CS 3110 Final Project - MS3 Report

Team Name: SVD

Members: Sydney Ho (sh967), Vanessa Fang (vf72), Dylan Tom (dt425)

- **Vision:** In one paragraph, what is your current vision for the system you are building? How has it evolved from previous plans? It's okay for you to make changes, even big ones.
    - Our current vision for the system we're building is a terminal-based application that scrapes data from the Megabus and OurBus bus service websites and outputs all available routes based on user input. Our previous vision included a form of automatic ranking system to rank all available bus routes for the user based on the parameters entered, however we decided to scrap this idea because it was not feasible with the available time. We also decided not to pursue filtering features based on start date, end date, time, location, price, and relevancy.
- **Summary of progress:** Write a one or two paragraph description of what your team accomplished between MS2 and MS3. What functionality did you work on?
    - Between MS2 and MS3, our team successfully implemented parsing for OurBus. We used the requests and BeautifulSoup libraries in Python to web scrape for OurBus. The web scraper in Python takes in a url and downloads all necessary search results into json file, saving it to our project directory. In addition to this, we successfully wrote code to parse the json file for OurBus into our own data type. Our team also accomplished making a centralized type for all bus routes from both Megabus and OurBus. However, due to lack of time we are unable to use it with our current functionality.
    - Our team also accomplished getting input validation to work so that our application can actually output valid bus routes based on the parameters the user inputs. We accomplished this by building a City type that maps each city input to the Megabus and OurBus values for the city. We also built functions that check whether the user input contains valid city, month, day, year, and date.

- **Activity breakdown:** For each team member, give a bulleted list of the responsibilities that team member had, the activities in which they participated during the sprint, the features they delivered, and the number of hours they spent working.
    - Sydney
        - Implemented parsing for the Megabus data type to the bus data type
        - Attemped to parse OurBus, worked with Dylan to parse with python
        - Cleaned up terminal output for Megabus routes
        - Hours Spent: 25
    - Dylan
        - Implemented city type and input validation
        - Got terminal to output Megabus routes
        - Parsed OurBus using python
        - Hours Spent: 25
    - Vanessa
        - Implemented parsing for the OurBus data type to the bus data type (in progress)
        - Implemented user inputs in terminal
        - Assisted Dylan with input validation functions
        - Hours Spent: 25
    - All features were delivered
- **Productivity analysis:** As an entire team, how productive were you? Did you accomplish what you planned in your sprints? Were your estimates of what you could do accurate, or far off? Write a paragraph addressing those questions. Please be honest: we want you to reflect candidly on your progress, so that you can make more accurate estimates between MS2 and MS3. Your grade is not going to be based on what you say here.

- As an entire team, we were as productive as we expected to be based on the guidelines. We anticipated that exams and major assignments would slow down our progress, but we did not expect our progress to slow down as much as it did. While we took a hit in our productivity, we still managed to accomplish some of the functionality planned in our sprints. Our estimates of what we could do were slightly off in terms of features we wanted to implement because we ended up dropping a lot of features. However, we still managed to implement the core features necessary for our application to run.

Signatures

The above report has been read and agreed upon on December 14, 2022 by: