Skybot

by Technica

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Second Iteration Demo

Demo Date:

Tuesday, December 4, 2018 at 7:00 PM

Github Repository:

https://github.com/TeamTechnica/Skybot

Challenges that arose before demo:

Ashna, our Project Mentor, gave us tips on how to improve our pre-commit configuration to allow developers to easily check in "in progress" branches. She also gave us advice on how to perform mock testing for app.py and explained to us the difference between unit testing and integration testing for our project specifically. While performing unit testing, it was noted that Heroku doesn't support databases that run using SQLite. We had to change our database schema so that it now uses a Postgres schema.

Challenges that arose during demo:

During our demo Ashna texted CU Skybot and while attempting to validate her uni, an error occurred where she was sent an "invalid uni" message. On her second attempt to validate her uni, the bot validated Ashna's uni and prompted her for her flight information and preferences. She then was added to our database and Klarizsa was then able to rideshare match with her.

CI Mechanisms Demonstrated

- Github repository
- SQLAlchemy
- Continuous integration using Travis CI
- Integration of Twilio API for SMS functionality
- Integration the SendGrid API for email verification
- Creation of Postgres Database for user data storage
- Use of Heroku Webhooks to handle requests
- Use of Codecov to measure code coverage integrated with nosetests

User Stories

At this stage in the development process, we were able to demo the following user story:

As a rider that is interested in creating a new Skybot user account. My criteria for satisfaction is that I receive a welcome message from Skybot when I first message the bot and to be prompted to enter my user information (UNI) in order to verify that I entered correct contact information and that I am a Columbia University student. *A verification code is sent to my email and as the user, I respond to Skybot with the verification code provided for me. Skybot then prompts me for my flight and user preferences. Given my user preferences, Skybot matches me with another flyer (if there is a match). I, and the people I am matched with, are then sent a text with one another's names and uni's.*

During the demo, Ashna was able to message the bot, provide her UNI, and receive a verification code via her Columbia email. Her number was added to the database and is stored as a user. *Ashna then provided more information about her trip such as the airport, date of flight, time of flight, and the number of extra passengers she is willing to ride with. Ashna was then able to be paired with a match and receive her match's uni and their recommended departure time.*

Use Cases

The Uses Cases that are italicized (and bolded) are the stories that are currently addressed by the functionality of our application. The final user case will be met in the final iteration.

- *Case 1: As a student, I want to know if other students are traveling to the airport at the same time as me so that I can save money on a cab. My conditions of satisfaction are: I get to the airport at least 2 hours before my flight; I don't want to spend more than 50% of the projected cost; I need a car that has space for two carry ons; I don't want to share a ride with more than 3 people including myself.*

- *Case 2: As a person with an early morning flight, I want to travel in a rideshare with other people so that I am not alone on my commute and feel safer. My conditions of satisfaction are that I get matched with another individual I approve with a similar departure time as me.*

- *Case 3: As a person who is new to the university, I want to travel to the airport with other students from my university and meet new people. My conditions of satisfaction are that I am paired only with other students from my university area.*

- Case 4: As a rider in a shared ride, I want splitting the bill to be seamless and hasslefree. My conditions of satisfaction are that the transportation cost is calculated, split, and collected ahead of time.