Project Group 3 – Sprint 0

Trello URL

User Stories

1. As a user, I want to be able to plan employee schedules while taking into account the current climate of pandemic.
2. As a user, I want to be able to use this software when we return to “normal.”
3. As a user, I want to be able to have enough staff, so people don’t wait in line for long during a lunch or dinner rush.
4. As a user, I want to be able to know when to stock ahead if there will be more customers coming due to a holiday, so staff does not have to stock during operation hours.
5. As a user, I want to be able to schedule for more employees in response to the weather.

Initial Design

* Programming language: Python
  + External libraries: random, statistics, csv, math, scipy,
* Inputs
  + A date (datetime)
    - Can be changed to complete user input (string)
  + Whether or not the weather is nice (bool)
* Outputs
  + CSV file for specific day containing one line per customer with:
    - The time a customer entered the store (float)
    - The amount of the customer spent in the store (float)
    - Whether or not this customer was rushing (lunch, dinner)
    - Whether or not this customer was a senior
    - Whether or not it is a nice day outside
  + Statistics for csv file
    - Total customers
    - Customers per hour
    - Amount of time spent per hour per rush
* Major abstractions and relationships