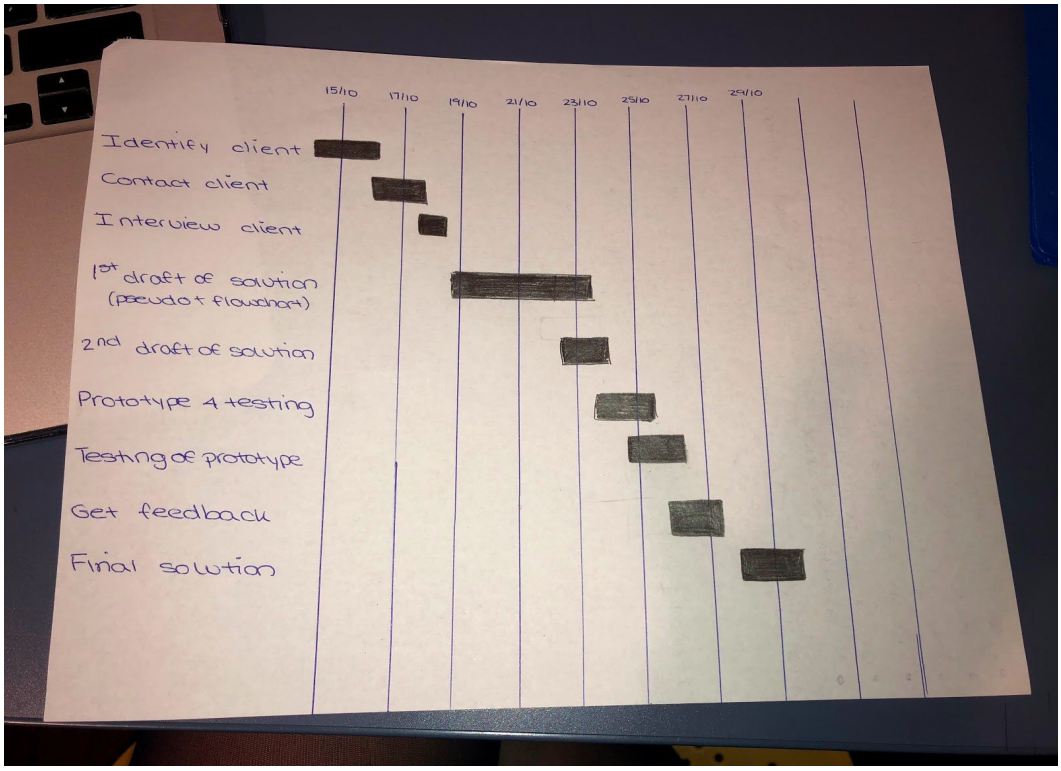
Reflection

During the first phase of my project, I created a calendar in order to organize my time accordingly to complete the project on time (Excerpt A). I then identified my client as Mr.Rodriguez, a man in charge of organizing monthly food drives for children with food provided weekly by adult volunteers. After contacting the client, I was made aware of the issue. His issue was mostly based on the difficulty of sending individual emails to every single volunteer with different random assignments on what specific food to bring and on what day to bring it. After interviewing Mr.Rodriguez, I was able to design a solution based on his needed criteria. During his interview (Excerpt B), Mr.R expressed what his problem was and key parts that the solution should include such as a chain of questions and answers that the receiver can answer. After interviewing Mr.R, I was able to create a flowchart (Excerpt C) as well as the pseudo code (Expercpt D) for a prototype of the solution. My original design included the main various key components that Mr.R had asked for such as a variation of dates from Monday to Sunday and different food options to bring. My prototype included a welcoming question at the beginning asking whether the receiver will be attending or not. This was followed by a message saying 'Sorry to hear that.What about next month?" if the person said no. The user would then input either 'Yes' or 'No', to which the program would output various messages accordingly. If the person originally said yes, the program would randomize a date and a type of food to bring. I chose this as my prototype because it hit all of Mr.R's original criteria that he initially gave me. Throughout this planning process, I also created a table of criteria in order to properly evaluate the success of my product at the end (Excerpt F). After he tested the prototype, I received some feedback from him. The first main component was adding another question for the receiver at the begging regarding the number of people that were coming to the food drive. Since the food drive was run by parents, the options were 1 or 2 people. Although not in my original design, I was able to implement this feedback in order to create a better solution for him. If the input was 2, meaning 2 people were coming, the greeting included 'volunteers' rather than singular 'volunteer' and 2 random days were assigned rather than one since there were going to be 2 people volunteering. All of this feedback I was able to use when creating my final program (Excerpt E). I also added formalities such as 'Regards' at the end in order to make the email look more formal, to Mr.R's request. Overall, the solution I created contained all of the main components needed to make it functional as well as some more components that make the program more useful in regards to use such as knowing how many people are attending.

References

Excerpt A: Image of the calendar displaying daily requirements for completion

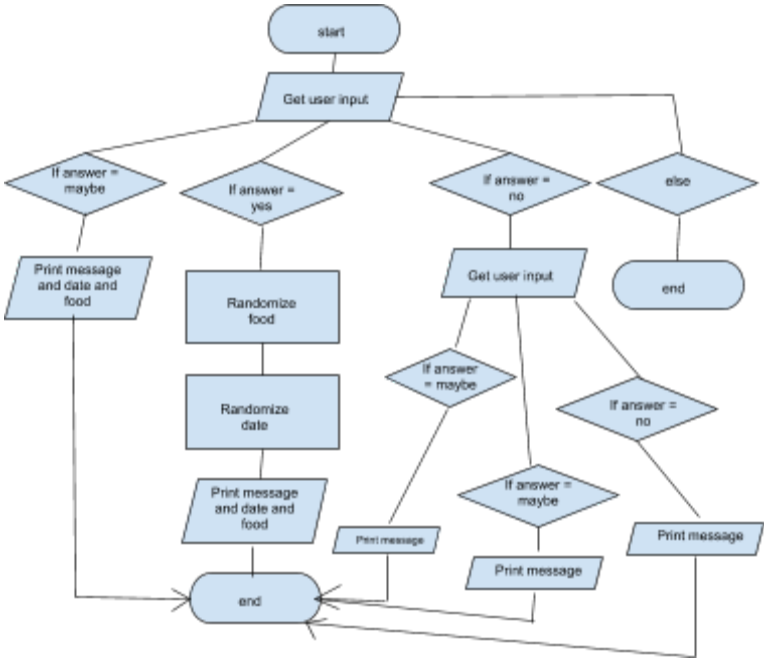


Excerpt B: After - Interview notes

Mr.R's specific needs for the solution:

- "Allows for direct contact with volunteer"
  "Has to include questions, answers and specific questions that follow each specific answer"
- "Fast and efficient way of contacting more than one volunteer"
- "Has to allow for me to assign different days and food to bring for volunteers that RSVPs yes"
- "Date options should run Monday-Sunday"

Excerpt C: flow chart



Excerpt D: Code and pseudo code for prototype

```
answer = input('Will you be willing to bring food for the food drive this month?')
if answer == 'yes':
        import random
        names = ["cheese", "meat", "chicken", "cookies", "donuts", "cake", "plates", "fruits", "vegetables", "fish"]
        guests = names[random.randint(0, len(names)-1)]
        import random
        days = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]
        time = days[random.randint(0, len(days)-1)]
        one = ('Perfect! Please make sure to bring')
        print (one + ' ' + guests + ' ' + 'every' + ' ' + time)
elif answer == 'no':
        response = input('Sorry to hear that. What about next month?')
        if response == 'yes':
            print('Thank you! We will get back to you in a few days on what to bring')
        elif response == 'no':
            print('No problem. Thank you for taking the time to answer.')
        elif response == 'maybe':
            print('Let us know.')
elif answer == 'maybe':
        print ('Let me know before Wednesday')
else:
        print ('Try again')
```

get user input 'Will you be willing to bring food for the food drive this month?'

if answer is equal to yes

randomly select one input from 'names'

randomly select one input from 'days'

print 'Perfect! Please make sure to bring' + randomly selected input from names + 'every' + randomly selected input from days’

elif answer is equal to no

ask user input 'Sorry to hear that. What about next month?'

if response equals yes

print 'Thank you! We will get back to you in a few days on what to bring' message

elif response equals no

print 'No problem. Thank you for taking the time to answer.'

elif response equals maybe

print 'Let us know.'

elif answer equals maybe

print 'Let me know before Wednesday'

else

print 'Try again'

Excerpt E: final program

```
        print ('Try again')
    print ('Regards, JB')
elif response == '2':
    print ('Dear volunteers,')
    one = ('Perfect! Please make sure to bring')
    three = ('Let me know before Wednesday')

    answer = input('Will you be willing to bring food for the food drive this month?')#user input again
    if answer == 'yes':
        import random
        names = ["cheese", "meat", "chicken", "cookies", "donuts", "cake", "plates", "fruits", "vegetables", "fish"]
        guests = names[random.randint(0, len(names)-1)]#random food selection of name
        import random
        days = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]
        time = days[random.randint(0, len(days)-1)] #random date selection of day
        secondtime = days[random.randint(0, len(time))] #additional time for the second person
        print (one + ' ' + guests + ' ' + 'every' + ' ' + time + ' ' + 'and' + ' ' + secondtime)
    elif answer == 'no':
        response = input('Sorry to hear that. What about next month?')
        if response == 'yes':
            print('Thank you! We will get back to you in a few days on what to bring')
        elif response == 'no':
            print('No problem. Thank you for taking the time to answer.')
        elif response == 'maybe':
            print('Let us know.')
    elif answer == 'maybe':
        print (three)
    else:
```

```
response = input('Would it be 2 people or 1 person?') #get input (input should be 1 or 2 here)
#end if/else statement
if response == '1': #for one singular volunteer
    print ('Dear volunteer,')

    one = ('Perfect! Please make sure to bring')
    answer = input('Will you be willing to bring food for the food drive this month?')
    if answer == 'yes':
        import random
        names = ["cheese", "meat", "chicken", "cookies", "donuts", "cake", "plates", "fruits", "vegetables", "fish"]
        guests = names[random.randint(0, len(names)-1)]
        import random
        days = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday"]
        time = days[random.randint(0, len(days)-1)]
        print (one + ' ' + guests + ' ' + 'every' + ' ' + time)
    elif answer == 'no':
        response = input('Sorry to hear that. What about next month?')
        if response == 'yes':
            print('Thank you! We will get back to you in a few days on what to bring')
        elif response == 'no':
            print('No problem. Thank you for taking the time to answer.')
        elif response == 'maybe':
            print('Let us know.')
    elif answer == 'maybe':
        print ('Let me know before Wednesday')
    else:
```

```
        print ('Try again')
    print ('Regards, JR')
else:
    print ('Try writing it in number form')
```

Final Pseudo Code

get user input 'Would it be 2 people or 1 person?' and store in var

if/else statement for choice

if input (number) is equal to 1

print "Dear volunteer," message

get user input 'Will you be willing to bring food for the food drive this month?'

if answer is equal to yes

randomly select one input from 'names'

randomly select one input from 'days'

print 'Perfect! Please make sure to bring' + randomly selected input from names + 'every' + randomly selected input from days'

elif answer is equal to no

ask user input 'Sorry to hear that. What about next month?'

if response equals yes

print 'Thank you! We will get back to you in a few days on what to bring' message

elif response equals no

print 'No problem. Thank you for taking the time to answer.'

```
                elif response equals maybe
                        print 'Let us know.'
        elif answer equals maybe
                print 'Let me know before Wednesday'
        else
                print 'Try again'
        print 'Regards, JB'
if input (number) is equal to 2
        print "Dear volunteers," message
         get user input 'Will you be willing to bring food for the food drive this month?'
        if answer is equal to yes
                randomly select one input from 'names'
                randomly select one input from 'days'
                randomly select second input from 'days'
                print 'Perfect! Please make sure to bring' + randomly selected input from
                names + 'every' +  randomly selected input from days' + 'and' + second
                  random selection from days
        elif answer is equal to no
                ask user input 'Sorry to hear that. What about next month?'
                if response equals yes
                        print 'Thank you! We will get back to you in a few days on what to
                        bring' message
                elif response equals no
                        print 'No problem. Thank you for taking the time to answer.'
                elif response equals maybe
                        print 'Let us know.'
        elif answer equals maybe
                print 'Let me know before Wednesday'
        else
                print 'Try again'
        print 'Regards, JB'
else:
        print 'Try writing it in number form'
```

Excerpt F: table of criteria

Does not meet expectations	Meets expectations	Exceeds expectations
Product is unable to properly respond to user input	Program is able to respond to user input sometimes	Product is always able to respond to user input
Product does not allow for user input	Product allows for user input at least once	Product allows for user input at least twice
Product includes no formalities such as “Good morning”	Product includes some misplaced formalities	Product includes well-placed formalities
The range of choices for date is of 3 days	The range of date choices is between 4-6 days	The range of date choices is of 7 days (all days of the week)
There are less than 3 food choices	There are between 4 - 9 food choices	There are 10 food choices