

External Platform Bootcamp Tutorial

What is it?

- A three day session on how to build code using the Proofpoint Java Platform. You eat, breathe, and sleep the platform...

When is it?

- Bootcamp 1: Jan 26 - Feb 1 2011
- Bootcamp 2: April 2011
- Bootcamp 3: Nov 16 - 22, 2011
- Bootcamp 4: May 7 - 11, 2012
- Bootcamp 5: June 2012 Summer Intern Session
- Bootcamp 6: October 2012 HMC

What should be the outcome?

- In the end, students should know how to build a RESTful Java server using the Proofpoint platform.

What is the philosophy?

- It's all about agility and maintenance
- Code readability, hands off during production, visibility
- Being able to change stuff easily and effectively
- Understand the impact of changes
- Small, simple, loosely coupled services that do one thing very well because that's all they do

What are base assumptions about knowledge?

- Basic knowledge of java
 - familiar with Java 6
 - annotations
 - Java 5 tiger a developer's notebook
 - Read the included Java Code Style guidelines
- knowledge of git
 - Github
 - Pro Git
- Maven 3.01 on command line
- IntelliJ (recommended)

What are the other prerequisites?

- This is a self-paced tutorial, but it is recommended that the student's attention be focused while working each of the lessons. Close the Facebook window, turn off those Tweet notifications, crank up the tunes if you're so inclined, kick back, and CODE!
- Read the recommended books:
 - [Effective Java \(2nd Edition\)](#)
 - [RESTful Web Services](#)
 - [Release It](#)
- If using IDEA 11:
 - Code style & settings installed
 - Familiarity with basic features (create class, compile, run, run in debug mode) – basically, know how to create and run a hello world program
- Java 6 installed
- Git installed
 - Familiarity with basic concepts
 - Screencasts: <http://gitcasts.com/>
 - Other resources listed in the Eng_Git.pdf document.
 - Github account set up (if needed)
 - settings.xml configured
- YourKit installed, get an evaluation license (they may want to wait until close to bootcamp start date, as the license is valid for 30 days)

[Download an install here](#)

- Curl installed – we're going to exercise HTTP APIs from the command line
- Familiarity with Java 5 (vs Java 1.4) features
- Knowledge of HTTP and HTTP API guidelines as described in the included ENG_HTTP-based_api_guidelines.pdf.
- Time-permitting, basic familiarization with Guice, Guava, JAX-RS/Jersey
 - <http://wikis.sun.com/display/TheAquarium/Jersey,+JAX-RS+and+REST> (screencast about jersey)
- GitX installed
 - Mac: <http://gitx.laullon.com/> Download the zip, unpack it, drag the GitX app to the applications folder, run it, go to the GitX menu and enable terminal access.
 - Linux: Giggie, qgit, gitg or gitk for people running Linux

Documentation

- Start_Here.pdf: This document.
- Bootcamp_Day_1.pdf: First day exercises.
- Bootcamp_Day_2.pdf: Second day exercises.
- Bootcamp_Day_3.pdf: Third day exercises.
- ENG_Git.pdf: Helpful information about our favorite version control system.
- ENG_Guice.pdf: A Dependency Injection Primer
- ENG_HTTP-based_API_guidelines.pdf: HTTP API conventions used by Proofpoint.
- ENG_JavaCodeStyle.pdf: Proofpoint Java coding style specification.
- Effective_Java.pdf: Excerpts from Josh Bloch's excellent Java book.
- RestCheatSheet2.png: HTTP status codes decoded.

Exercises

Day 1	Bootcamp_Day_1.pdf
Day 2	Bootcamp_Day_2.pdf
Day 3	Bootcamp_Day_3.pdf

Other References

[JSR-311 JAX-RS JavaDocs](#)