CIS-30A Intro to Python

Program Documentation

Delivery App

For my project, I plan on writing a business program that sticks within the parameters of the assignment, and chose a company that I feel comfortable with. I have never really been a huge fan of food delivery, and I’m aware that this particular has a pretty robust delivery app already, but I’d like to add my interpretation. I’m choosing Walmart as a delivery business, with the hopes to add my fundamental knowledge on building a basic program that can be used for the average consumer.

The first component I’m addressing is designing a program for individuals that have some type of physical handicap, and may not have easy access to transportation. In addition, the program is intended to be designed for the elderly who may be living independently. This program will allow for ease of ordering and simplicity of groceries to be delivered to individuals in need. Since is my target audience I want the design to be a smooth and simple as possible, and the intent is that word of mouth spreads so that the program can get more exposure.

The second component of reasoning to address are the solutions provided in the overall program. This design will be accessible to anyone in need of delivered goods, and there will be no charge provided there’s a certain minimum spent. The program will be non-discriminatory and will provide ease of readability and options for users to choose from. A pre-determined list of food items will be readily available for a user’s choosing, and for further emphasis, a receipt of their order will be printed and saved as confirmation.

As far as the algorithm explanation, the overall idea is to construct simple and easy to read variables that have ease of flow throughout the program. I think its most essential to create a separate module that can be imported into a main python program, which can then read class definitions and methods to be implemented within the main program. I think it would be absolutely essential to create either a list or dictionary of items to have as a pre-determined list for the user to select from, and have that printed/displayed on screen. Additionally, having conditions set up for if else scenarios is also key, along with loops should the user need a certain quantity of a specific type of item. My hope is to also implement some type of GUI system which can help with ease of readability.

In terms of the program objective, it is simply in place to be an added tool to help this specific population with special needs. It’s not intended to be confusing or flashy to push products. It is very direct in its use, and the overall goal is to provide a service of ordering and delivery to its user.

As the user is interacting with program, the information put in will determine the proceeding prompts. As a brief run through upon opening the program, the user will be met with a greeting and then food and delivery options to choose from. Additionally, a date and time option will be available, and the user will be able to select components that suits their delivery needs. With the exception of national holidays including Thanksgiving and Christmas most delivery days throughout the year will be available for the user.

When it comes to limits, error handling will be put into place. Specific hours and days will be available, and should a user want services beyond the preset boundries, they will be met with an error. Also, since this is supposed to be a simplistic process, the overall complication of the program will be extremely minor, and will have strict guidelines and options of items to choose from. Although groceries will be delivered, I as the engineer will decide what items will be readily available for the user to choose from.

Lastly upon potential limitation improvements, there might be a need to increase the amount of times an item may be selected within an order. Also, one improvement can also be increasing the available quantity of items upon selection, especially within the produce options.