

PROJECT PART 1

Business Python Program

CIS 30A

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1. Summary:

- **PROGRAM GOALS:** *Delivery APP's* goal is to make it easy to get groceries delivered to your front door saving the user time and energy. You can use our application If you are looking to fill up your pantry, get everything you need for dinner or if you want to buy technology.
- **FUNCTIONALITY:** *Delivery APP* was created to get groceries, essentials or more delivered to your door. With *Delivery APP* you can create a user account, place an order from a major supermarket and superstores like Walmart, Target, Costco, Best Buy, and Ralphs and shop for items from your phone. Once you are done shopping, it will display the items list, the cost of your order and you can set a delivery date.
- **AUDIENCE:**
 - People between the ages of 25 - 50 that are busy having demanding schedules.
 - People that dislike shopping and would like to avoid crowded places due the pandemic.
- **STRENGTH:**
 - Error handling.
 - Validation user inputs.
- **WEAKNESS:**
 - The program doesn't have a GUI to make the user interaction easier.
- **FUTURE IMPROVEMENT:**

- Improve the database.
- Incorporate a graphical user interface.

2. Pseudocode:

main.py

importing modules and classes

instantiating objects

for loop that prints that current stores in the app

validation check to see if the user inputs an acceptable data type

or the user inputs a number in the correct range

depending on what store the user wanted to access

the algorithm will display the current items in that store

loop to keep choosing to shop in the StopIteration

If user wants to stop they type N or Y if they want to keep shopping

validation loop to make sure the sure is choosing a number

in the correct range or inputting a acceptable data type

depending on what item the user picked

we'll call addtocart which returns the item from the store's item list

and then we'll add it to checkout which enters the item into the

customers checkout list

validation to make sure the sure is inputting y or n when asked to keep shopping

once everything is done call total to print out receipt

deliveryDate.py

Import datetime class from datetime module

variable with current date and time from user

#import datetime module

Error handling for the user inputted date,(can only be a date after today's date & can't be later than a year from now)

can't be more than a year later & cant be less then current year

same loops as the previous just checking for day and month

PersonClass.py

Person class with attributes

Person class function that prints person's Name

Enters Person data into txt file called userDataBase

Person subclass Customer

function to create a Customer

validation loop to have user input an acceptable username

validation loop to have user input an acceptable address

validation loop to have user input an acceptable city

validation loop to have user input an acceptable zipcode

print where the items will be delivered too

salesModule.py

open file called "receipt.txt"

set the amount of tax to be added

function that calculates and prints the total of all the items

in the customer's list

- for loop that adds all the items in the customer's list together

- prints the items and subtotal

- prints shipping amount

total amount which adds the tax to the subtotal

total cost of everything including subtotal, totalAmount, and shipping cost

calls for receipt to print out the receipt

function that prints out the receipt to a txt file

- writes the items in the customer's list to the txt file

- formats everything neatly using string format

- close the txt file()

storeClass.py

class store with attributes

store function to print store name

store function to show items in store

store function to add items into cart

store subclass called best buy that holds best buy name and items

store subclass called walmart that holds target walmart and items

store subclass called target that holds target name and items

store subclass called Costco that holds Costco name and items

store subclass called Ralphs that holds Ralphs name and items

class call app control that holds all the current stores in the app

and checkout list to process the items being bought

app function that compiles the current stores into a list

app function that returns the current stores to be accessed in main

app function that adds the item being bought into the checkout list

returns all the items in the checkoutlist so they may be bought