EEE111 SP1 Documentation

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1 Introdution

This is the documentation for my EEE111 SP1 submission. Included here is documentation for each user-defined function, rationales for how the logic is written, how user commands are executed, etc. A reference for each user-defined function and class is also included.

2 Documentation

2.1 Overview of the program

The program is a CLI supply and inventory monitoring program, created for a hospital, based on the EEE111 SP1 specifications provided. It accepts user input, and allows the following commands (in docopt form):

```
<file_name:str> needed_now
<file_name:str> needed_in <X:int>
<file_name:str> runs_out
<file_name:str> <N:int> run_outs
help
exit
```

- `<file_name:str> needed_now` prints out the amount needed to fulfill the item shortage for the current day.
- `<file_name:str needed_in <X:int>` prints out the amount needed to fulfill the item shortage for the following `X` days.
- `<file_name:str> runs_out` prints out the first item to run out, and in how many days it will[1].
- `<file_name:str> run_outs` prints out the virst `N` items to run out, and in how many days they will[1].
- `help` prints out the help text.
- `exit` exits the program.

2.2 Input file

The commmands `needed_now`, `needed_in`, `runs_outs`, and `run_outs` takes in a `<file_name:str>` parameter, which is a string corresponding to the filename of the CSV file containing the hospital's supply database. This file can have a variable amount of rows, but the amount of columns is fixed. These columns are as follows:

1. Item name: str
2. Item current amount: int
3. Item daily usage: int

[1]These commands will sort in this order in the case of conflicts: by amount of days to run out (ascending), by amount of deficit (descending), and by lexical order of their names (ascending).