# Contents

In	structor Notes
	Timings Overview
	Rough Timings:
D.	xercises
دي	
	Exercise - Basics Overview Pre-requisites
	Exercise - Basics Overview
	Basic Concepts and Tooling Exercises
	Optional Exercises: Or Test REST Listicator in Buggy mode $\ \ldots \ \ldots$
	Exercises - Payload Object Abstractions
	Exercises - Abstractions
	RestMud
	Realease And Readiness Checklist

# **Instructor Notes**

## Timings Overview

#### Planning:

09:00 - 17:00

- 09:00 10:30
- Break at 10:30 10:45 -10:45 12:00
- Lunch at 12:00 13:00
- 13:00 15:00
- Break at 15:00 15:15
- 15:15 17:00

#### **Rough Timings:**

- 09:00 09:30 Workshop Overivew, Introductions, Start Basics
- 09:30 10:00 Basics Continue
- 10:00 10:30 REST Assured Automating slides, demo, exercises
- 10:30 10:45 break
- 10:45 11:00 REST Assured Automating thru proxy, && exercises
- 11:00 11:30 Payload Objects and exercises
- 11:30 12:00 GSON & XStream, && exercises
- 12:00 13:00 lunch
- 13:00 13:30 HTTP Calls with Java.net, comparison with REST Assured
- 13:30 14:00 Abstractions overview

<sup>&#</sup>x27;use non speaking time for exercises and hands on'

- 14:00 14:30 Abstraction Exercises
- 14:30 15:00 Abstraction Exercises
- 15:00 15:15 break
- 15:15 15:30 Overview of Bots
- 15:30 16:00 Writing a simple bot
- 16:00 16:30 Bot challenge on Rest Mud write the best Scoring Bot
- 16:30 16:45 Performance Testing Discussion, Coverage Discussion
- 16:45 17:00 wrap up, feedback forms etc.

Abstraction exercises probably take about 4 hours to complete fully

Exercises			

### Exercise - Basics Overview Pre-requisites

- $\bullet\,$  Download the source code, slides, handouts from
  - compendiumdev.co.uk/page/atautorest
- Download the app from
  - github.com/eviltester/TestingApp/releases
  - compendium-of-test-apps-1-3-3.jar

#### Exercise - Basics Overview

- Run the app
  - java -jar compendium-of-test-apps-1-3-3.jar
- visit localhost:4567/listicator/
- open the source code in IDE and run RestAssuredBasicsTest class
- read over the REST Assured Docs
  - github.com/rest-assured/rest-assured#documentation
- Experiment with some of the tests, try different JSONPath and XMLPath values

Basic Concepts and Tooling Exercises

- assuming the Testing App Running at [http://localhost:4567/listicator/]
- run the example tests RestAssuredBasicsTest
- $\bullet$  get used to the API

- read the docs and experiment with Postman, Insomnia
- GET, POST, DELETE, OPTIONS and POST
- run the example tests through a proxy RestAssuredProxyTest
- replay requests through a proxy
- get used to the app and explore the HTTP Client functionality and explore the API based on its documentation

# Optional Exercises: Or Test REST Listicator in Buggy mode

java -jar compendium-of-test-apps-1-3-3.r -bugfixes=false

- The system has been coded with some known bugs
- these are all fixed by default.
- start with -bugfixes=false to have known bugs
- See if you can find them

You can run the app twice on different ports to compare output, use the command line argument -port to start up the application on a different port e.g. -port=1234 would start the app on port 1234

## Exercises - Payload Object Abstractions

- Using RestAssuredMarshallingTest
- Run tests and make sure you understand them
- It might help to run them through a proxy
- see exercises at the bottom of the class file

Exercises - Abstractions

- create a ServerConfig which can be set by environment variables
  - Map<String, String> env = System.getenv();
- allow configuration by System properties
  - System.getProperties()
  - System.getProperty(String key, String def)
  - allow System Properties to override environment variables

#### RestMud

- https://dashboard.heroku.com/apps/restmud
- Settings change config vars for game secret code
- https://restmud.herokuapp.com/
  - wiz / alanthewiz
  - change secretcode within wiz interface
    - \* https://restmud.herokuapp.com/wiz

#### Realease And Readiness Checklist

- [] pandocifier sh build-handouts.sh
- [] create slides pdf using pandocifier/export
- [] sh export-code.sh
- [] update website from release folder
- [] workshop page is accessible
  - compendiumdev.co.uk/page/atautorest
  - emergency download of main app available from page just in case
- [] can download the main test app
  - github.com/eviltester/TestingApp
  - github.com/eviltester/TestingApp/releases
  - compendium-of-test-apps-1-3-3.jar
- [] can download the performance.zip
- [] can run the performance code from artillery
- [] can download the workshop code from the workshop page
- [] can unzip
- [] can load exercises and answers into editor
- [] can run exercises code against testing app locally
- [] can run answers code against testing app locally
- [] can download RestMud bot code from github and it works
  - github.com/eviltester/restmudbots
- [] mailing list signup for advanced API automating exists
- [] mailing list form available on page