UNIVERSITY OF CALOOCAN CITY

COMPUTER ENGINEERING DEPARTMENT

Data Structure and Algorithm

Progress Report No. 2

Sari-sari Store Inventory System

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I. Objectives

This activity is the continuation of the Progress Report number 2, wherein we are aiming to add a few features. Here are the following objectives we've come up:

- To implement a reliable database system storing and managing users, inventory, and sales records securely and efficiently.

- To make a better user-interface design compared to the first progress report

- To add new key features for the inventory management such as search item

- To add a real time and date feature for easier access

II. Methods

In the second part of the progress report today, we've come up with new features to add to our system. One of which is a search bar.

In this progress report, we added a search bar and have a real time date and time and we added a quantity bar for our future key feature to our program, we used search_item( ) to add the search bar into our interface, and update_item( ) in the bottom of the search bar list, this will filter items using an SQL like query, and The whole program runs inside the App class, and at the bottom, the code calls init_db() to make sure the database is ready, and then starts the Tkinter application with app.mainloop( ).

III. Results

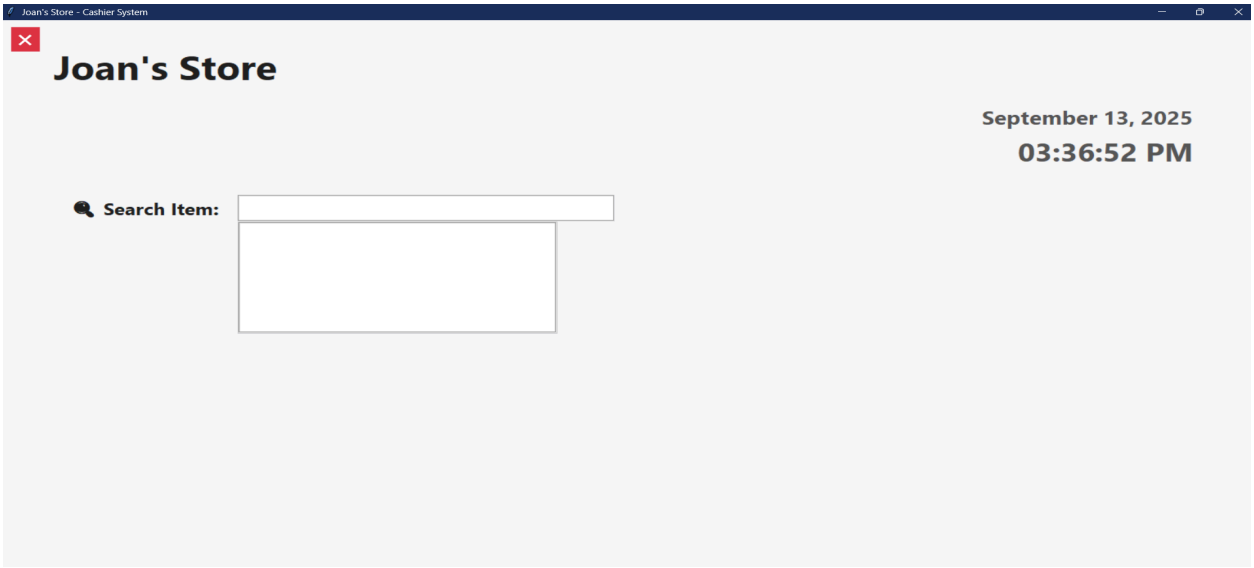

Figure 1: User Interface

This picture shows an improved version wherein we added a search option and added real time and date on the upper corner area.

Figure 2: Store Name

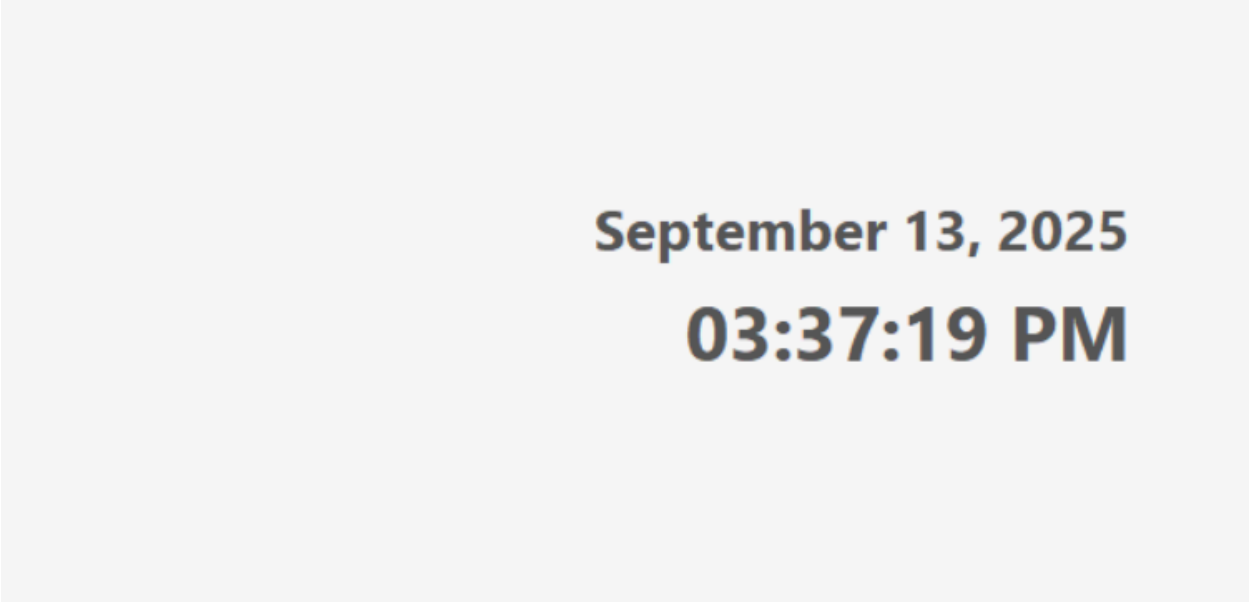

Figure 3: Real time and date

This is still just the basic/ tentative platform for the key features of our system,

IV. Conclusion

The second interface, besides showing a real-time date, shows a customized search field for fast searching for products and records. To extend the capability of the cashier system, we are also developing important buttons of interactivity such as “Add Item” and “Add Stocks” which will simplify the daily sales and inventory management. The next feature we intend to add to the system is the dedicated Storage Room module which will serve as the central place for inflow, outflow, and assessing the overstock in an organized manner. The overall system efficiency will rise, and the staff and the system admins will experience a system that is less complex and more satisfying to use.

In conclusion, we’ve added a few features for the betterment of the user's experience. We are aiming to add other features which will be shown on the next progress report.

References

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