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# SPRING

MVC





# WEB

- \* 1957 년 ARPA 설치
- \* 1960 년대 ARPANET
- \* 1970 년 ARPANET 미국 대륙 횡단 연결 실현
- \* 1972 년 email 레이 톰린슨 @
- \* 1974 년 인터넷 탄생 (TCP/IP)
- \* 1989 년 ARPANET 종말 -> 웹(WWW) 탄생
- \* 1993 년 모자이크(넷스케이프) 첫 브라우저
- \* 1996 년 Window95 IE
- \* 1998 년 구글 탄생
- \* 2003 년 web 2.0



# 1995

- \* Client Server Computing - internet based

- \* Windows 95 탄생

  - \* Visual Basic 5.0 (1997)

  - \* Visual C++ 5.0 (1997)

  - \* Delphi

- \* Web Application 의 태동

  - \* CGI (1993)

  - \* Perl5 (1994)

  - \* Java Ver 1.0

  - \* JavaScript

  - \* PHP

  - \* Ruby 0.95

  - \* VBScript

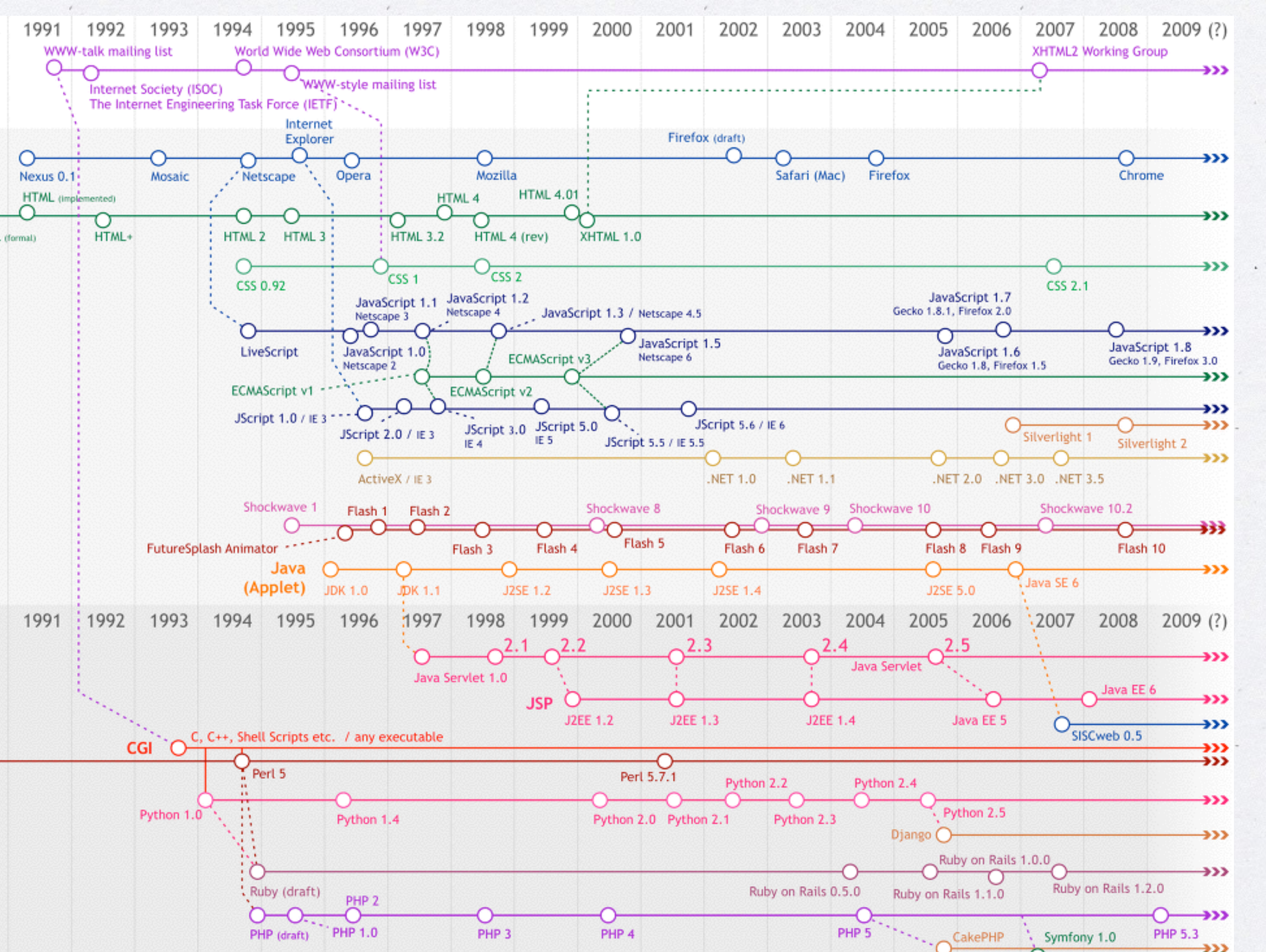
  - \* HTML 3

    - \* 브라우저 전쟁 ( 넷스케이프 vs IE )

  - \* Flash 1 (1996)

- \* UML 탄생





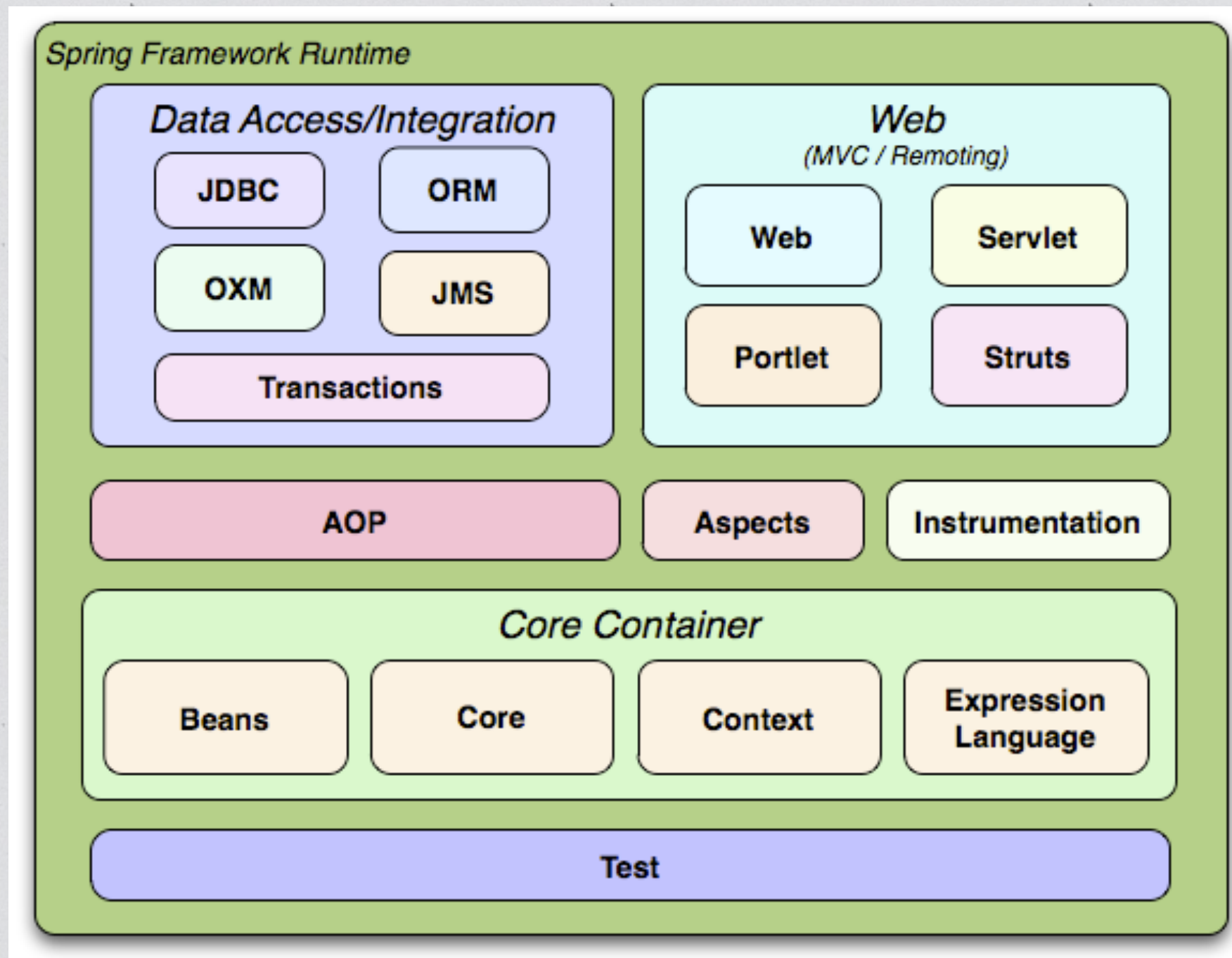


# Servlet

- \* javax.servlet.Servlet (<http://docs.oracle.com/javase/1.4/api/javax/servlet/Servlet.html?is-external=true>)
- \* web.xml
- \* JSP

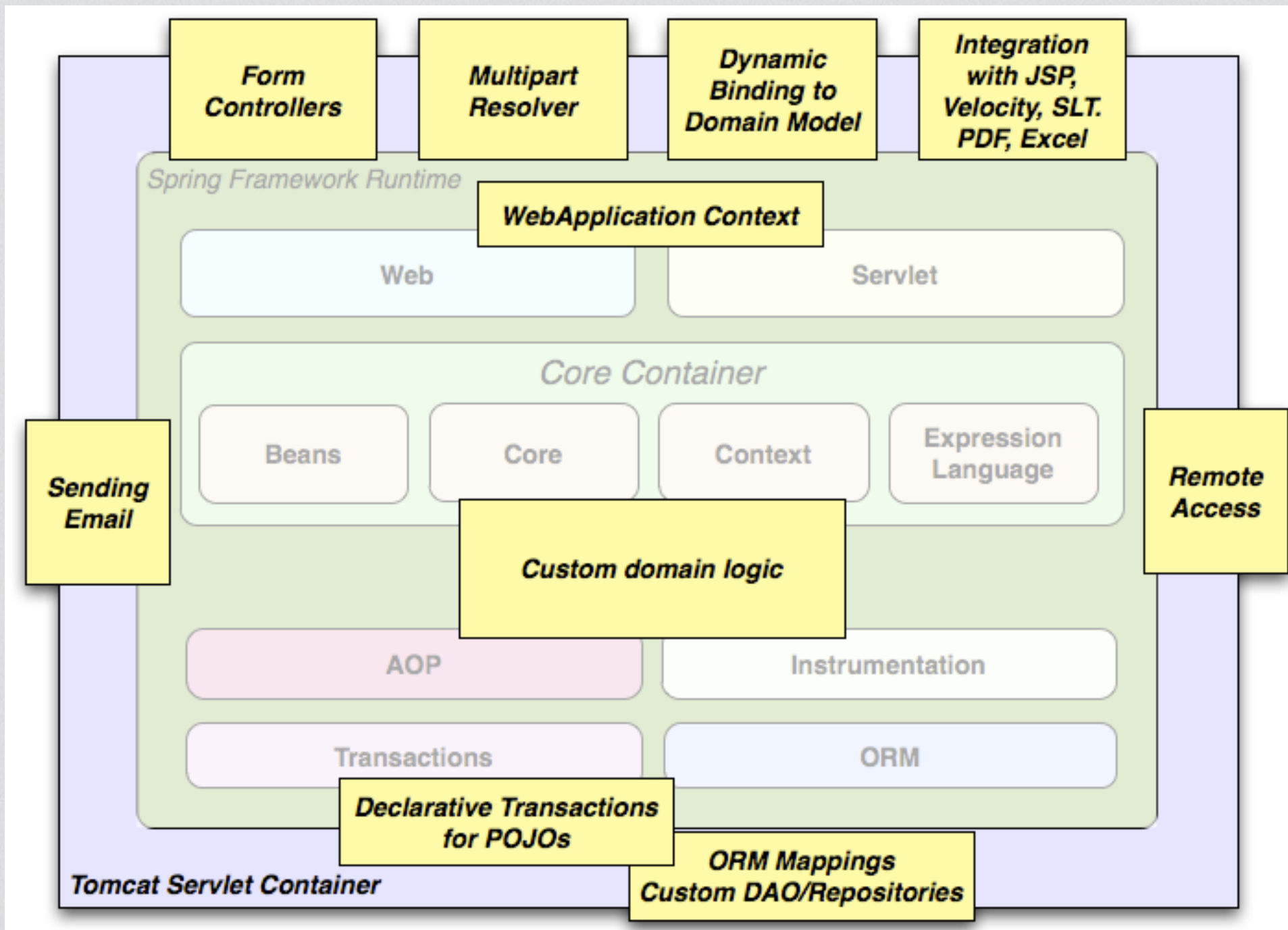


# Spring Framework



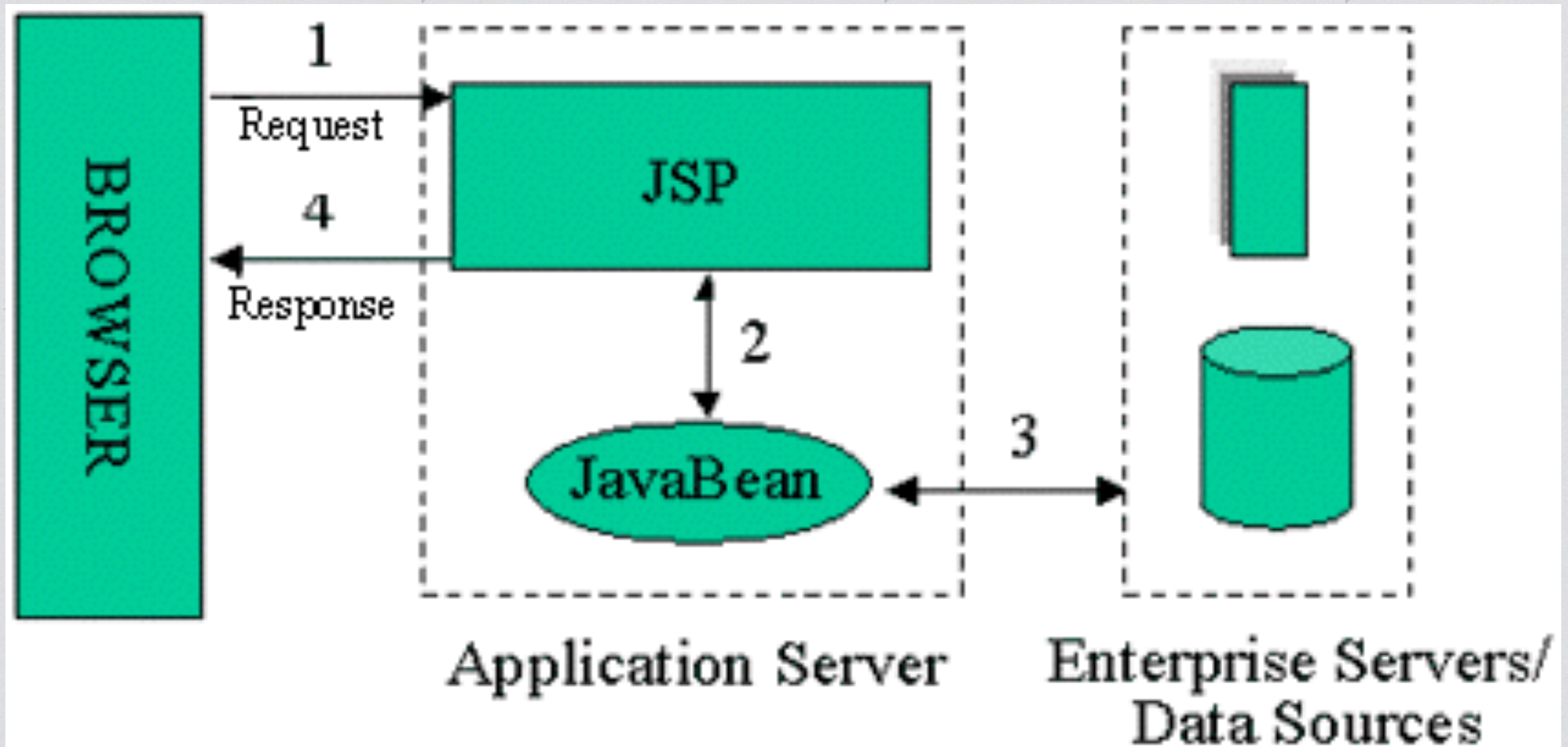


# Spring Web Application



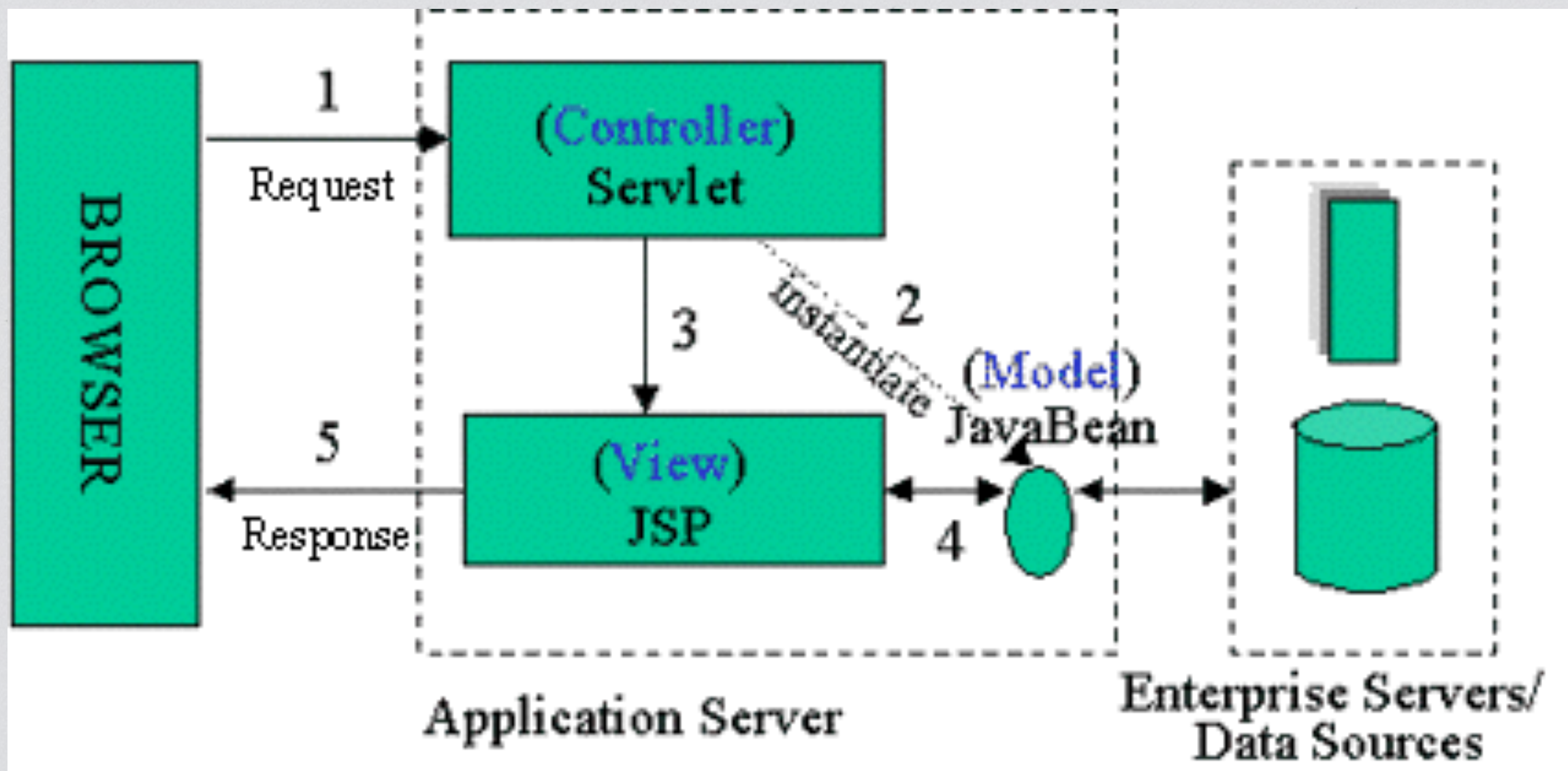


# MODEL I



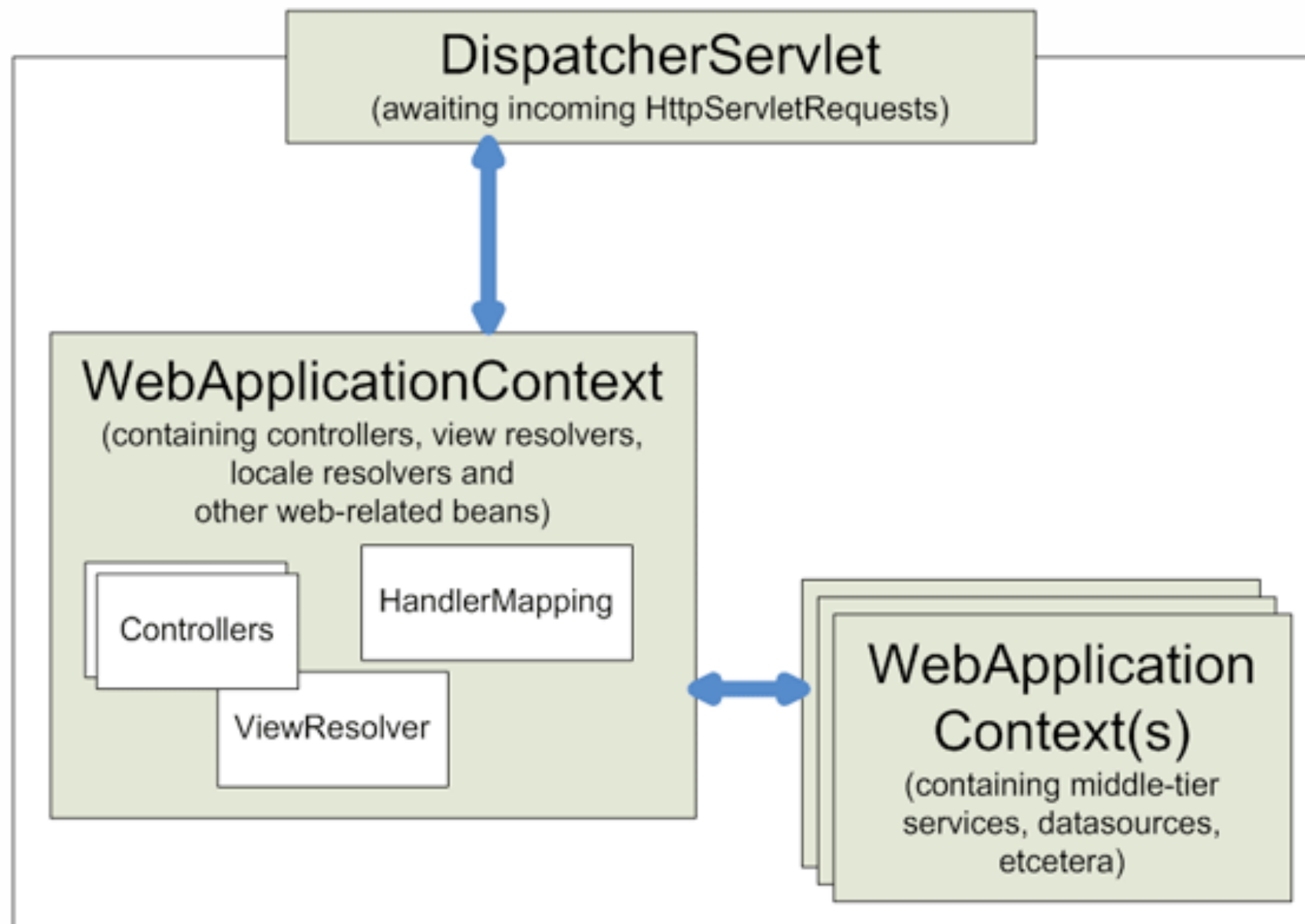


# MODEL II



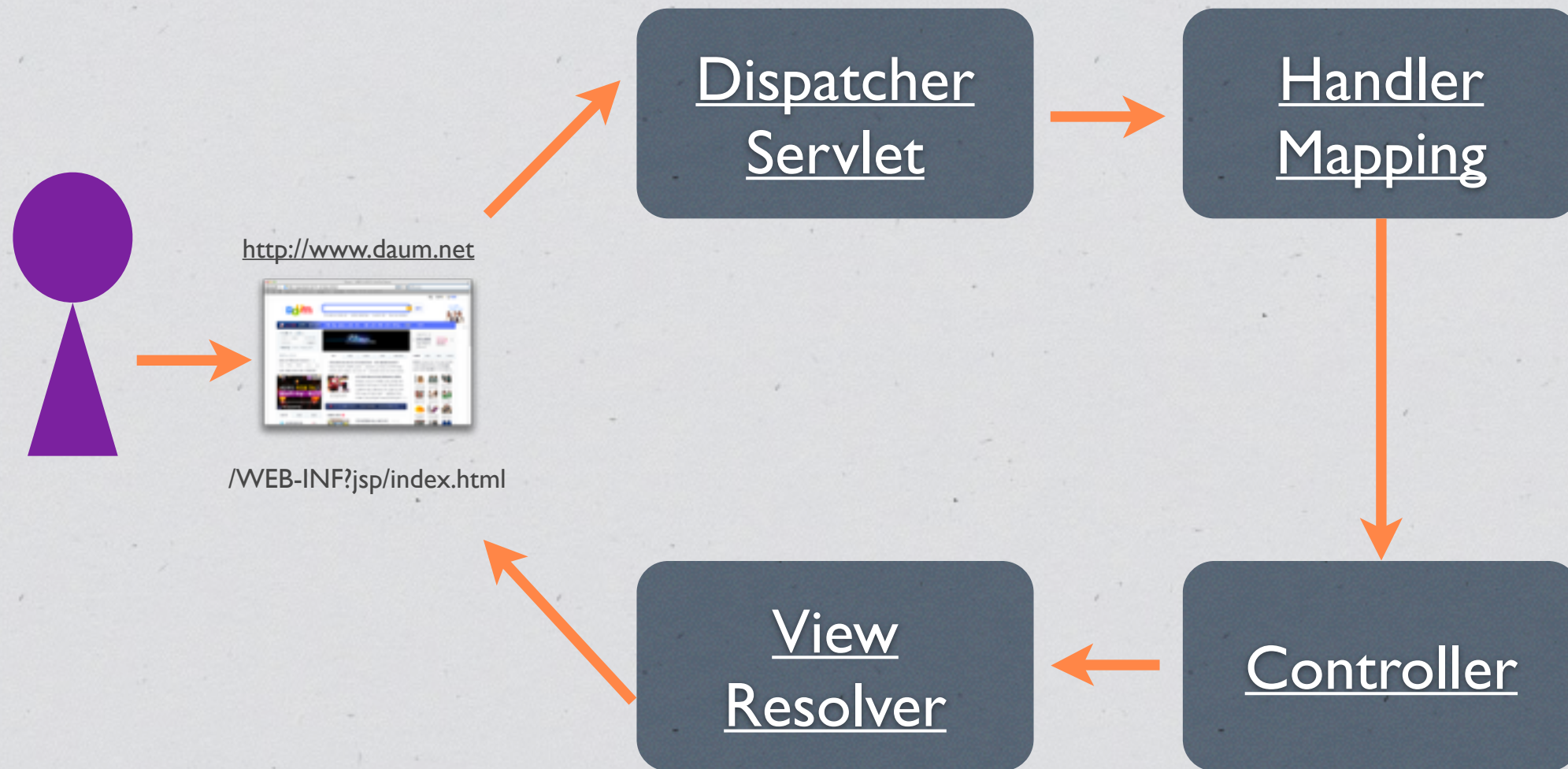


# Spring MVC





# Spring MVC LifeCycle





# Handler Mapping

- \* BeanNameUrlHandlerMapping (Default)
- \* ControllerBeanNameHandlerMapping
- \* ControllerClassNameHandlerMapping
- \* SimpleUrlHandlerMapping
- \* DefaultAnnotationHandlerMapping (Default)



# Handler Adapter

- \* SimpleServletHandlerAdapter
- \* HttpRequestHandlerAdapter (Default)
- \* SimpleControllerHandlerAdapter (Default)
- \* AnnotationMethodHandlerAdapter (Default)



# View Resolver

- \* InternalResourceViewResolver
- \* VelocityViewResolver
- \* FreeMarkerViewResolver
- \* ResourceBundleViewResolver
- \* XmlViewResolver
- \* BeanNameViewResolver
- \* ContentNegotiatingViewResolver
- \* HandlerExceptionResolver
- \* MultipartResolver



# View

- \* InternalResourceView
- \* JstlView
- \* RedirectView
- \* VelocityView
- \* FreeMarkerView
- \* MarshallingView
- \* AbstractExcelView
- \* AbstractPdfView
- \* MappingJacksonJsonView
- \* AbstractAtomFeedView
- \* AbstractRssFeedView
- \* XsltView
- \* TilesView
- \* AbstractJasperReportsView



# Interceptor

- \* preHandle

- \* postHandle

- \* afterCompletion



# <annotation-driven/>

Support for Spring 3's Type [ConversionService](#) in addition to JavaBeans PropertyEditors during Data Binding. A `ConversionService` instance produced by the `org.springframework.format.support.FormattingConversionServiceFactoryBean` is used by default. This can be overridden by setting the `conversion-service` attribute.

Support for [formatting](#) Number fields using the `@NumberFormat` annotation

Support for [formatting](#) Date, Calendar, Long, and Joda Time fields using the `@DateTimeFormat` annotation, if Joda Time 1.3 or higher is present on the classpath.

Support for [validating](#) @Controller inputs with `@Valid`, if a JSR-303 Provider is present on the classpath. The validation system can be explicitly configured by setting the `validator` attribute.

Support for reading and writing XML, if JAXB is present on the classpath.

Support for reading and writing JSON, if Jackson is present on the classpath.



# @RequestMapping

\* Class Mapping + Method Mapping

```
@RequestMapping(value="/user/add", method=RequestMethod.GET)
```

```
@RequestMapping(value="/user/add", params="type=member")
```

```
@RequestMapping(value="/user/add", headers="content-type=text/*")
```



# @Controller (Method Param)

- \* HttpServletRequest

- \* HttpServletResponse

- \* HttpSession

- \* @PathVariable

```
@RequestMapping("/member/{membercode}/order/{orderid}")
```

```
public String method(@PathVariable("membercode") String code, @PathVariable("orderid") int orderid)
```

- \* @RequestParam

```
public String method(@RequestParam("id") int id)
```

```
public String method(@RequestParam(value="id", required=false, default="1") int id)
```



# @Controller (Method Param)

## \* @CookieValue

```
public String method(@CookieValue("id") String id)
```

## \* Map, Model, ModelMap

```
public void method(ModelMap model) {
```

```
    User user = new User(1);
```

```
    model.addAttribute(user);
```

```
}
```

## \* @ModelAttribute

```
public void method(@ModelAttribute User user)
```



# *@Controller* (Method Return)

- \* void

- \* String

  - View Name Or Redirect: Or Forward:

- \* ModelAndView

- \* Map, Model, ModelMap

- \* View