Red Thread Project Plan

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| Week | Goal | Example feature |
| 1 | Create a ‘Food’ object and a way to store them with necessary attributes. | foodID  type  status  useByDate  usagesLeft |
| 2 | Methods for counting types of food+Usage number for each item. Number of full meals output. | One pack of cheese can last 3 meals so if I have 2 packs, numCheese()=6 since 6 meals worth. I have everything I need for 2 whole meals. |
| 3 | Make it possible to “open” food and reflect corresponding change to use by date. Able to decrease usage number of food. | A pack of cheese has been opened so I change the use by date to 3 days from now unless the natural use by is closer to the current date. I have used the pack of cheese once so 2 usages remain. |
| 4 | Make system know current date. Deletion feature. Auto-delete if out of date, delete when usages=0 | I have used up a packet of cheese so that cheese is no longer considered in the system. |
| 5 | Decision making- What to buy. | I have a full meal except for cheese so I need 1 pack of cheese to make a meal. |
| 6 | Testing, Cleanup, Features missed? Interface? | If no food, does anything break? |

This is a system for keeping track of what food I have in my fridge. When shopping, I sometimes buy too much of a certain food type (for example buying an extra pack of vegetables) so having a way to know exactly what I need to complete any meals I’ve already bought some food for is a useful idea for me. It should be able to tell me how many full meals I have and leftovers after discounting the full meals so I’m buying the right things to complete the meals. I am not particularly competent at python e.g. I had to look up if it was object oriented to make the plan, so a lot of the skills I am learning through this are basically getting to grips with the language. Furthermore, my plan will mostly be a basis for things I can add later to show off skills I learn in class, hence I will endeavour to be flexible with changing the layout for something better or adding new features etc. One of the main skills I aim to show at this stage is that I can build a pipeline for the processing of data, which should already be apparent to some extent in my plan. The skill I am hoping to develop the most is my time management. Making sure a notable change can be seen week to week according to my plan should give me the motivation I need to do steady work on the project.