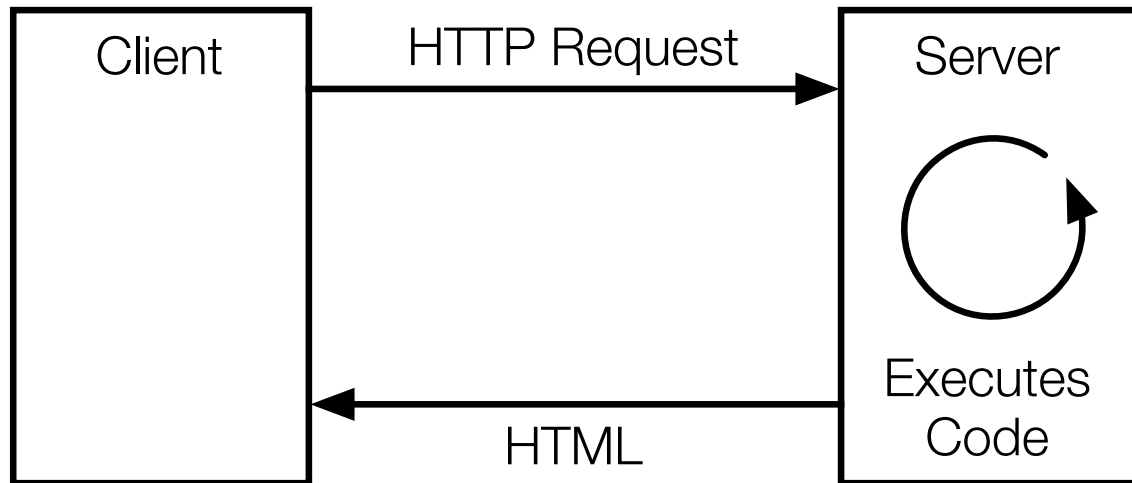


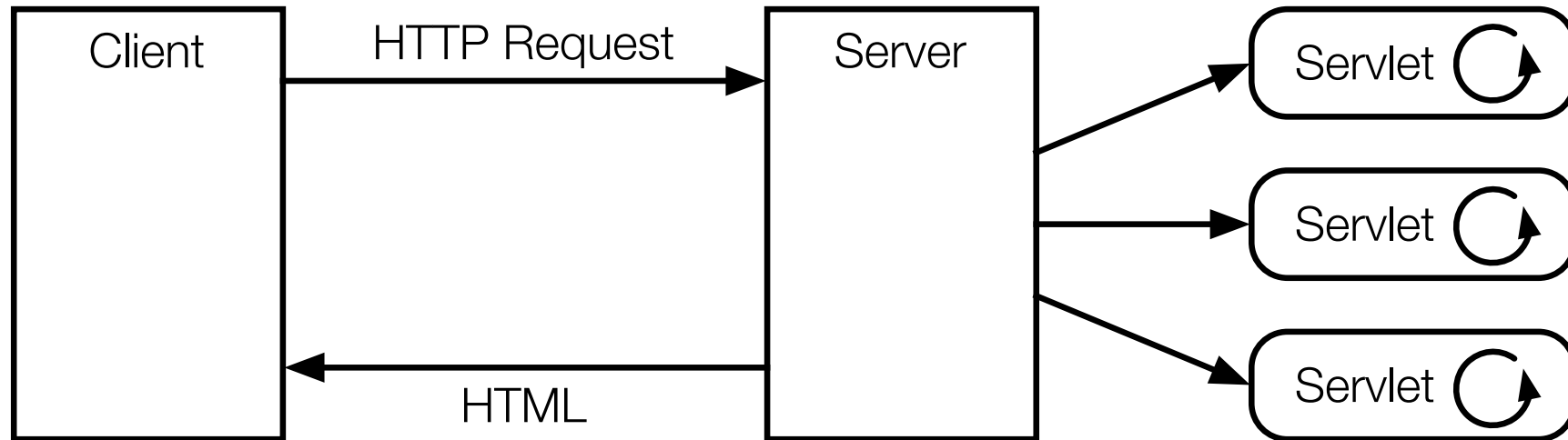
# Dynamic Webpages

## Servlets

# Dynamic Web Pages (Server-Side)



# Dynamic Web Pages (Servlets)



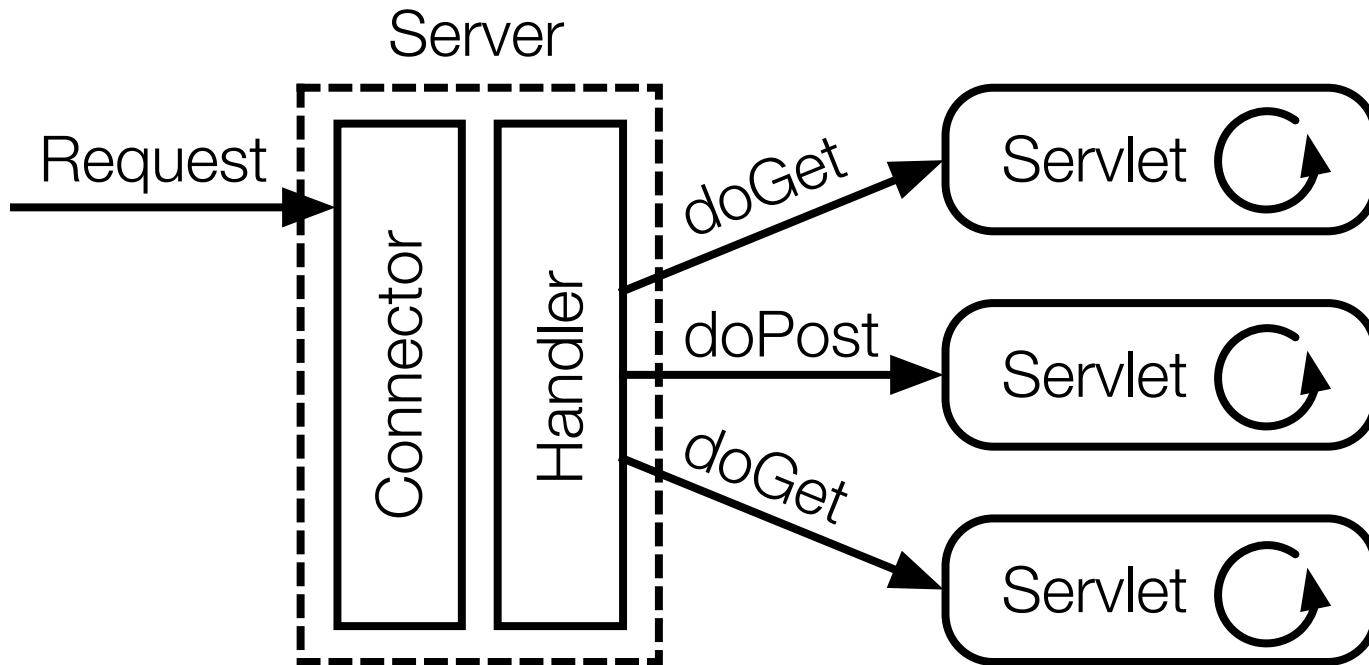
# Jetty Web Server



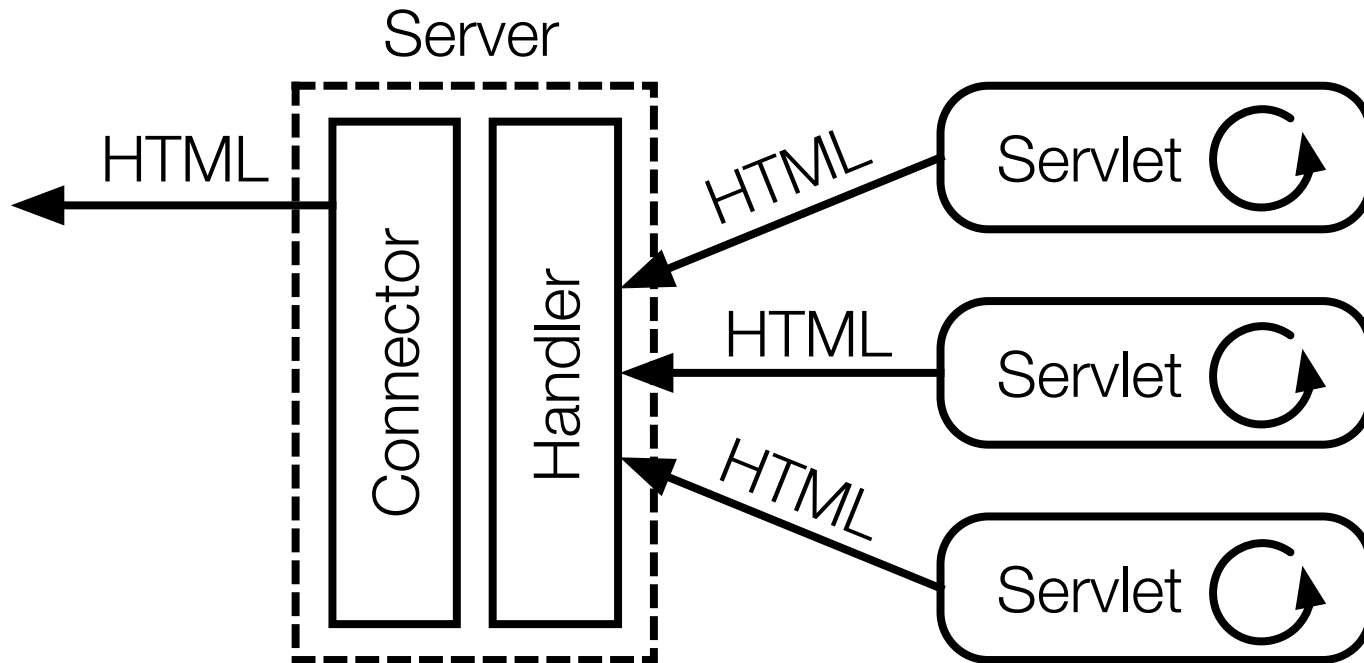
<http://www.eclipse.org/jetty/>



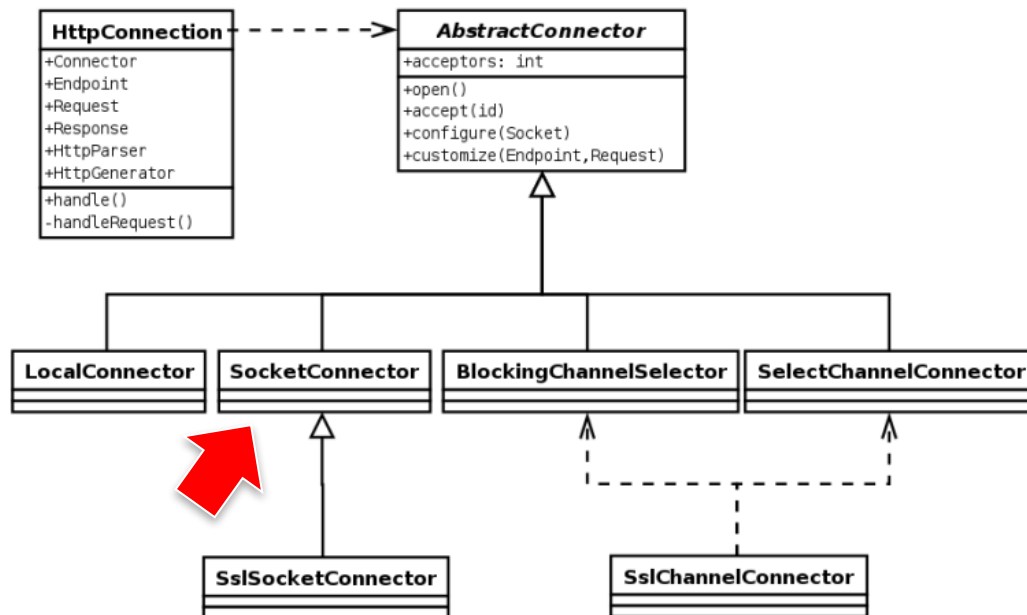
# Dynamic Web Pages (Jetty)



# Dynamic Web Pages (Jetty)

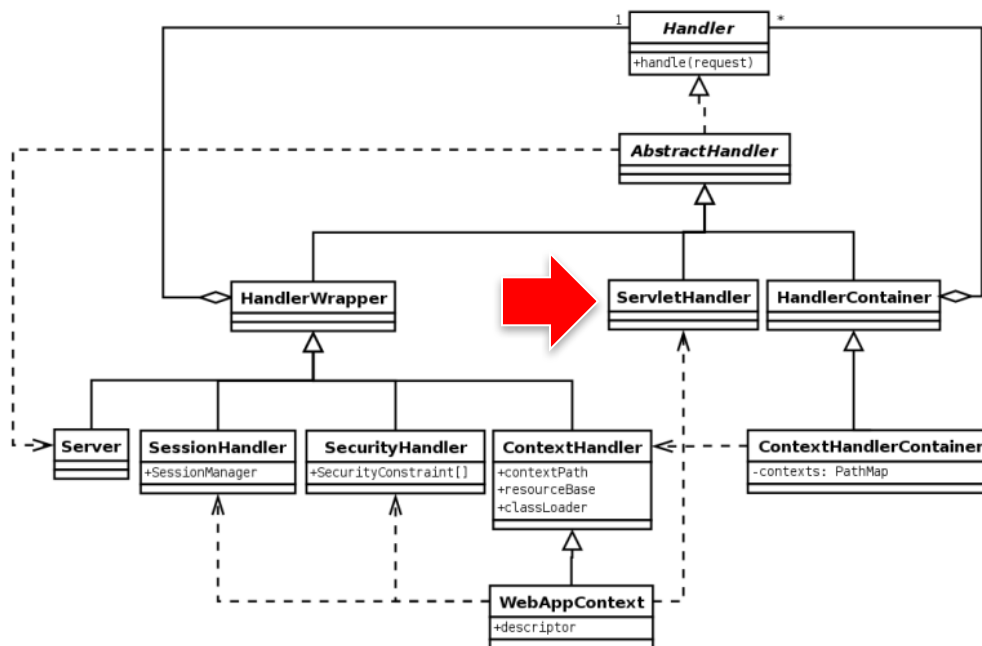


# Jetty Connectors



<http://www.eclipse.org/jetty/documentation/current/architecture.html>

# Jetty Handlers



<http://www.eclipse.org/jetty/documentation/current/architecture.html>



# Java Servlets and Jetty

- **Servlets**

- Java package for servicing HTTP requests
- Generates HTML for dynamic web pages
- Used by web servers, not a web server itself

- **Jetty**

- Embeddable, multithreaded web server in Java
- Good for single-purpose applications or prototyping



# Java Servlets and Jetty

```
1 public static void main(String[] args) throws Exception
2 {
3     Server server = new Server(8080);
4     server.setHandler(new HelloWorld());
5     server.start();
6     server.join();
7 }
```

<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>



# Java Servlets and Jetty

```
1 public void handle(String target, Request baseRequest,
2     HttpServletRequest request,
3     HttpServletResponse response) throws Exception
4 {
5     response.setContentType("text/html;charset=utf-8");
6     response.setStatus(HttpServletResponse.SC_OK);
7     baseRequest.setHandled(true);
8     response.getWriter().println("<p>Hello World</p>");
9 }
```

<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>



# API Documentation

- **Servlet Documentation**

- <http://docs.oracle.com/javaee/6/api/>
- Go to **javax.servlet** package

- **Jetty Documentation**

- <http://download.eclipse.org/jetty/stable-9/apidocs/>
- <http://www.eclipse.org/jetty/documentation/>



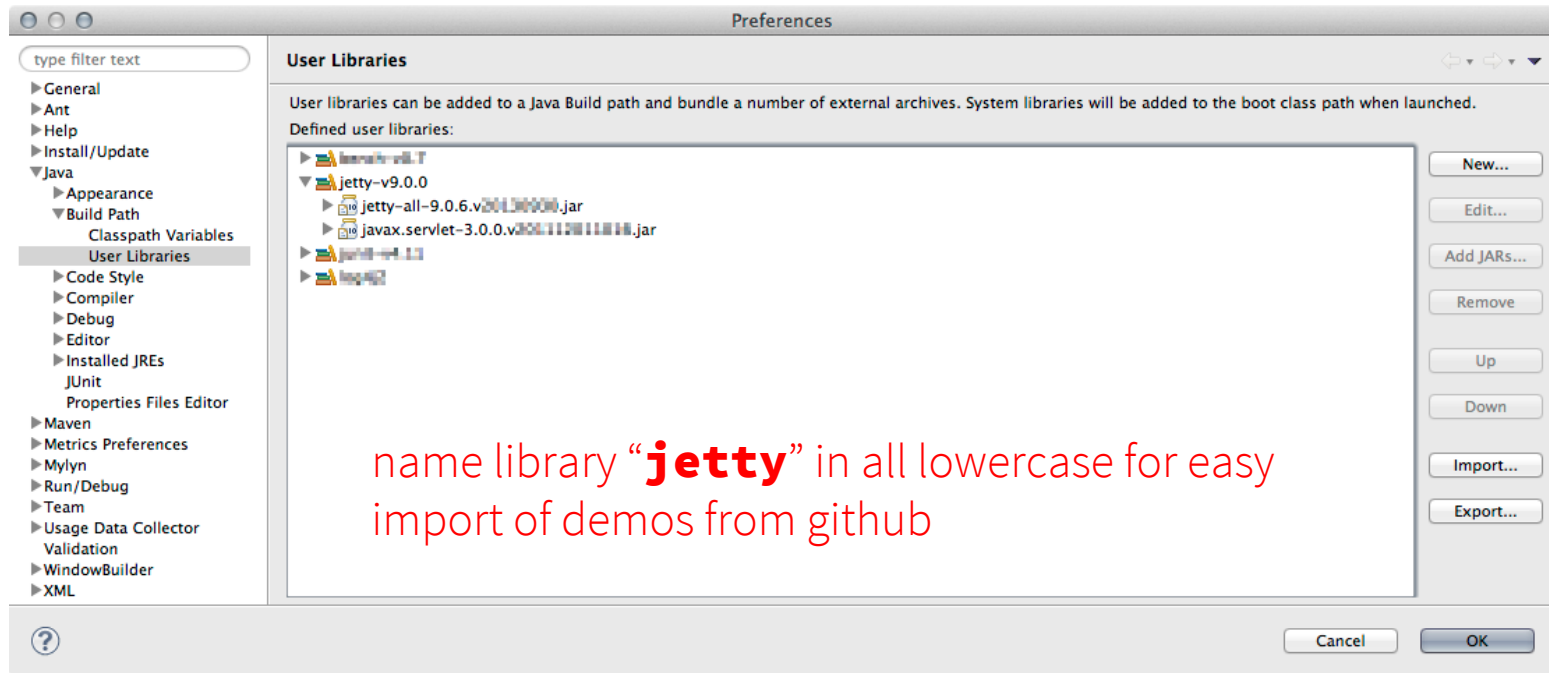
# Installing Jetty (for Embedding)

- Download latest aggregate 9.x.x Jetty jar file
  - <http://central.maven.org/maven2/org/eclipse/jetty/aggregate/jetty-all/>
- Download latest javax.servlet 3.x.x jar file
  - <http://central.maven.org/maven2/javax/servlet/javax.servlet-api/>
- Add to Eclipse as a third-party library

<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>



# Installing Jetty (for Embedding)



<http://www.eclipse.org/jetty/documentation/current/advanced-embedding.html>





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