

Java EE: Java Server Pages

INTRODUCTION



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JSP Server Pages

JSP Fundamentals

JSP Built-in
Objects

Handling
Exceptions in JSP

Working with
Standard Actions

Expression
Language

JSP Standard Tag
Library & Custom
Tag



Module Overview



JSP Life Cycle

JSP Development Models



Prerequisite

Servlets



JSP Life Cycle



What is JSP ?

Java Server Pages is a technology that helps software developers to create platform independent dynamic web application rapidly based on HTML or XML document types.



JSP



Dynamic
Content

View/UI





Why we need
JSP?

Limitations of Servlets

Requires strong knowledge of Java

Writing HTML code will be difficult

Need to recompile & redeploy



Advantages Of Using JSP

Not mandatory to have strong programming knowledge of Java

Writing HTML code is easy

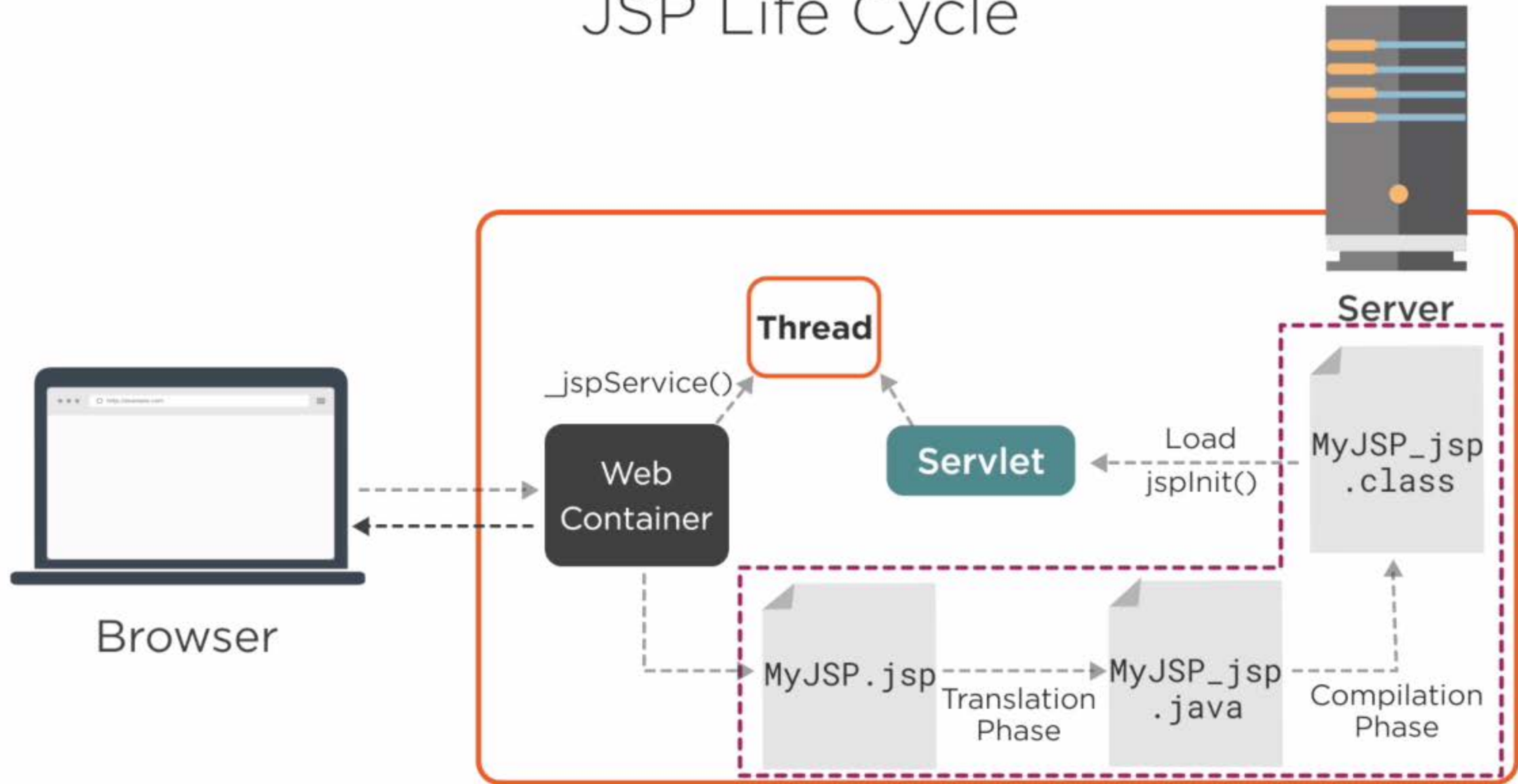
Modifications are recognized

Programs can use standard tags

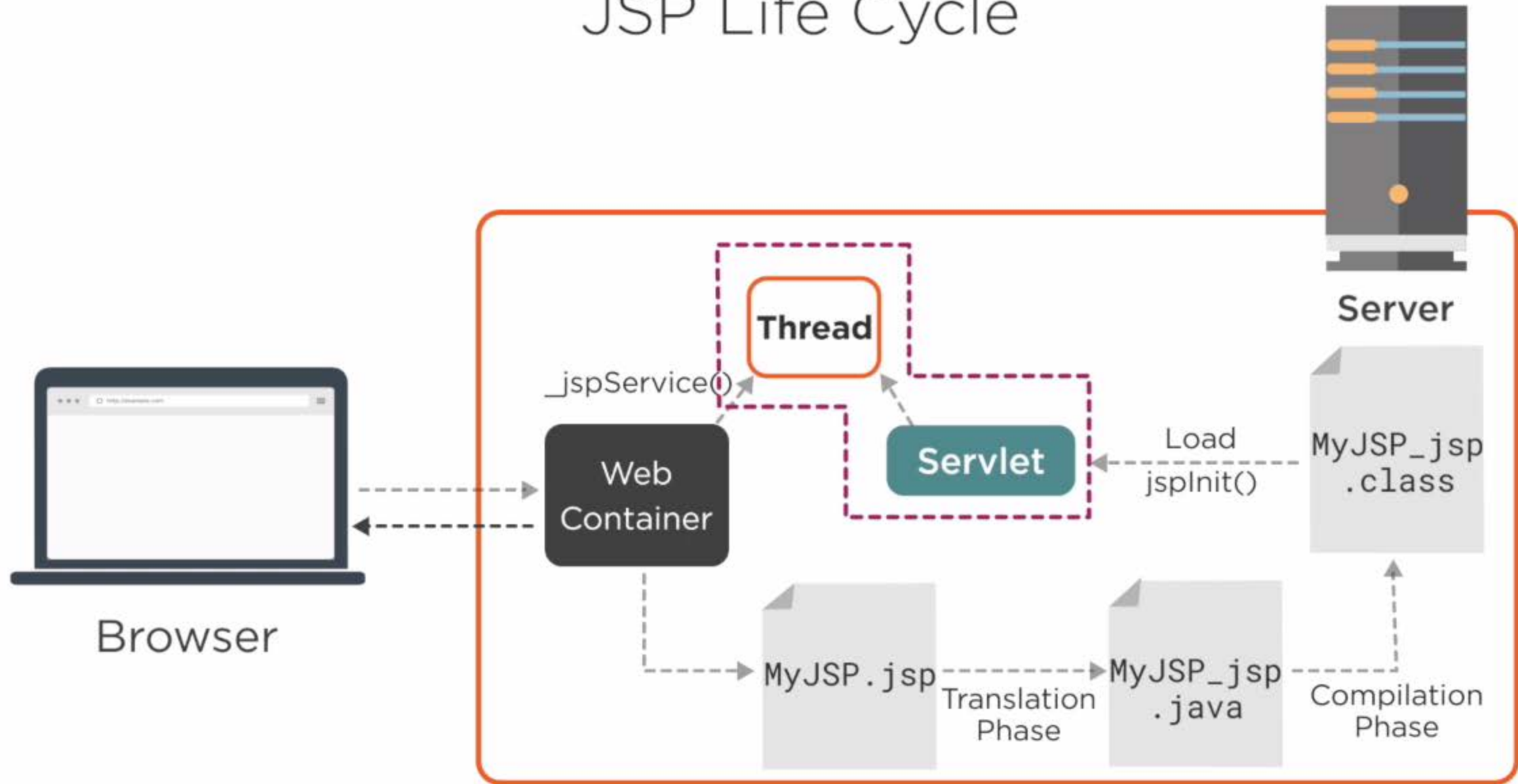
Easy to learn, implement and maintain



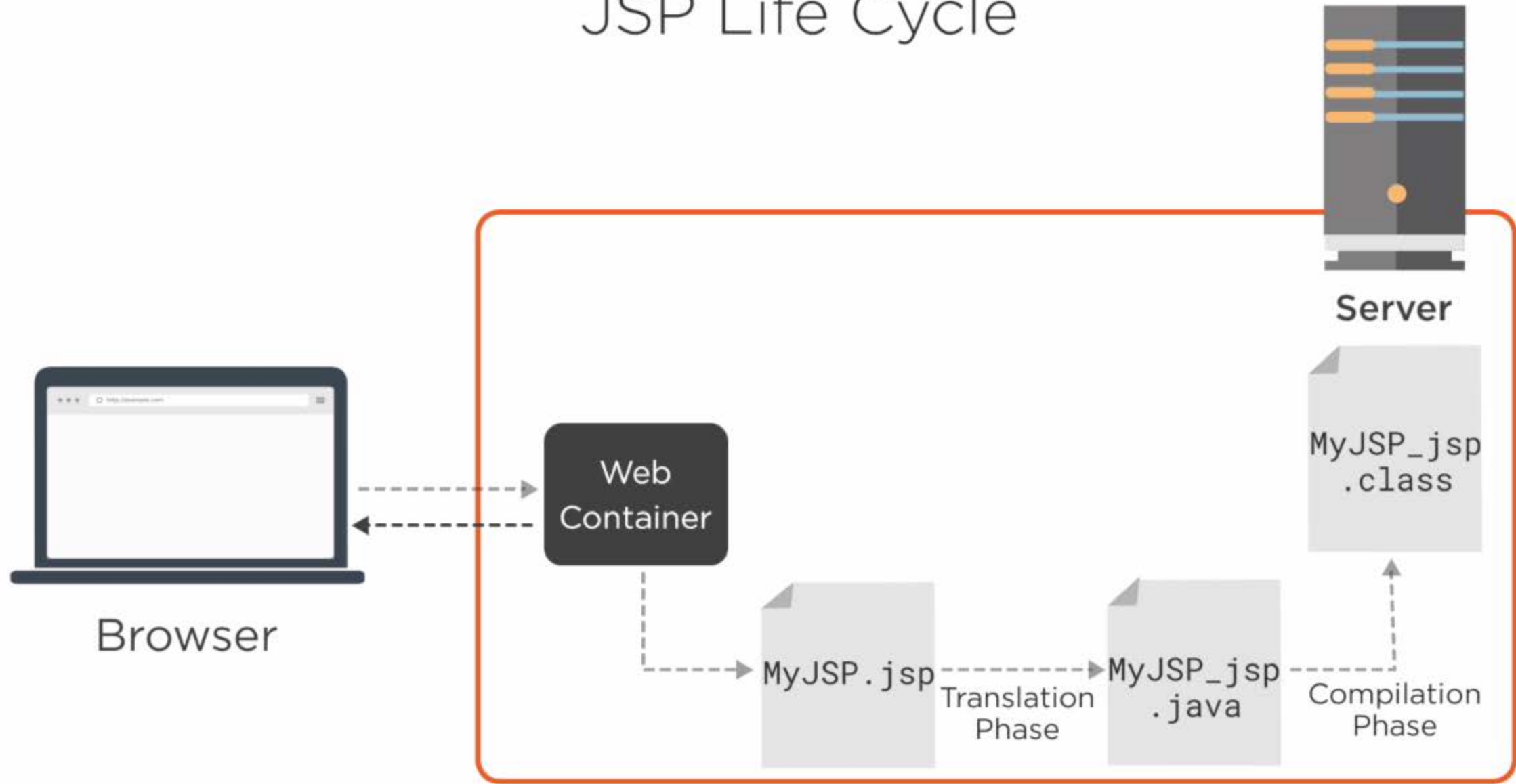
JSP Life Cycle



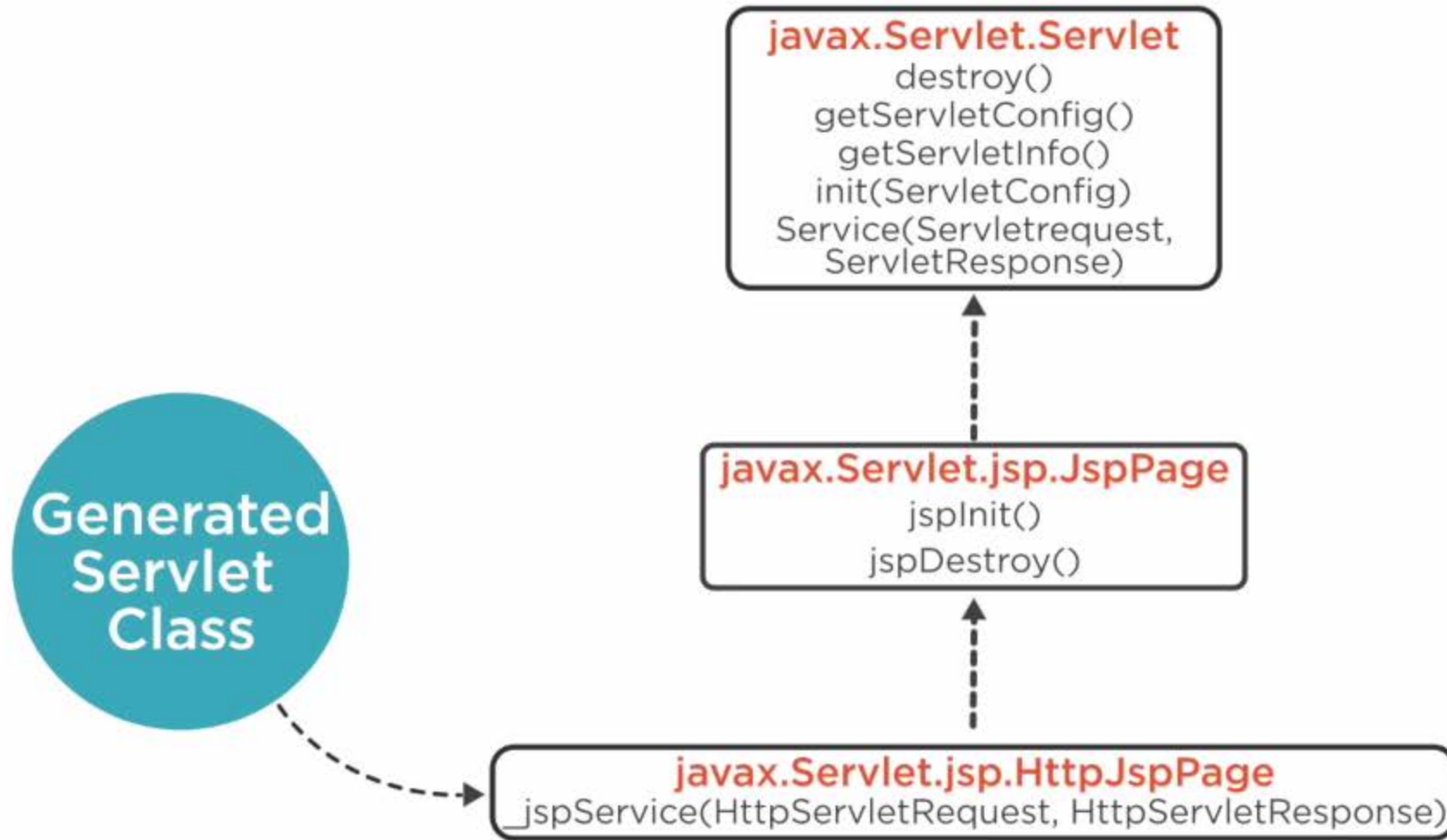
JSP Life Cycle



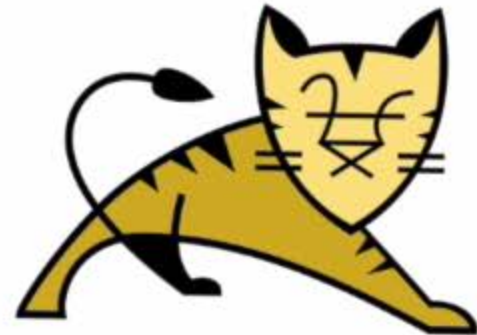
JSP Life Cycle



JSP Life Cycle Methods



JSP Life Cycle Methods



JSP Development Models



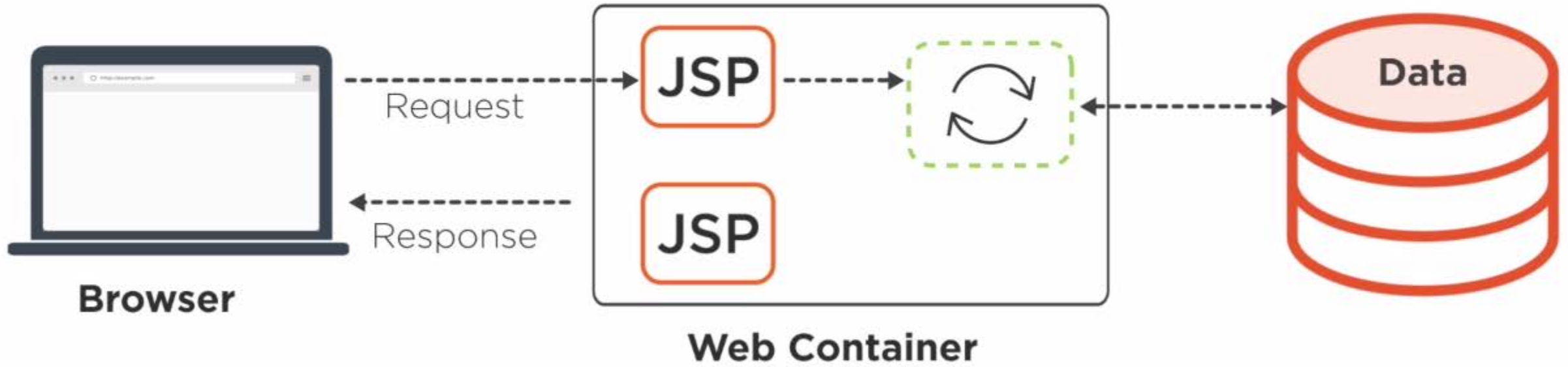
Development Models

Model 1 Architecture

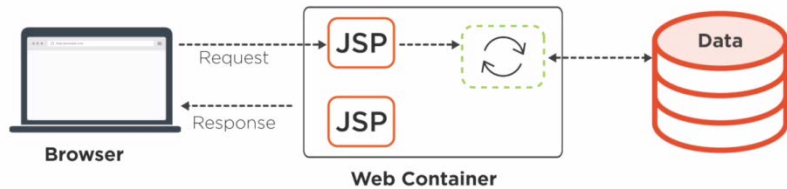
Model 2 Architecture



JSP Model 1 Architecture



JSP Model 1 Architecture



Pros:

Development will be easy and faster

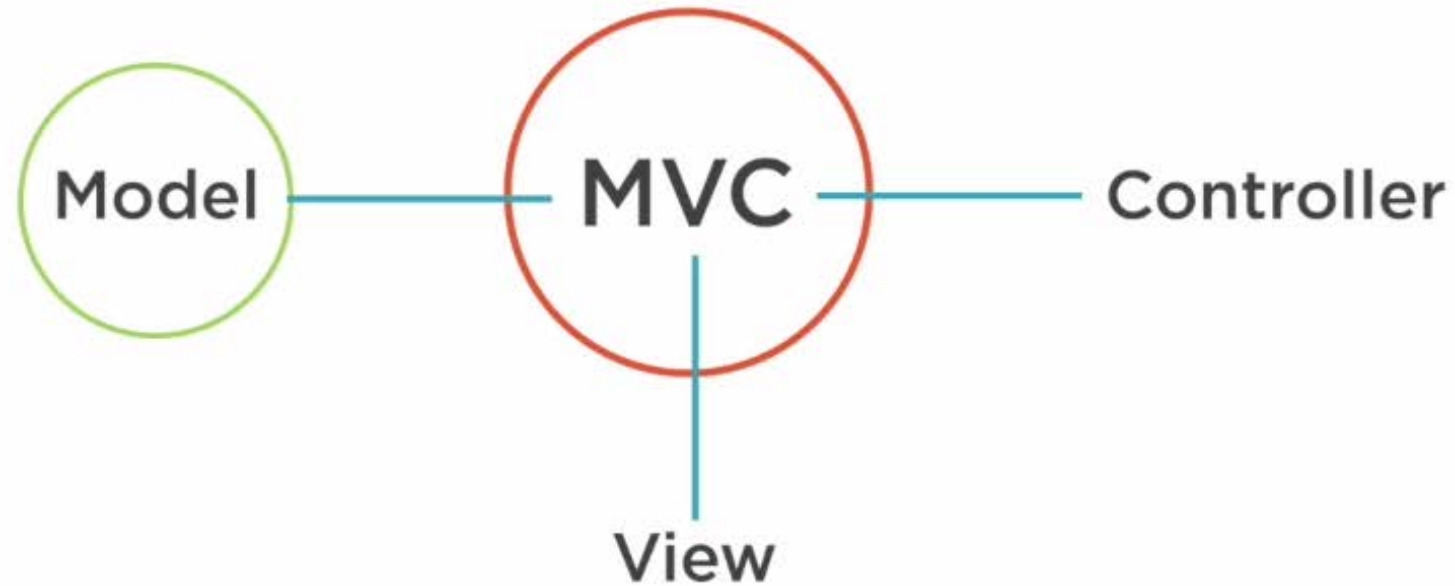
Cons:

Not suitable for large-scale application development

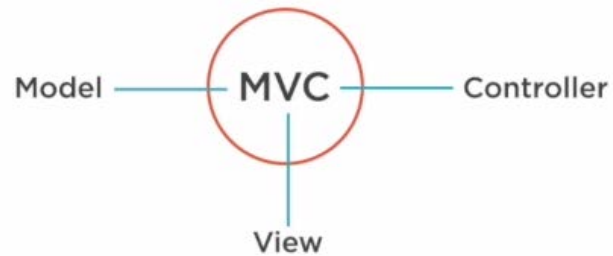
No Separation of Concerns

Maintenance will be problem

JSP Model 2 Development Architecture



Model 2 Development Architecture

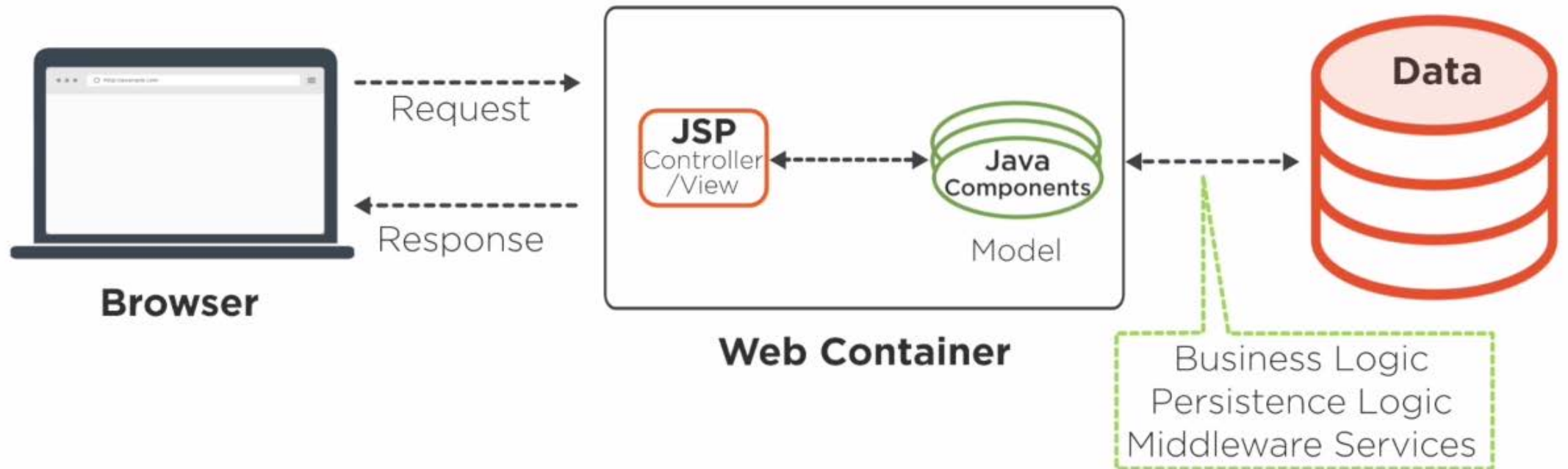


Using MVC 1 Architecture

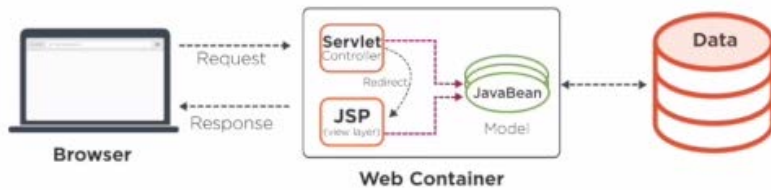
Using MVC 2 Architecture



JSP Model 2 Architecture –MVC 1



JSP Model 2 Architecture-MVC 2



Pros:

Navigation Control Centralized

Follows Industry Standard

Easy to Maintain

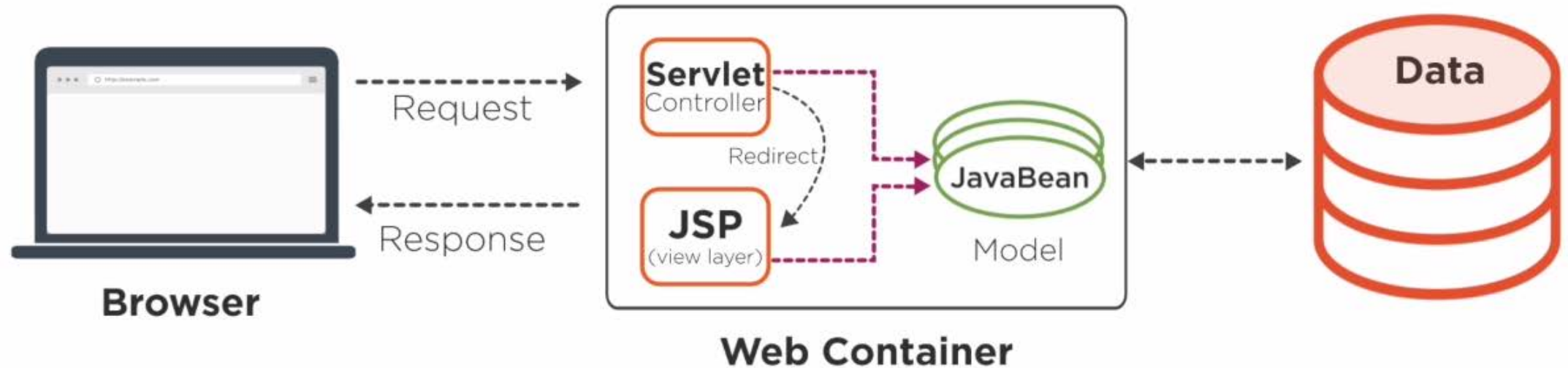
Better Separation Of Concern

Parallel Development

Cons :

Need to Recompile the Servlet Class

JSP Model 2 Architecture -MVC 2



Course Outline

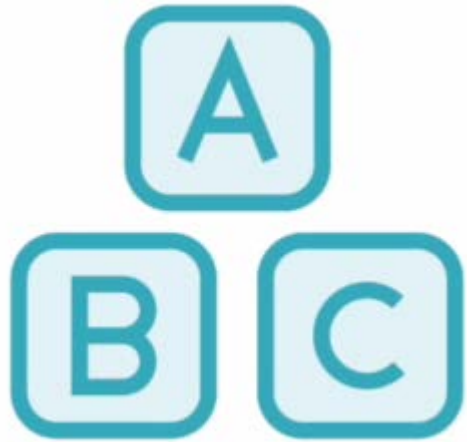


Development Models

Model 1 Architecture

Model 2 Architecture



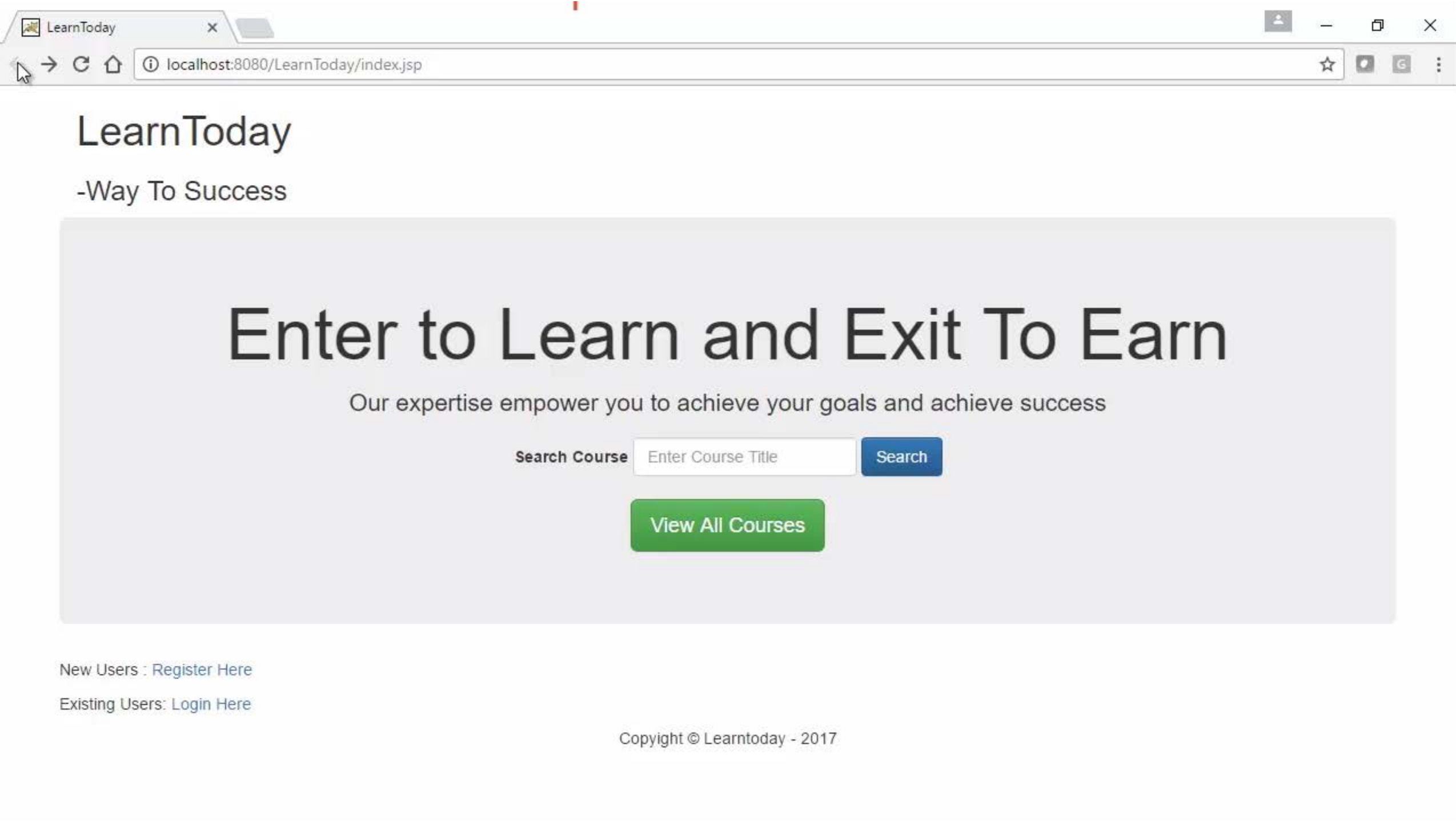


Expression Tag

Declaration Tag

Scriptlet Tag





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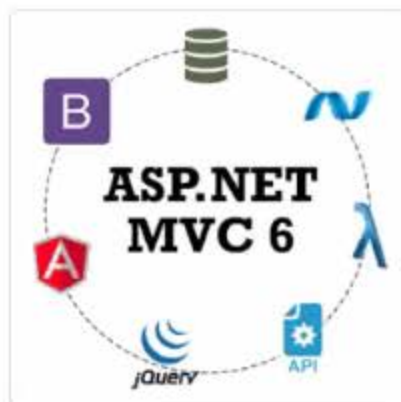
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Summary



JSP Life Cycle

JSP Development Models

