Canadian University Dubai

**Token Dispensary Project**

Abdulla Sharif (20160004770)

Bakhodir Ulugov (20190007574)

Professor Said El Naffar

Faculty of Engineering, Applied Sciences and Technology

Abstract

This project is meant to educate us on the use of request and FastAPI modules in Python along with PySimpleGUI. The objective is to allow clients to print tokens to join a customer queue, of which service agents will be notified and can request to serve a customer once on duty. Data is compiled in a dictionary format on the API which calculates number of tokens, average waiting time and such for a statistical report. The tokens themselves are serialized uniquely and display the current date and time.

# Graphical Interfaces

Both interfaces were created using the PySimpleGUI module and the logos were taken from Aster Pharmacy (photoshopped for transparency and size). The client UI is simply a button box whereas the agent UI utilized multilines and more button boxes.

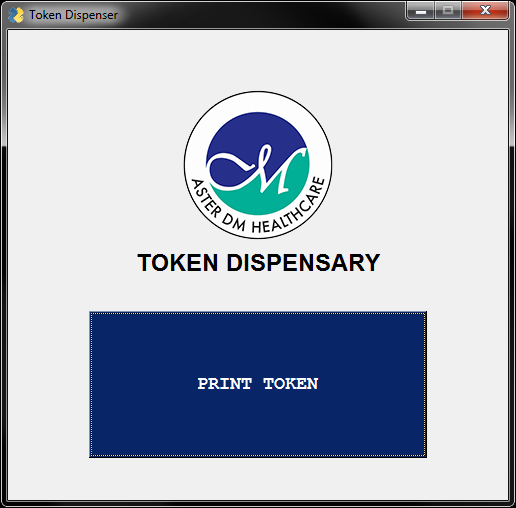
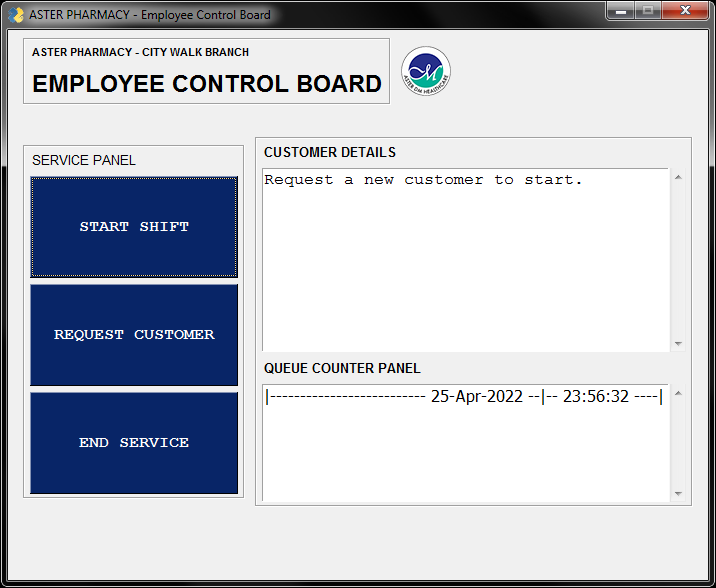


Fig. 1) Client GUI.



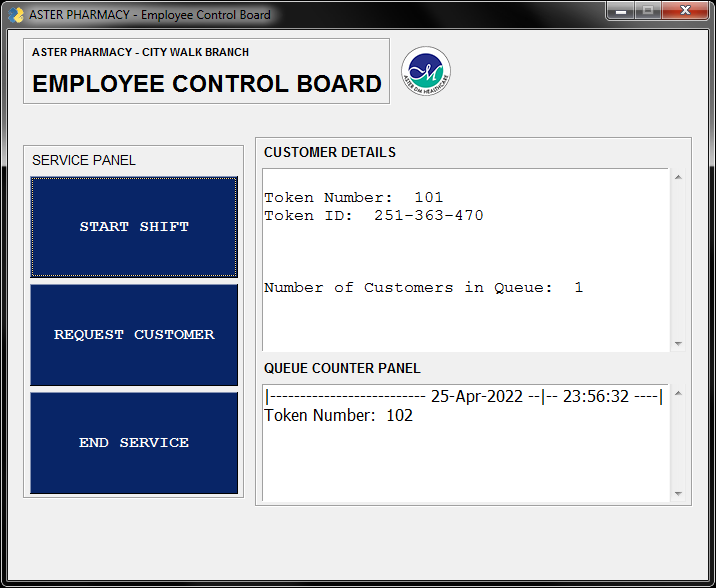


Fig. 2) Agent GUI, default. Fig. 3) Agent GUI, during service.

## FastAPI1

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