

Final Project: Part-A

The final project is designed to check your cumulative understanding.

Notes:

- Use the **URLValidatorCorrect** folder for **Part-A** and use the **URLValidatorIncorrect** folder for **Part-B**.
- Submit **one copy** per group to both Canvas (pdfs) and the GitHub class repository (code).
- Write your group member details in the pdf files.
- The code and documentation for the Apache Commons Validator is available at this link <http://commons.apache.org/proper/commons-validator/>
- The github account is available in this link <https://github.com/apache/commons-validator>

Preliminaries

1. Get the latest files from the class repository by running
 - git remote add upstream <https://github.com/CS362-W2019/CS362-W2019.git>
 - git checkout master # make sure we're on the master branch
 - git fetch upstream #Pull any information about changes in upstream
 - git merge upstream/master -m "Sync" # merge new files

You should now have new files in /FinalProject/

2. Copy FinalProject folder into your projects/youonid/FinalProject/

The directory “/FinalProject/” contains 2 different folders **URLValidatorCorrect** and **URLValidatorIncorrect**. We will be using the **URLValidatorCorrect** folder for **Part-A** and **URLValidatorIncorrect** for **Part-B**.

Part-A: Review of Existing Test Case(s)

(75 points)

For Part-A, you will be provided a correctly working version of URL Validator. You need to answer the following questions:

- Explain the testIsValid function of UrlValidator test code. It is available under the **URLValidatorCorrect** folder. (20 points)
- Describe the total number of URLs that are tested and how it builds the URLs. (20 points)
- Give an example of both a valid URL and an invalid URL being tested by the testIsValid() method. (20 points)

- The UrlValidator code is a direct copy of the apache commons URL validator code. The testfile/code is also a direct copy of the apache commons test code. Explain how your unit tests that you wrote in Assignment 3 differ from a real world test in URL Validator's testIsValid(). Describe the differences in terms of concepts & complexity. (15 points)

Team Work:

(25 points)

Describe the contribution of each of the team member.

Submission instructions ():

- **Canvas**
 - **ProjectPartA.pdf** (100 Points)
- **The class github repository**
 - **No** submission for Part-A

General Notes:

- Only upload one submission for each group.
- Write your names and onids (all group members) in the Canvas comment and the pdf files.