

CS5551 - ADVANCED SOFTWARE ENGINEERING

Dr. YUGYUNG LEE

HOME ASSIGNMENT 6

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Task: Develop RESTful Services using Jersey in Java.

STEPS:

1. Open Eclipse and Create a Dynamic Web Project with Apache Tomcat Runtime environment.
2. Convert the Project to Maven project by right clicking on the project and selecting the options.
3. Add Jersey dependencies.
4. Add Apache Tomcat server by clicking on Server tab and choosing Apache Tomcat 8.0 from the list and provide existing installation path.
5. Update web.xml file with URL Patterns.
6. Created two services: Kelvin to Fahrenheit, Kelvin to Celsius conversion service and Simple Interest and Compound Interest calculation service.



7. Right click on the Project and Choose Run as Run on Server.
8. Server is launched on port 8080.
9. Create JUnit test cases for the two services and run the Test cases using Run as JUnit test case.

JUnit

Finished after 0.027 seconds:

Runs: 2/2 Errors: 0 Failures: 1

Service1Test [Runner: JUnit 4] (0.000 s)

- testCalculateSimpleInterest (0.000 s)
- testCalculateCompound (0.000 s)

Failure Trace

org.junit.ComparisonFailure: expected:<...dInterest>9.22337203(6)854776E18</Compo
at Service1Test.testCalculateCompound(Service1Test.java:22)

JUnit

Finished after 0.019 seconds:

Runs: 2/2 Errors: 0 Failures: 0

Service2Test [Runner: JUnit 4] (0.000 s)

Failure Trace