Low-Fidelity Prototype

Demonstration of where we are and what changes need to be made:

Graphical user interface, text, application, email

Description automatically generated

Low Fidelity Prototype with the following features to be added in concert with last code submission on Github Repo:

1. Menu bar provides three features
   1. User mode shopper, which is default, allows the user to see current store capacity upon entering valid credentials
   2. Optional to user mode shopper, after seeing current store capacity, a button will be used allow them to begin shopping, adding items via a linked list. If item does not exist, the program will e-mail a manager to either update stock or Ignore
   3. About panel lists general facts and help for the user

Fig 1. The opening screen

Fig 1a.

Graphical user interface, text, application, email

Description automatically generated

As demonstrated here, the ability to switch between modes is available, and screen changes available once acceptable credentials have been added

Figure 2: Shopper Mode

Graphical user interface, text, application, email

Description automatically generated

Upon providing valid credentials as a shopper, the users name is retrieved, and current store capacity is displayed. The final version will accurately display the user’s name, show what percentage of capacity the store is currently at along with a recommendation to the user to come to the store at the present or wait. If the store is currently at capacity, the number of people waiting in line will also be displayed. A button will also be added to allow the user to begin online shopping.

Figure 3: Manager Mode

Graphical user interface

Description automatically generated with low confidence

Once valid manager credentials have been accepted, the managers name will be displayed, along with current store capacity. If the company has issued new Covid-19 guidelines per internal recommendations or new government guidelines have been issued, the manager will be alerted at this screen. The manager can then be prompted to change the store capacity to meet this change in this window in future versions.