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Software Development

Assessment

Our programming language of choice was python and our experience with it was overall very positive. For assignment B, we used python's sys library to interact with command-line arguments and output to the command-line. This library was very straightforward and it allowed us to interact with the command line with ease. Assignment C made us use python's JSON library in order to process a sequence of JSONs and output a JSON object and a JSON list which summarized the count of JSONs processed as well the sequence they were in. we utilized python's build-in JSON library to evaluate if the JSONs were "well-formed" and also establish a breakpoint between well-formed JSONs. We'd imagine that that this would have been easier in javascript due JSON being designed as object notation for it, however dictionaries in python are very a similar structure. For assignment D, we created a GUI and this was pretty difficult to do because the Linux server didn't have a GUI library installed for python 3 installed. To solve this problem we had our makefile create a virtual environment and install the PyQt library on that environment, so that we could source it in our executable and use it in our python script. Once we did that creating the GUI was pretty easy with the help of that library. For assignment E, we took in a sequence of JSONs similar to assignment C, but this time through a TCP connection. Since we had the experience of creating a virtual environment we used that to install and use the library ntplib which was a bit difficult to use in certain areas setting a timing out of 3 seconds but it was effective enough for use to complete the assignment. All in all, our experience with python was great and we will continue to use it going forward in the course.