Java EE: Programming Servlets

Introduction



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Java EE: Programming Servlets

- > Introduction
- > Building and Deploying your First Servlets
- Working with Form and Query String Data
- ➤ Handling HTTP Requests and Responses
- > Intercepting HTTP Requests with Filters
- ➤ Handling Exceptions in Servlets
- > Tracking Session Data
- > Receiving and Processing File Uploads
- > Packaging Servlets for Deployments
- > Debugging Servlets
- ➤ Globalizing Servlets
- > Providing Servlets Metadata using Annotations
- > Understanding Asynchronous Servlet Processing

Prerequisite

Core Java Fundamentals

JDBC

HTML

Module Overview



How Web Technology and CGI works?

What is Servlets?

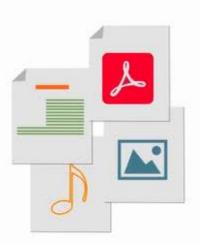
Architecture Of Servlets

Servlets Life Cycle

Setting up Tomcat Web Server

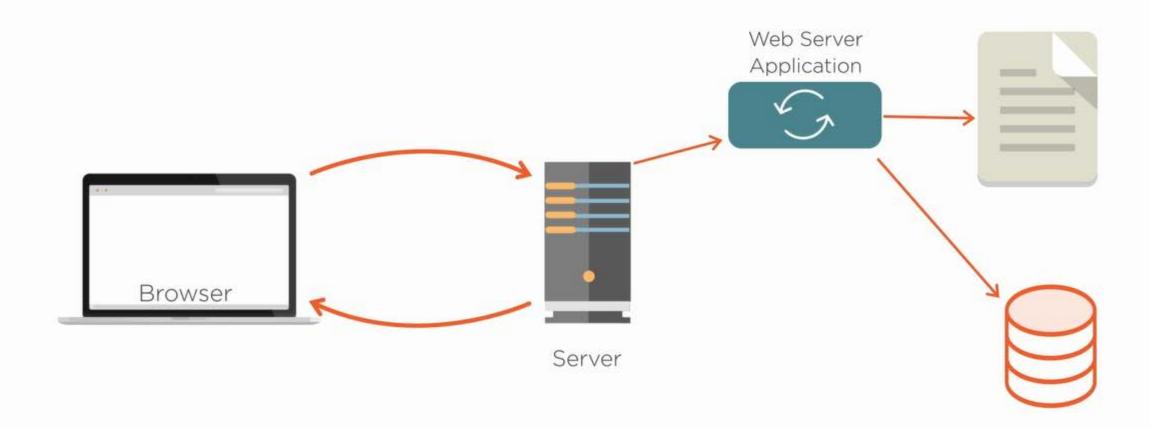


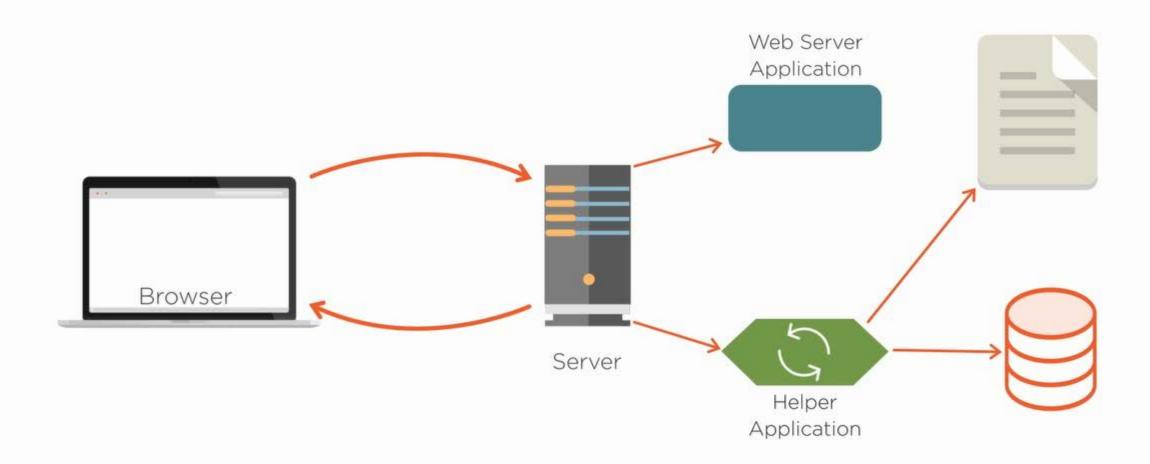


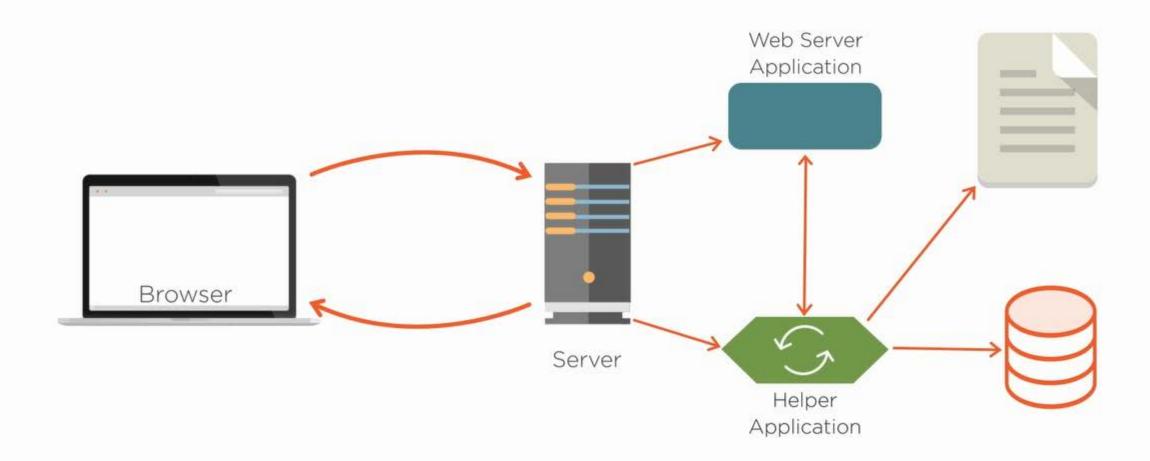


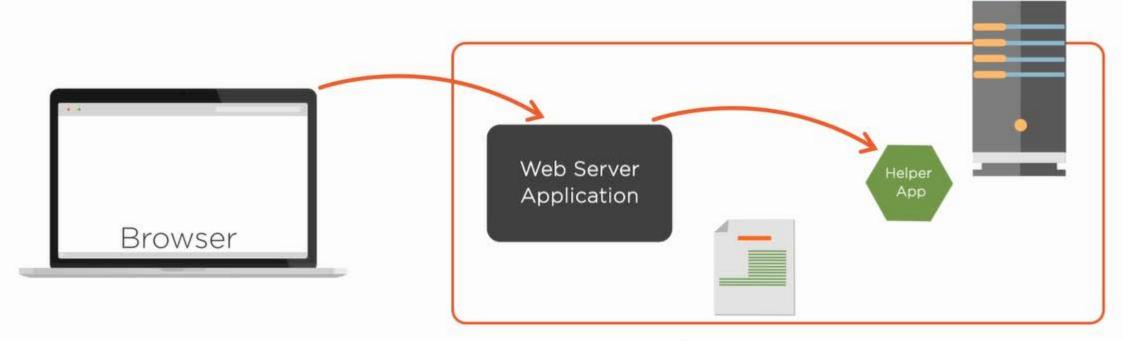




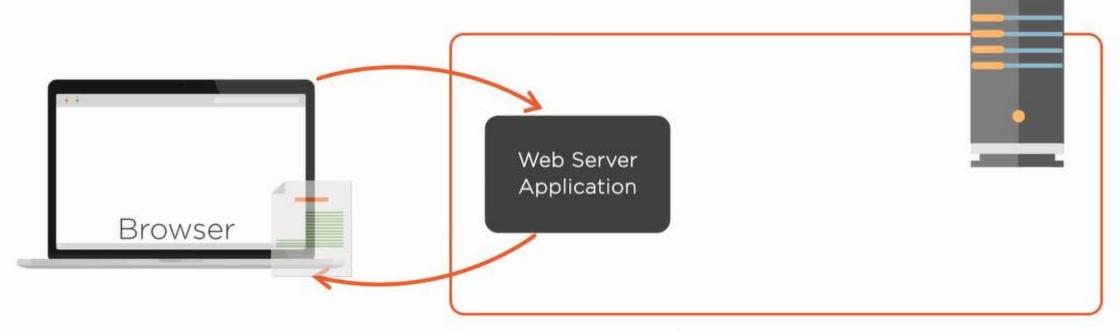




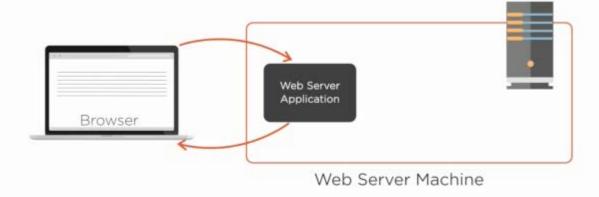




Web Server Machine



Web Server Machine



Limitations

- •Performance will be slow
- •New Database connection must be established for every request

Solution

Java Servlets

What is Servlet?

Servlet is a Java programming language class that is used to extend the capabilities of servers that host applications accessed by means of a request-response programming model.

Advantages of Servlets









Performance

Performance is significantly better

Platform Independent

Servlets are

Platform

Independent

Trusted

Servlets are trusted

Library

Full functionality of the Java class library is available

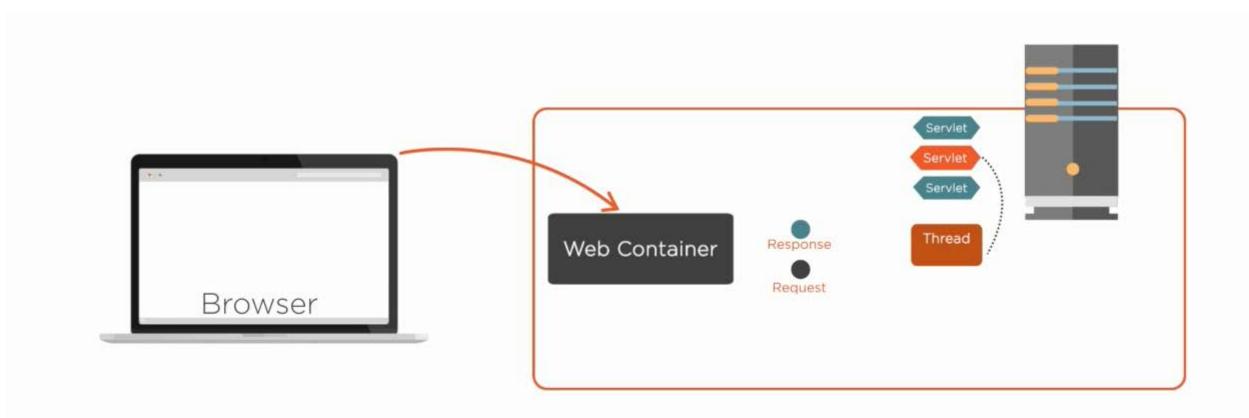


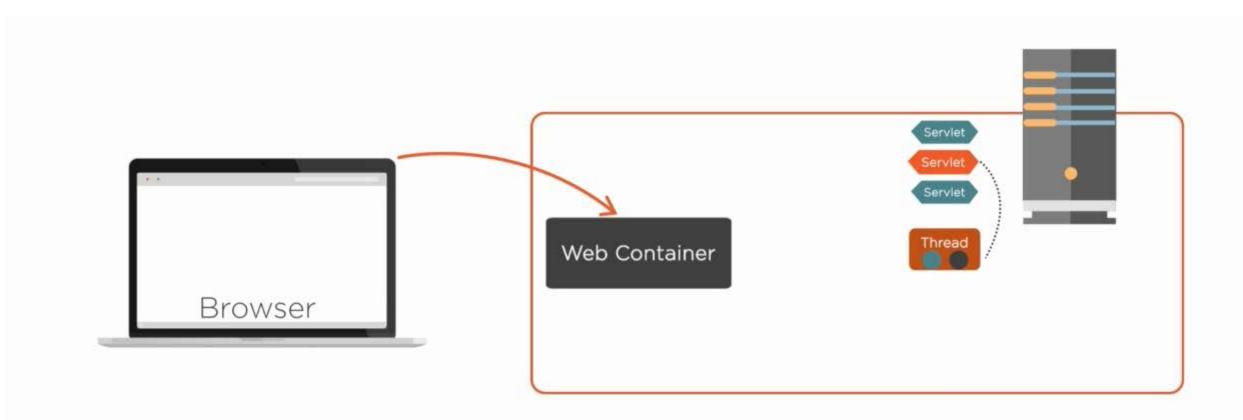
Instantiate the Servlet
Get the Request and the Response
Mange

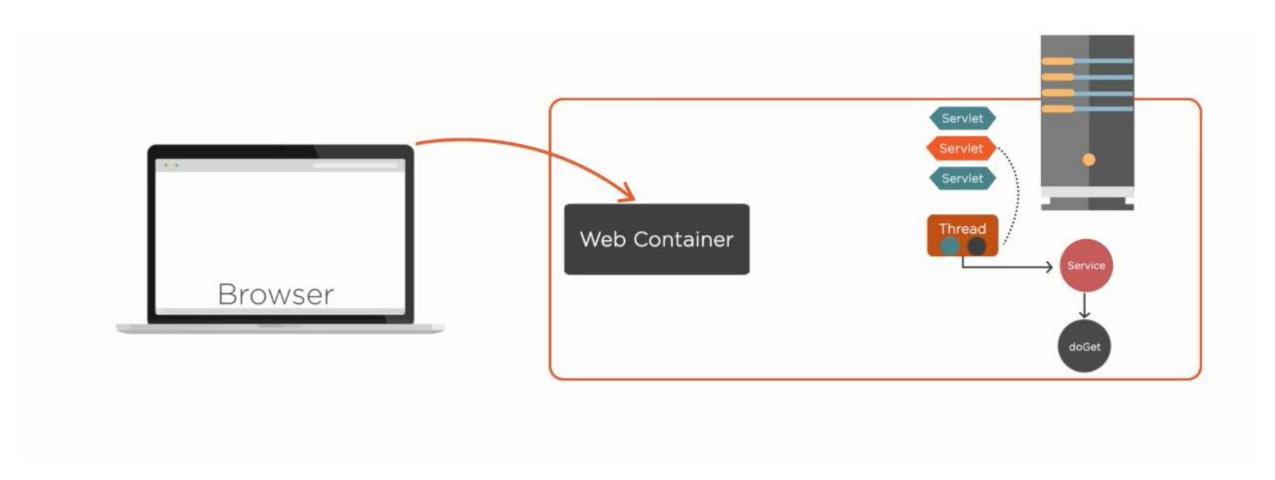
- -Life
- -Death
- -Resources of the Servlet

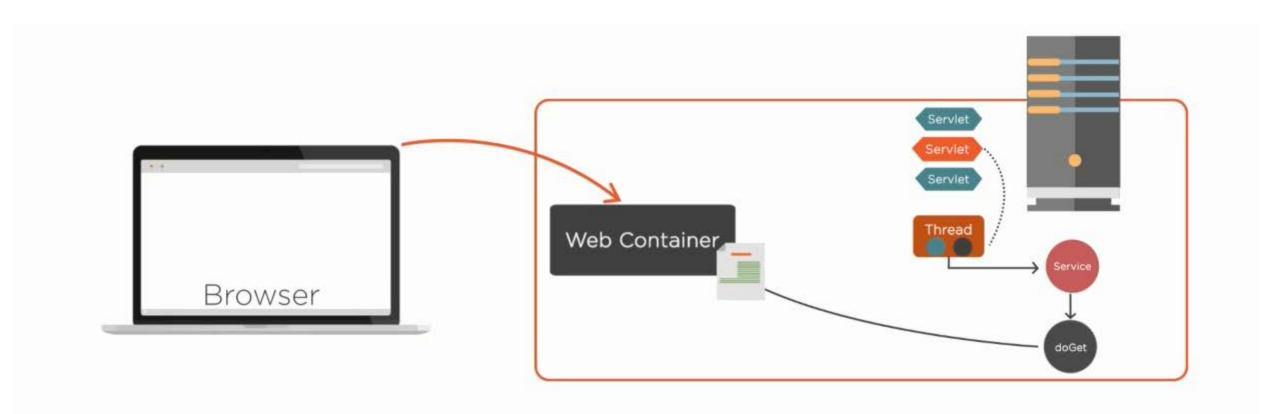
Supported Web Containers

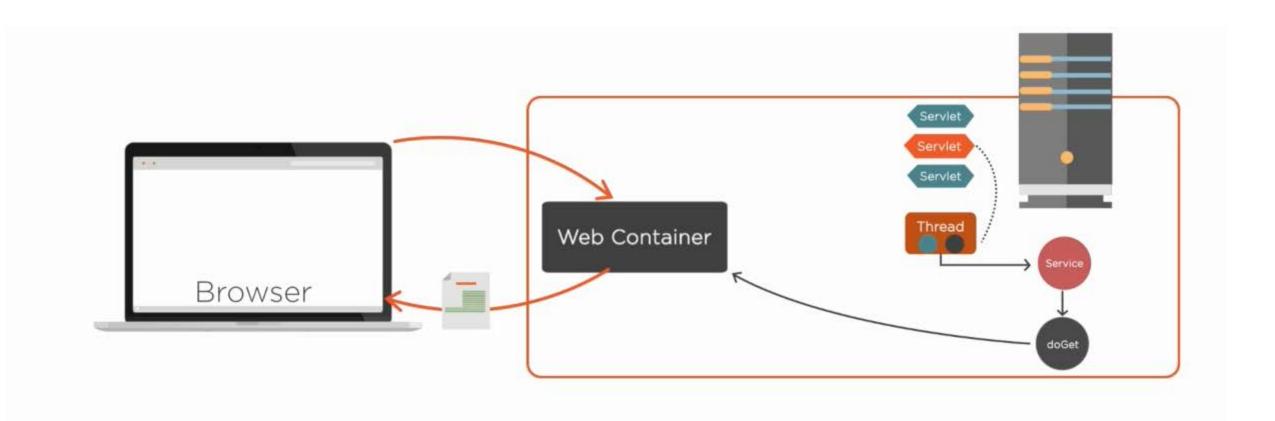
Tomcat, Jetty, JWS and Resin

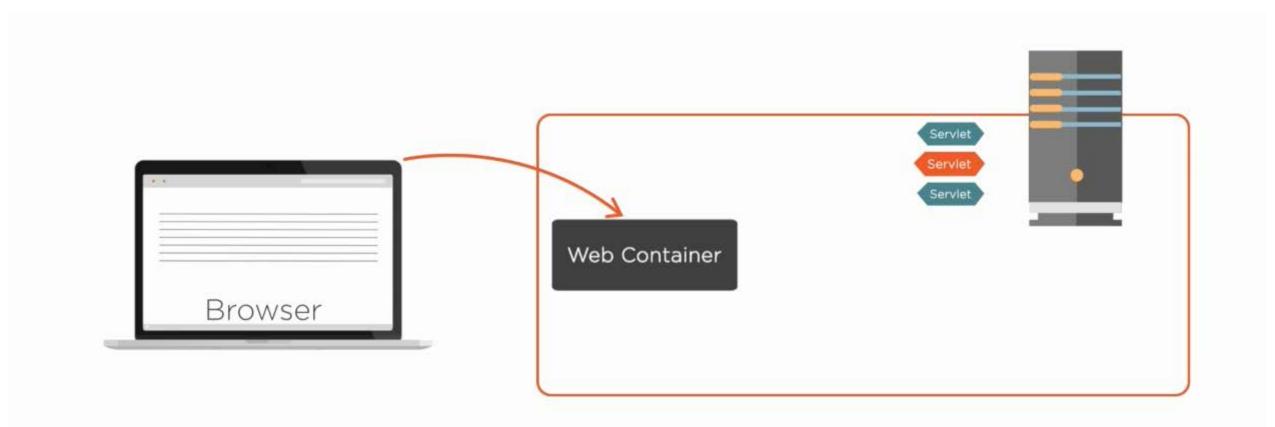












Servlets Life Cycle

Servlets Class Hierarchy







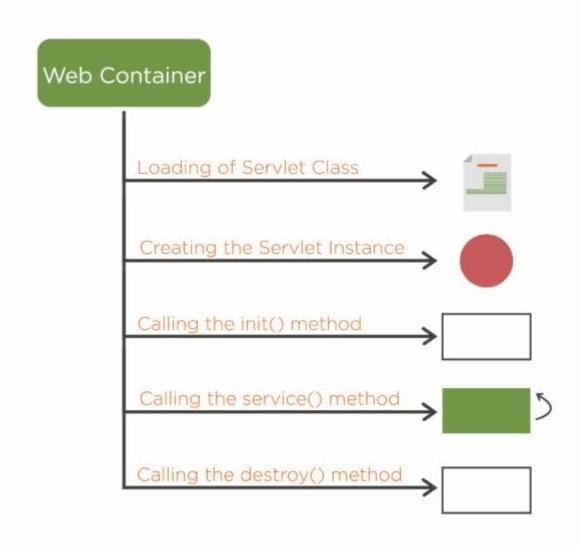
Servlets Class Hierarchy







Servlets Life Cycle



Setting Up Tomcat Web Server

Summary



Architecture Of Servlets
Servlets Life Cycle

Setting Up Tomcat Web Server