

Hands-on task: Create Jinja2 template [Linux]

Overview

Utilize the text editor of your choice to create a Jinja2 template and YAML file that will create a simple HTML page, which links to multiple pages.

Attempt to complete as much of the objective as possible; be prepared to discuss the task afterwards. Do not get hung up on details – if something is ambiguous, ask.

Scope

- The “input YAML” file (input.yml) you create should contain definitions for:
 - A header description to display at the top of the page
 - A list of website link names, and link destinations, and a single-word website “type”. This should include:
 - “Yahoo” – www.yahoo.com (type: “search”)
 - “Stackoverflow” – www.stackoverflow.com (type: “code”)
 - “Wikipedia” – www.wikipedia.org (type: “research”)
- Create an appropriate Jinja2 template file (e.g., site.html.j2)
- The “output HTML” file (site.html) should show a single, working web page:
 - A banner in large text (based on the input banner description)
 - A list of links – links of type “code” should have “emphasis” tag (em tag)

Implementation notes

- This is an open-book question, Google as much as needed
- Try to come up with the most elegant/extendable solution possible. Hardcoded line items in the template are not acceptable
- The page should load in a browser, and the links should point at the actual websites
 - In the lab environment, access to actual external websites may be denied; this is OK as long as the links are properly formed
 - The lab environment is non-graphical, but the command-line “elinks” browser may be used to navigate to the site
- Don’t worry about formatting, CSS, etc. – the exercise is meant to explore templating and not HTML
 - Although readability is nice, HTML spacing and line endings are not important to this exercise

EG to provide

- A Linux shell environment containing text editors, the script, and appropriate libraries to run the script
- A short Python script to apply a YAML file against a Jinja2 template
- A sample “hello world” YAML file and Jinja2 template to demonstrate the script
- A sample HTML website utilizing the tags described here