

Midterm Personal Project Write

Working on this group project was a first for me when it comes to coding and designing a program. I had never worked on something of this scale, either individually or in a group. First, I want to start by saying that the people I worked with were all great. It was a crazy journey from the first day of class when we first met each other, until now, nearing the end of the semester. I really was never a proponent of group assignments, because I like the feeling of working alone, but this group assignment really changed my perspective on it. Participating in this group assignment really taught me some concepts along the way.

The first thing I learned was that four months was not a long enough period to add in all the ideas and concepts we originally had for the program. I remember you telling us to add in a lot of ideas in the beginning, and as the deadline started coming closer to scrap whatever is not that important. This project really has me understanding why the development cycle of a program takes years to happen. Making sure all the code works with each other and the graphical user interface working alongside the code doesn't just happen in a few months, especially if you're creating code from scratch. So, all in all, the number one thing I learned was having to scrap all the unimportant things and just add the important stuff.

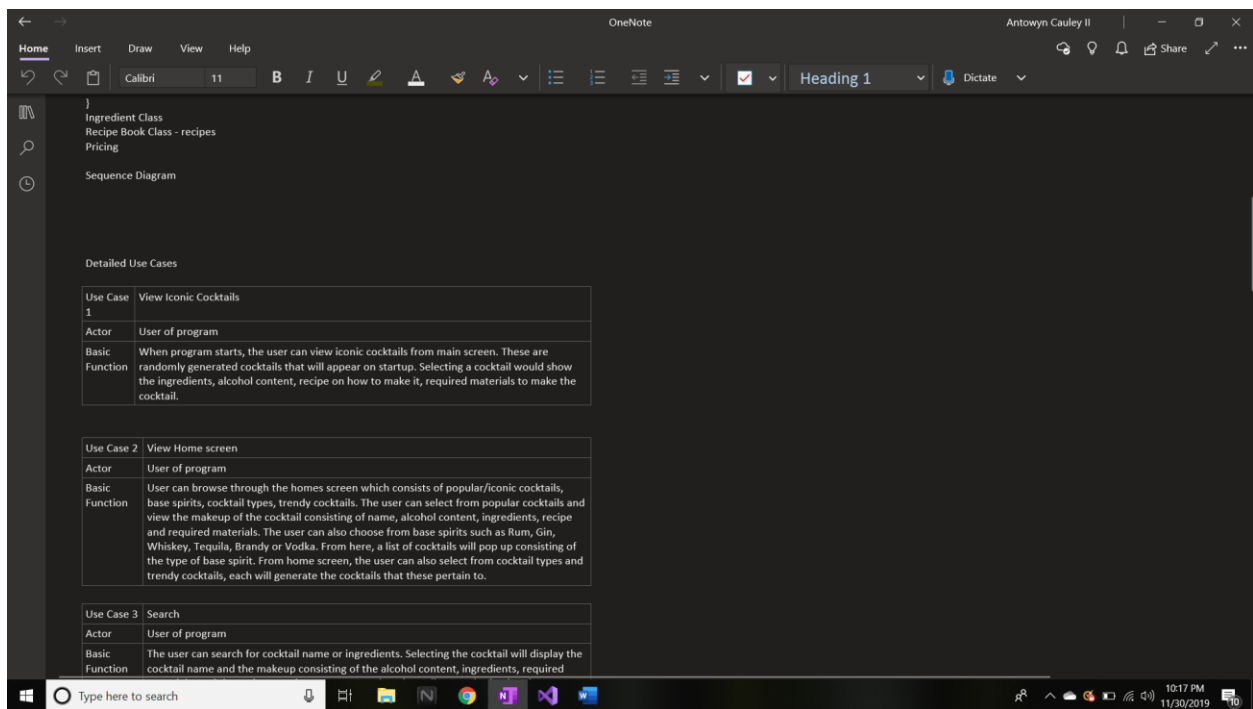
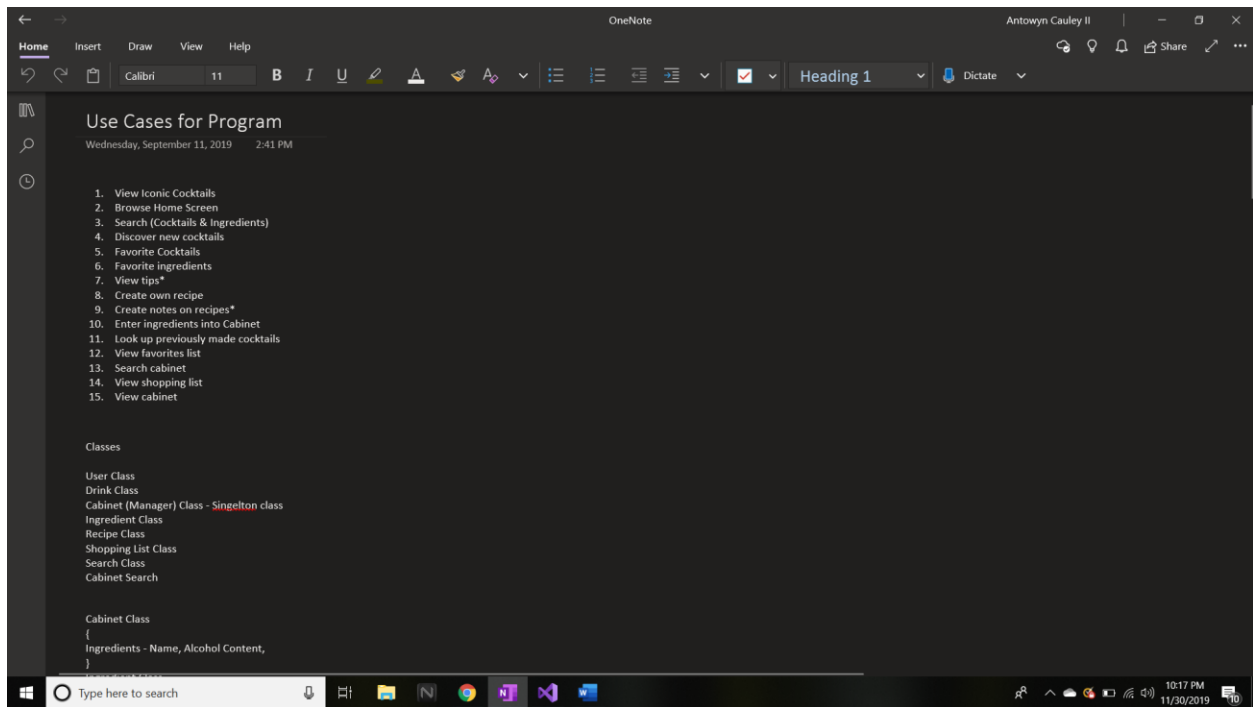
Another thing I noticed was that the hardest part of working on the group assignment is just getting everyone together and getting everyone's ideas on the same page. With everyone working on different parts of the program, it was quite difficult to make sure that my code that I type up can work

perfectly with someone else's code that they were typing up. GitHub was perfect in this scenario, and this was the first time I was introduced to it as well.

I contributed a good portion of the code for this group project. I designed the Drink class, as well as a Read class that reads different drinks from a text file and stores them in a container called Maps. Attached to this will be screenshots on the code that I worked on. I also developed a lot of the use cases that we originally came up with. We ended up with 15 original use cases for our program. I wrote in detail a good portion of the use cases as well. I came up with the Search and Favorite Cocktails search cases. The UML design that we chose was the sequence diagram. We figured this was the way to go because the user would have a lot of interaction with the program. The user/actor could interact with different cocktails, as well as search and favorite them. The diagram showed in different ways that the actor could interact with the program.

For the coding portion, I worked a lot on the actual drink class and the recipe class. I also made another class called "Read" that could read a text file in the format that I created, and in a while loop create drink objects and store them all into a map container. This map is implemented as a binary search tree, so storage and speed for searching for these drinks is optimal. From this moment on, I plan to help my group with the GUI because that is where we were having the most trouble with, mainly because most of us didn't really know it at all starting this group project. I also plan on helping mostly with our presentation with the professor soon.

Attached to the next pages are snippets of code, UML and use cases that I worked on.



OneNote

Antowyn Cauley II

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Use Case 4 Discover new cocktail (Random)

Actor User

Basic Function On the home screen, the user can select a "Discover a new cocktail" link. Clicking this link will pop up on the screen a randomly generated cocktail from the database of cocktails. It will show the makeup of the cocktail consisting of name, alcohol strength, ingredients, required materials & recipe. Backing out and clicking the link again would generate another random cocktail for the user.

Use Case 5 Favorite Cocktails

Actor User

Basic Function When the user selects a cocktail, they can click a favorite option. This will essentially add this cocktail to a list of their favorite cocktails.

Use Case 6 Favorite Ingredients

Actor User

Basic Function When the user selects an ingredient to use, they can favorite the ingredient, and this will add to a user-created list of all their favorite ingredients.

Use Case 7 View Tips*

Actor User

Basic Function When the user selects a cocktail, they can browse the contents of the cocktail. One of the categories they can choose is tips on how to make the selected cocktail. The tips will have different styles and tricks to help the user make the desired cocktail.

Use Case 8 Create Own Recipe

Actor User

Basic Function This function will allow the user to create their own personal recipes for cocktails. These user-created cocktails will be added to a list of other recipes that the user has created before as well. The user will be able to name this customized cocktail and reference back to it whenever they desire.

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OneNote

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Heading 1 Dictate

Use Case 9 Create Notes on Recipes*

Actor User

Basic Function The user will have a section called "Notes" where they can add any kind of notes for creating cocktails, whether it be changing ingredients of a cocktail, or reminders for themselves while creating a certain cocktail. These notes will be stored and the user can always go back and edit, add, or remove notes from their list of user-created notes.

Use Case 10 Enter Ingredients Into Cabinet

Actor User

Basic Function The user will have their own personal virtual "Cabinet" which will include all of the alcohol and ingredients that they own to make drinks. This cabinet will be used to store everything the user has, including garnishes or edible ingredients for cocktails. As the user buys more ingredients in the real world, they can add these ingredients into their virtual cabinet, and it will be stored there. From here, the cabinet will give you possible cocktails that can be made by seeing what ingredients are in the cabinet.

Use Case 11 Looking up previously made cocktails

Actor User

Basic Function The user will have their own section where they can look up previously made cocktails. Every cocktail that is made from the ingredients of their virtual cabinet will be stored in a list of previously made cocktails. The user can then quickly access these if they desire to make the same cocktail.

Use Case 12 View Favorites List

Actor User

Basic Function While the user is looking through the database of cocktails, for each cocktail page, there will be a button where they can favorite the cocktail. These cocktails will be the users favorite cocktails, and clicking on this favorite button will add the desired cocktail to a user-created list of favorite cocktails. The user can quickly access this favorites list to see

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