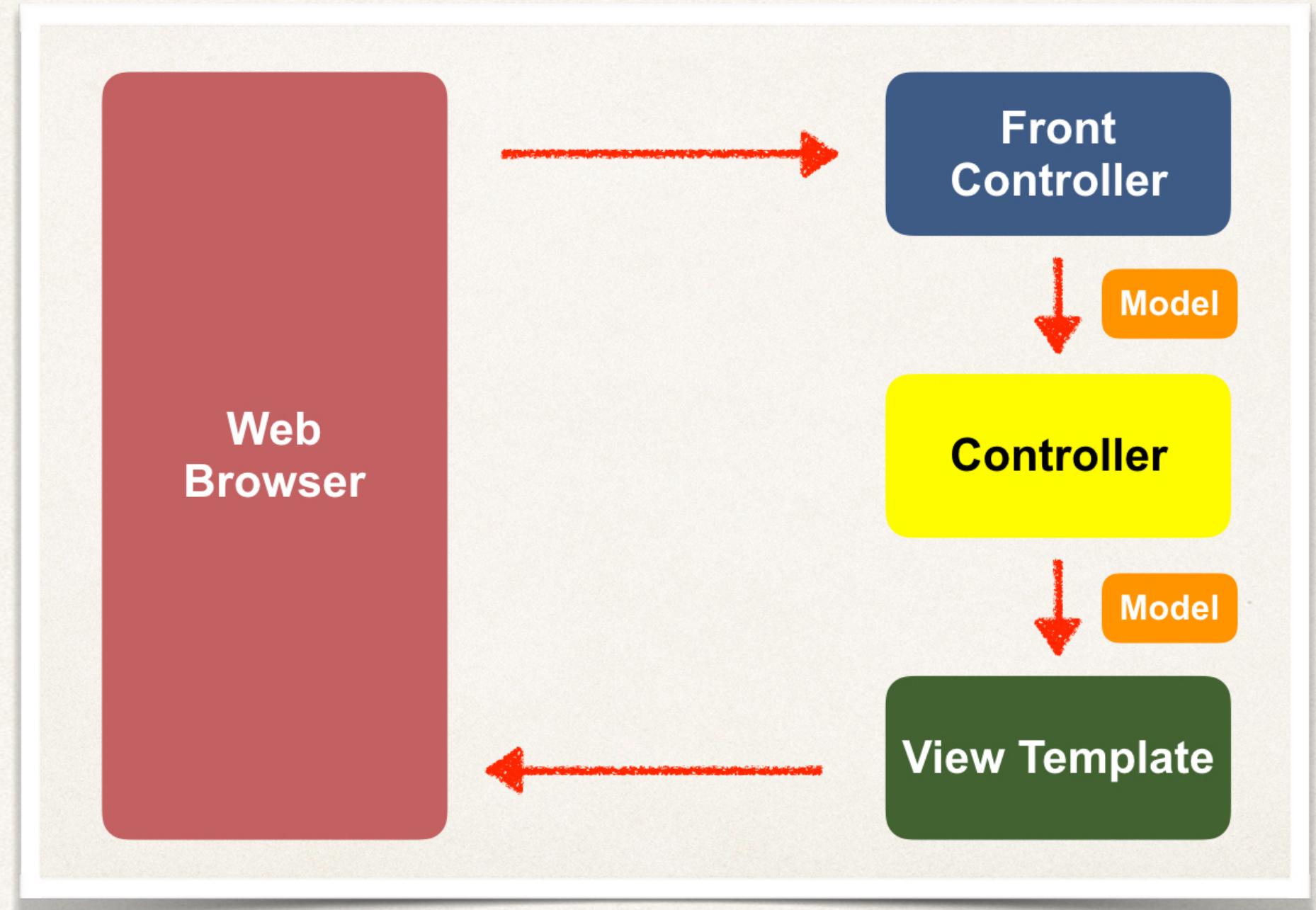
Spring MVC Front Controller

- Front controller known as **DispatcherServlet**
 - Part of the Spring Framework
 - Already developed by Spring Dev Team
- You will create
 - Model objects (orange)
 - View templates (dark green)
 - Controller classes (yellow)



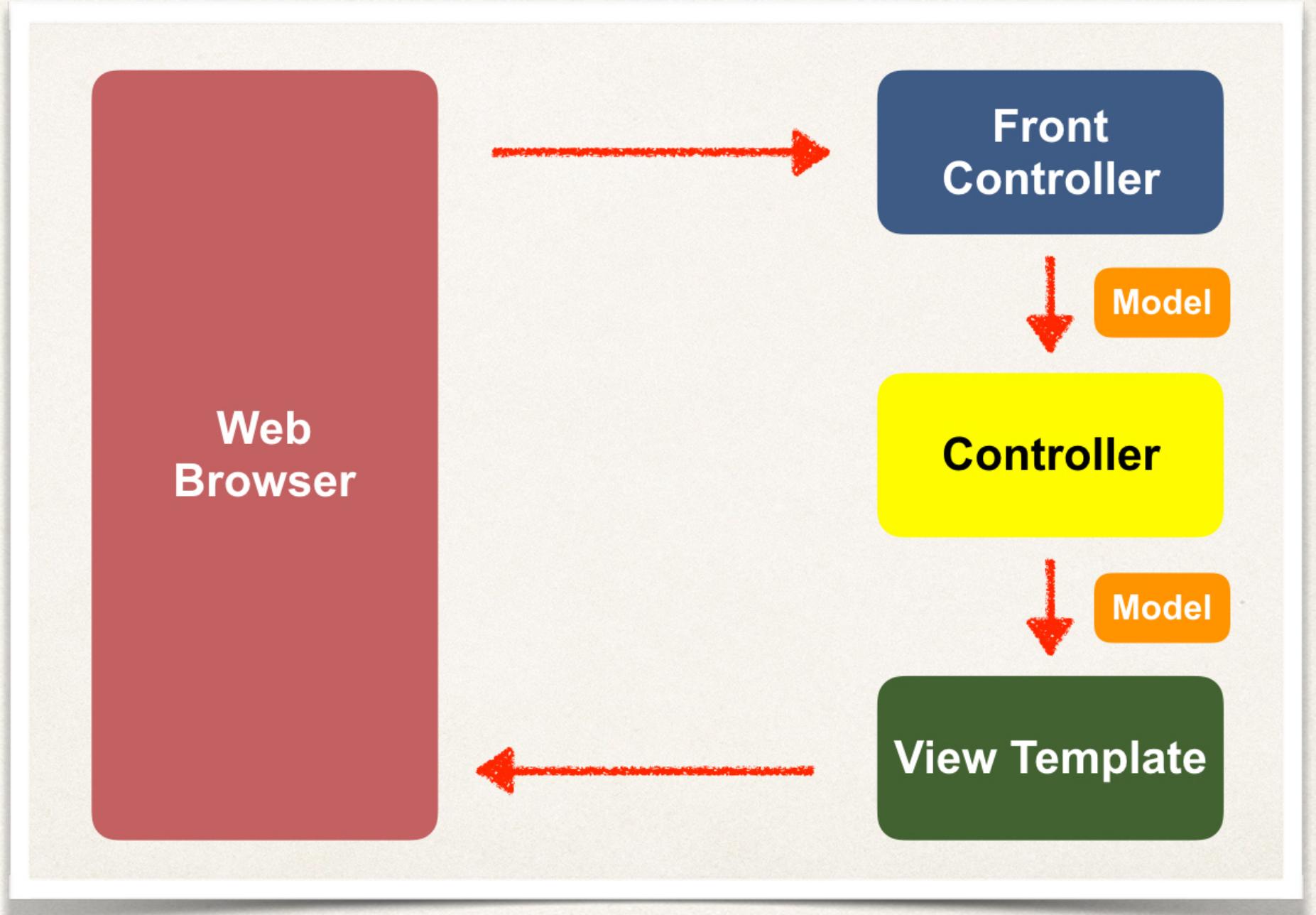
Controller

- Code created by developer
- Contains your business logic
 - Handle the request
 - Store / retrieve data (db, web service...)
 - Place data in model
- Send to appropriate view template



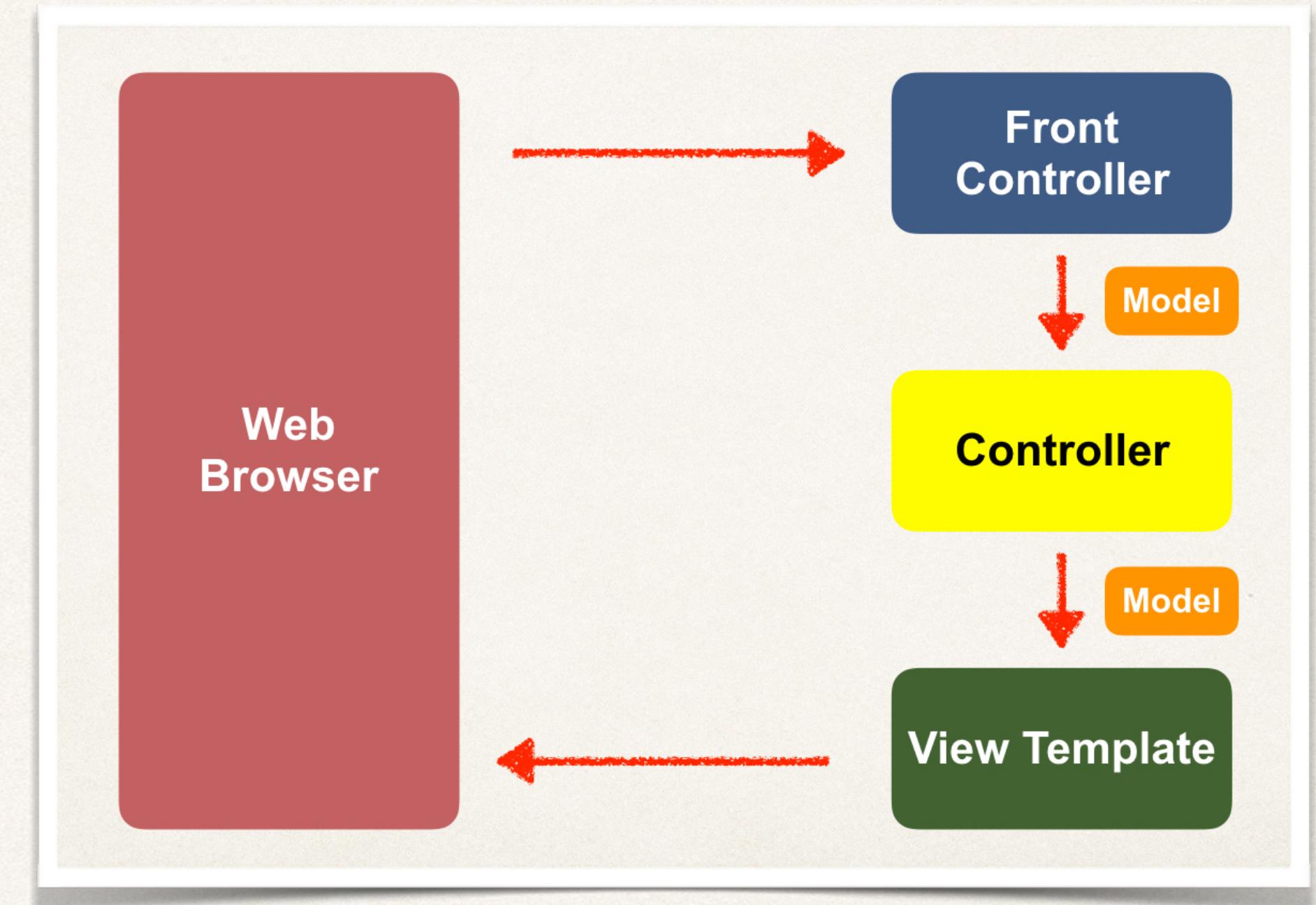
Model

- Model: contains your data
- Store/retrieve data via backend systems
 - database, web service, etc...
 - Use a Spring bean if you like
- Place your data in the model
 - Data can be any Java object/collection



View Template

- Spring MVC is flexible
 - Supports many view templates
- Most common is JSP + JSTL
- Developer creates a page
 - Displays data



JSP: Java Server Pages

JSTL: JSP Standard Tag Library

View Template (more)

- Other view templates supported
 - Thymeleaf, Groovy
 - Velocity, Freemarker, etc...
- For details, see:


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