Open-Source Technology Use Report

Proof of knowing your stuff in CSE312

Guidelines

Provided below is a template you must use to write your report for each of the technologies you use in your project.

Here are some things to note when working on your report, specifically about the **General Information & Licensing** section for each technology.

- **Code Repository**: Please link the code and not the documentation. If you'd like to refer to the documentation in the **Magic** section, you're more than welcome to, but we'd like to see the code you're referring to as well.
- **License Type**: Three letter acronym is fine.
- **License Description**: No need for the entire license here, just what separates it from the rest.
- **License Restrictions**: What can you *not* do as a result of using this technology in your project? Some licenses prevent you from using the project for commercial use, for example.
- **Who worked with this?**: It's not necessary for the entire team to work with every technology used, but we'd like to know who worked with what.

Also, feel free to extend the cell of any section if you feel you need more room.

If there's anything we can clarify, please don't hesitate to reach out! You can reach us using the methods outlined on the course website or see us during our office hours.

[re.py]

General Information & Licensing

Code Repository	https://github.com/python/cpython/blob/main/Lib/re.py
License Type	dual licensed under the PSF License Version 2 and the Zero-Clause BSD license
License Description	• This version of the SRE library can be redistributed under CNRI's Python 1.6 license. • Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright © 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. (from CNRI's

	Python 1.6 license)
License Restrictions	• In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1. (from CNRI's Python 1.6 license)
Who worked with this?	Brian Chen, James McGrath

Use as many of the sections below as needed, or create more, to explain every function, method, class, or object type you used from this library/framework.

[re.split]

Purpose

- This function allowed for us to more efficiently parse through the HTTP requests by splitting by multiple delimiters at once.
- This function was used in some cases when the server received an HTTP request from the client. Used in lines 30, 59, and 104.

Magic

- This function allowed for splitting HTTP requests by multiple delimiters at once. Re.split takes a collection of delimiters as a regular expression pattern as its first parameter and the string that is to be parsed as the second parameter. A user can input multiple delimiters separated by “|”. For example, '\r\n|:|; |=' is a pattern that can be found in our project and this would split the given string into a list by “\r\n”, “:”, “; “, and “=”.
- The re.split function can be found on line 200 of the following repository https://github.com/python/cpython/blob/main/Lib/re.py. Here, the pattern is run through _compile(pattern, flags) before being used to split a string.
    - The _compile (pattern, flags) function can be found on line 266 of the same repository. _compile(pattern, flags) function compiles the given pattern into an ordered cache. This cache is then used in re.split to find the pattern in the target string.