Lab 2 – TomCat & Java Servlet

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Objectives & Grading

- Install TomCat successfully: 2 points
- Make the hello world java servlet work with your TomCat successfully: 3 points
- Please provide screenshots in your report to prove your successful installation them

Installation+Tutorial

- Install Java 1.6.0_45 (Mac, Windows, Linux) if you don't have Java JRE and JDK installed

- Install Apache Tomcat 6.0.53
  - Start Tomcat (on Windows, click tomcatw.exe; on Mac/Linux, execute startup.sh)
  - Connect to localhost:8080 in a browser. If you see a GUI, congratulations!

- Duplicate the Java Servlet Tutorial on Slide 4

Apache Tomcat

- Install version 6.0.53, not the latest version

- Our project depends on 6.0.53!
  – It also depends on Java 6
- Video tutorial for Tomcat installation
  – Download binary from URL shown on next slide
  – Windowshttps://www.youtube.com/watch?v=IX8xb-suzVg
  – Mac
    https://www.youtube.com/watch?v=wIbJ7tc5oGE

Java Servlet Tutorial

- https://www3.ntu.edu.sg/home/ehchua/programming/java/JavaServlets.html
- We will work on the Hello World example till section 3.4

Architecture of Web Applications
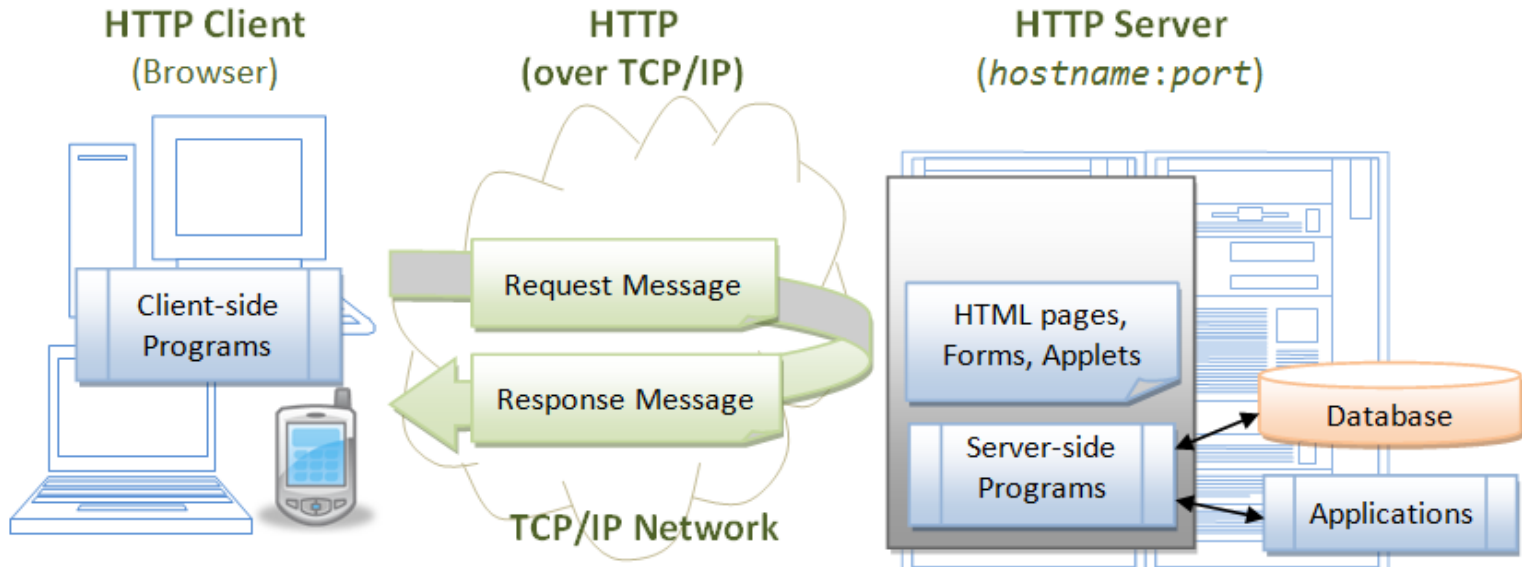
Start up / shut down Tomcat

- cd $CATALINA_HOME
- ./startup.sh (non-windows) or ./startup.bat (windows)
- ./shutdown.sh (non-windows) or ./shutdown.bat (windows)

Directory structure of Tomcat Web Application
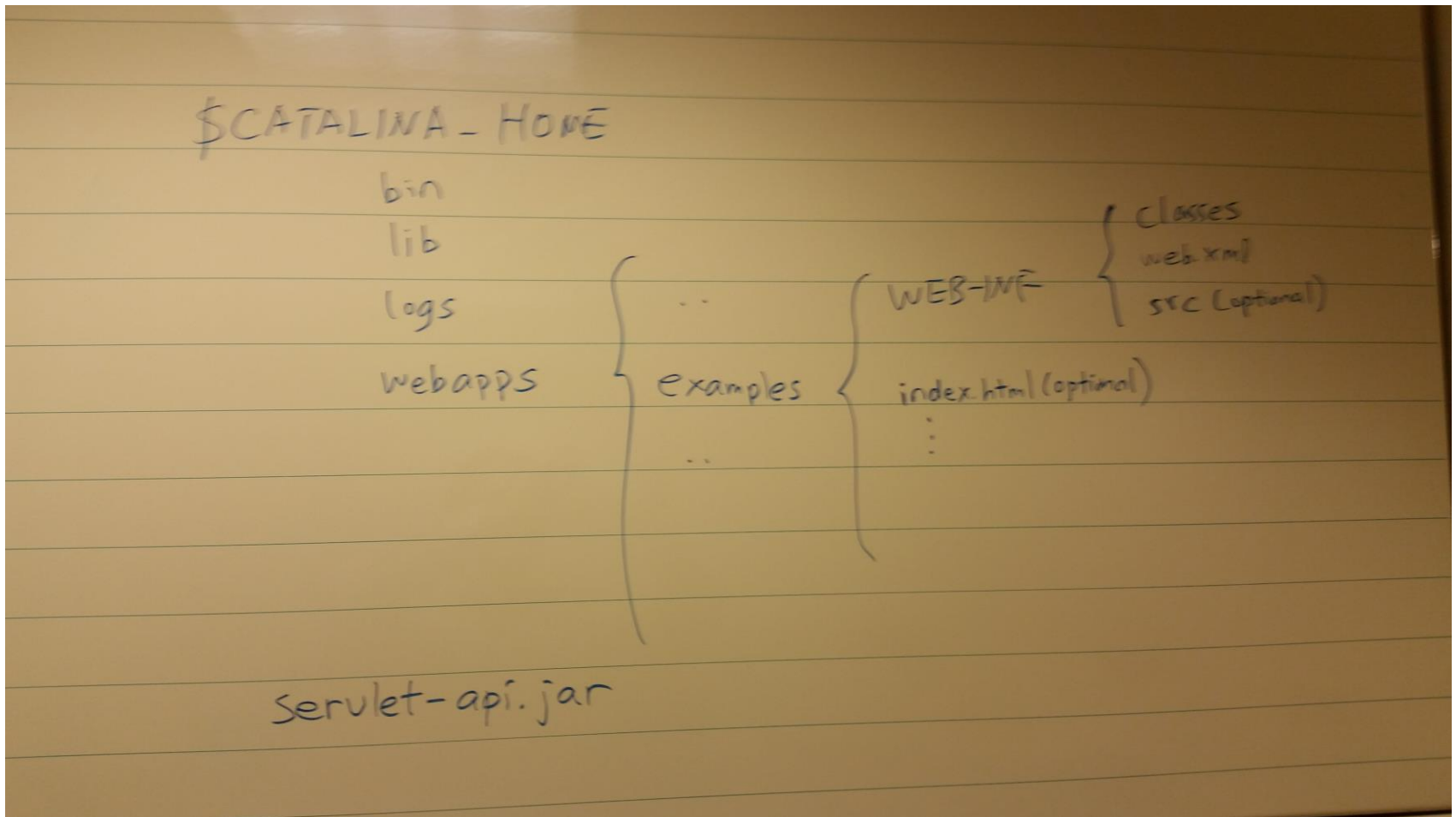
Compiling servlet

- **javac path_to_java_files –d path_for_class_files –classpath path_to_jar_files**

- E.g.
  - **cd WEB-INF**
  - **javac src/mypkg/HelloServlet.java –d classes –classpath tomcat_root/lib/servlet_api.jar**

From HTTP Request to Servlet Class