CS 3110 Final Project - MS2 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 websites providing bus services such as MegaBus and OurBus and outputs all available routes based on user input. This application will also have filtering features based on start date, end date, time, location, price, and relevancy. The application will eventually have some form of automatic ranking system to rank all available bus routes for the user based on the parameters entered. This has evolved from our previous plan of recreating Fireboy and Watergirl since we realized that our idea was not really feasible with the amount of effort it would take getting a GUI to work in OCaml.
- **Summary of progress:** Write a one or two paragraph description of what your team accomplished between MS1 and MS2. What functionality did you work on?
    - Between MS1 and MS2, our team successfully implemented a partial web scraper in OCaml to retrieve possible bus routes from the start location to target location on a given day. We used the Mechaml library in OCaml to build our web scraper. We wrote a function that takes in a url and a search form and outputs all the search results into a json file. The json file is then saved into our project data directory where the files will be parsed in the future and used to rank the best bus tickets.
    - In addition to the web scraper, our team worked on getting the terminal to take in user input and print out the relevant information for our application when searching for bus tickets. We created temporary data files to help with getting something to pass in and return for the terminal and see whether it works.

These temporary data files will be used for unit testing until we have completed our web scraper and parsing functions for the data we scrape from MegaBus.

- **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
    - Implement the web scraper with Mechaml
    - Hours Spent: 5
  - Dylan
    - Build types for bus routes
    - Debugging for all members
    - Worked on different version of Mechaml web scraper
    - Hours Spent: 7
  - Vanessa
    - Work on getting the terminal to input and output
    - Wrote sample test data for the terminal
    - Hours Spent: 5
  - 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 believe that we were as productive as we had expected to be. We were able to accomplish all of our planned sprints, including scraping the website using Mechaml, parsing the results into a json file, and making a terminal that takes in a user input and outputs the potential bus route.

Signatures

The above report has been read and agreed upon on October 21, 2022 by: