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Term Project Topic

The user will take on the role of the General Manager of Audiovana, a local store in Boston that sells MP3 players of all makes and models. The store prides itself on having a never-ending supply of the best devices on the market and a wide customer base that loves to jam out to great music.

As the GM, one of your many responsibilities is to manage the inventory and update counts for reporting and analytics purposes. When new products come in, you will need to add the details to the system. If a product is renamed/rebranded, you will update all new information about the product. Finally, if we have a sale or ongoing promotion, the prices of the products will need to be updated so that customers know how good of a deal they’re getting.

All these tasks will be completed through the Inventory Management Program (IMP). The IMP is an interactive command-line text program that allows the user to:

* View product and inventory information
* Update product attributes such as name and price
* Add new products to the store's inventory
* Update inventory counts based on sales and replenishing stock
* Compare prices between two products

Upon starting the program will request you enter your first name and last name, along with a password. Once in, you will be greeted by a main menu screen that will have various options listed for each task the user must be able to do. The method of selection for each option is to enter the character that is in parentheses (*ex.* (P)roduct, the selection character is “P”). The terminal will prompt you on which characters are valid options for a question.

In the background of startup operations, the system will initialize a default starting inventory of the top 5 selling products all with a daily starting quantity of 10. As the day progresses, the user will update the inventory counts and product info as necessary. Once receiving the list of updates, the manager will navigate through the prompts and enter the required information before confirming. Once finishing all necessary transactions, the user can quit the program.

The attributes of each product are stored in the system and will refresh upon login. In future releases, achieving persistence will be the main priority so that the user will not need to update information all over again. Another feature that will be added is a tracker that will keep track of all inventory transactions to perform further analysis to determine the appropriate frequency of restocking.