Ver2.0 Planning document – school canteen

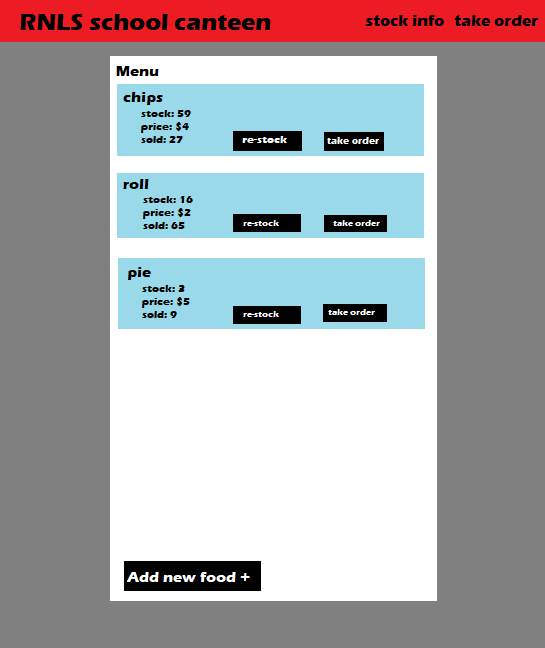
Task 0: Explain what you are doing/ going to accomplish:

I am going to create a website that manages a school canteen, it will manage the stock of items on the menu and students will be able to order food. I will create a program that stores the students name and what they ordered in an array. The inputs will be processed with a python bottle program and displayed on an html website.

**This version:** This is going to be a large version, in this version I will add the features to manage stock levels and add new items, primary focus around a page that is going to display cards, each card will display the info of each food item (name ,price, amount sold, amount in stock). It is pretty much an interactive menu.

Task 1: Sketch interface design

*Draft a* ***rough*** *design for the interface that allows the user to trigger functionality in task 1, while also annotating where the information in task 2 will be displayed. Create another sketch listing the interface widgets used to create the interface.*



Task 2: Identify any classes required

*Explain what the class will represent, plus listing what information will be stored in the class and any functions the class will have.*

No new classes needed

Task 3: Identify information to be displayed

*What information will the interface need to display to the user?*

There will be:

* A page that displays food item, stock level, price, food items sold. (stock info)
* A re-stock page for specific items
* A re-stock success page, confirms to the user that the action was successful
* A add a new item page
* A success page for the new item page, confirms to the user that the action was successful

Task 4: Identify user inputs

*What program functions can the user trigger through the interface?*

* The re-stock page will take any number from the user, this will “trigger” the re-stock-success function.
* The new item page takes 3 inputs, first is the name(string), then it takes a stock amount (integer) and price (integer), the function that the user will trigger is the new item success page.

Task 5: Identify any constants or existing data if required

No new constants created

Task 6: Identify indexed data structures

No new index data structures in this version

Task 7: Determine what calculations are necessary

*Write out the calculations the program will have to compute.*

There will be calculations for re-stock page.

It will be the user input plus the previous stock level

Something like:

Stock = stock + restock\_value

Task 8: Develop a modular structure for your program

*Describe any functions that the computer program will have, identifying any sub-functions where required.*

Task 9: Define the functions identified

*Describe the functions for both the main program and any classes in terms of input and/or output where required. You may choose to do this with flow charts or pseudo-code (not Python code!). Add in additional steps or explanations using sequential, conditional, iterative statements where required. Identify global and/or local variables.*

Stock info:

Restock:

Re-stock success:

New item:

New item success:

Task 10: Address any relevant implications such as usability, functionality, legal/ethical requirements.

When designing my website, I will take into account the implication of usability and functionality, meaning buttons will be ladled, a colour scheme that is easy to look at, the layout will make sense and be very basic, a school canteen website does not need to be complex, Because I want kids or people who arnt so good at computers to be able to run my program. The website should not breach and legal and ethical requirement, it will follow copy right laws, won’t be offensive etc..

Task 11: Document test cases for testing the program

*Document any testing that can be used to test your program. If any input is inputted using the keyboard, describe the expected input, plus any exceptional, boundary or invalid cases.*

|  |  |  |  |
| --- | --- | --- | --- |
| Test case | expected outcome | actual outcome | Test case fix |
| 1. Re-stock page:  Negative number: “-5”  string: “test”  normal number: “5”  Large number:”1337” | - the Negative will decrease the stock  -the string will give an error  - the normal number should work as normal  -the large number should work as normal | -decreased the number of stock: -5  -gave an error  -worked as normal, stock:5  -worked as normal, stock: 1337 | **->**I will add an if statement that detects if stock has gone below 0 and set it back to 0 – I decided make it let you input a negative number, This could be a handy feature for when stock is not sold but disappeared another way, like being damaged or stolen.  **->** I changed something in the html code that won’t even allow the user to input anything else than a number: type=”number”  This is built in feature of materialize  ->no fix needed  ->no fix needed |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |

Task 12: Refine the plan

*Note any modifications here when iterating through the development cycles.*

Task 13: Document testing

*Show screenshots of your program working with descriptions of each image. These images should test the tests cases listed above.*

Task 14: Evaluation

*How did your version turn out?*

One problem I came across was the possibility of the user inputting negative values in the re-stock quantity as seen in test case 1, I have decided to keep this feature though, It is a handy feature to remove stock without actually selling it