Report Date: 12/09/2022

To: ematson@purdue.edu, ahsmith@purdue.edu and lee3450@purdue.edu

From: Chasing FOX

- Daye Kim (rlaek4793@khu.ac.kr)
- Hyun Roh (yeshyun@khu.ac.kr)
- Heewon Jeong (jhjmo0719h@chungbuk.ac.kr)
- Jihu Yang (zihooy@handong.ac.kr)
- Juwon Baek (21700340@handong.ac.kr)

Summary

- For the algorithm part, the risk score was scaled by 0 to 10.
- For the back-end part, the Flask API was updated to run the data analysis code using the os.system() method.
- For the front-end part, the Navigation function has been developed. and the overall UI/UX design has also been improved.
- For the paper, feedback was reflected and revised.
- For the presentation, script and PPT slides was made.

What Chasing FOX completed this week:

- Data analysis
 - Data analysis part was completed in week11.

• Algorithm

- The figure of the four recommended routes was drawn for the paper.
- In the process of passing the total risk score to the application, to compare the risk score of the routes absolutely, the risk score was scaled from 0 to 10 using the MinMax Scaler. The training set was the risk scores in every edge in Chicago, and the test set was the (number of edges/risk score of the route) from the route.
- Algorithm part is complete.

Back-end

- The Flask API was updated to run the data analysis python code. By using the os.system() method, a terminal was used to run this code in apache2.
- In the Flask API, considering when the number of waypoints is under 9 because the distance between the origin and the destination is too short, the code was updated to return the waypoints without an apache2 error.
- Back-end part is complete.

Front-end

- Added navigation button functionality to route recommendation page.
- When each route button was clicked, the error that the path was not drawn on the map was resolved.
- The color of the route has been changed to make it more visible.
- The UX/UI design of the application has been improved overall.

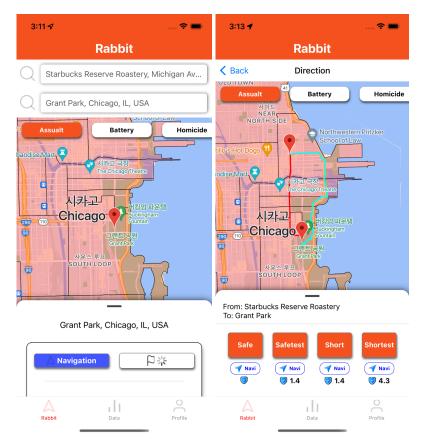


Figure 1. Input page

Figure 2. Route searching page

Paper

- Minji's feedback was reflected in the paper.
- Whole paper was read and revised.

Presentation

- Each part of the paper was assigned to a member for presentation.
- Each part of the script and PPT slide was made and revised.

Things to do by next week

- For the front-end, The app development will be completed with the process of configuring the icon and splash screen of the application.
- The presentation will be prepared including the execution video..
- The Q&A session will be prepared.
- The final paper will be revised.

Problems or challenges:

• For the front-end, When it took a long time to receive a request from the back-end server, there were difficulties improving the user's experience. For example, when a user modifies a profile the ability to request a route 30 minutes later.

References