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Course Introduction

Reading: Module Overview 2 min

Unit Testing and Packaging

Video: Unit Testing 3 min

Ungraded External Tool:
Hands-on Lab: Unit Testing
30 min

Video: Packaging 3 min

Ungraded External Tool:
Hands-on Lab: Creating a
Python Package
30 min

Reading: Python Style Guide 15 min

Reading: Overview of Static Code Analysis Hands-on Lab 1 min

Ungraded External Tool:
Hands-on Lab: Static Code
Analysis
30 min

Project: Build, Test and Package your Python Application

Reading: Project Scenario
Overview
5 min

Reading: Provision instance of Watson Language
Translator
10 min

Ungraded External Tool:
Hands-on Lab: Peer
Reviewed Assignment
1h

Project Submission and

Project Scenario Overview

In this project you will be using the IBM Watson APIs to create two language translators. English to French and English to German. You will be writing unit tests to test the functionality of the code you have written. You will follow the python coding conventions, and verify them by running static code analysis. Finally you will be creating a python package out of the files you have created for easy delivery to your clients. You will be evaluated based on the following factors.

- The code you have written.
- The unit tests you have written.
- Unit test results.
- Static code analysis results.

You will be evaluated by your peers and will be awarded points for the completeness of your code, tests and the analysis results as evidenced by your screenshots which you save as you work through the project and upload in the peer review assignment.

You will be using the Theia IDE to do this lab. When you log into the Theia environment, you are presented with a 'dedicated computer on the cloud' exclusively for you. This is available to you as long as you work on the labs. Once you log off, this 'dedicated computer on the cloud' is deleted along with any files you may have created. So, it is a good idea to finish your assignment in a single session.

If you finish part of the assignment and return to the Theia lab later, you may have to start from the beginning. Plan to finish out the assignment when you have the time to finish the complete

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