

README.md

Journal5

Case Study Project

I would like to research bitcoin and its price fluctuations throughout time.

URL

The URL for the source code of this project is available here: <https://github.com/ekivolowitz/LIS351Projects/tree/master/Journal5>

Assignment Writeup

Intentions

Taking Bryan's feedback from Journal4, I implemented a way to maintain flexibility in journal creation, but also implement automatically naming journal's based on time.

Input Work Done

I added a flag to the command line arguments (`--dated`) that will access the `dates.json` file and see what to name the Journal based on time.

Output Results

The project worked as expected. My code in J4 allowed for easy extensibility, so I really only had to add the logic for handling the date:

```
if args.dated:
    with open("dates.json", "r") as f:
        data = json.load(f)
        now = getDate()
        currDate = datetime.datetime.strptime(now, "%m/%d/%Y")
        journalName = "default"
        previous = None
        for i,date in enumerate(data.keys()):
            print(date)
            loadedDate = datetime.datetime.strptime(date, "%m/%d/%Y")
            if currDate < loadedDate:
                if i > 0:
                    journalName = data[previous]
                else:
                    journalName = data[date] # should be 0
                break
            previous = date
        args.project = journalName
```

The only modification I had to make to in the actual project gen code was:

```
if args.dated:
    program_name = args.project + ".py"
```

Approach

I wrote a json file with dates of the journals as the key, and journal names as the value. Then I searched the keys in ascending order, finding the first key that was larger than the current date, and used that value as the project name.

Thoughts on the results

It was fun to write this code because it made me realize that the code I wrote for the last project was well structured. It took very few changes to implement new functionality.

Dependencies

- [python3](#)

Usage

```
$ python3 create.py Journal5 python --dated --purpose "Modification of Journal4 per Bryan's feedback from 1
```

References

- [Journal4](#)
- [DateTime Documentation](#)