CS 200 Final Project – Advising Queue

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Project Description:

If you drive a car, chances are you have been to the DMV. To combat people standing in long lines, they implemented a ticketing queue, where a person checks in at a kiosk and is given a number, and then can sit down while retaining their place in line. For my project, I want to try to re-create this queue-ticket system, and implement it onto a POS kiosk, alongside an EPSON receipt printer. Instead of the DMV, the ticketing system would be for walk-ins at an advising office. There would be separate queues for each advisor, and the walk-in would be randomly (or load balanced) assigned to one.

Topics used:

A)

1) Searching for users in a queue/ by queue

B)

1) File I/O -> Printing to printer and exporting data to a file

2) Inheritance -> Will be used for the different advisors, where each shares a parent class/abstract class/ or interface.

3) User-Defined Methods -> methods will be used for different GUI selection.

4) Exceptions -> User input will be verified, and error messages will be handled in the GUI.

C)

1) Collections -> Queues

2) Graphical User interface

Pseudocode:

The structure of this system can be seen below in this (semi-flow) flow chart:

A piece of paper with writing on it

Description automatically generated