**Module 05 – Course Project Story Board**

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Microsoft C# Programming

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Module 05 – Course Project

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**Memorandum**

Date: May 4, 2024

To: Development Team

From: Tim Mastarone

Subject: Improving the Sales Receipt App with a GUI

This memo is to address concerns about usability of the Sales Receipt console application. The testing team has encountered some potential issues, and the marketing team would like to see a more user-friendly interface. We can make this application more accessible, robust, and intuitive for the user by adding a graphical user interface. The attached story board is a high level explanation of the approach I am suggesting. In addition to creating a better user experience we can add functionality with ease by utilizing the WPF and .net frameworks for user interfaces. The next section describes some advantages and disadvantages to this implementation.

**Pros**:

* More intuitive
* Less error prone
* Added functionality/features
* More accessible to different user types

**Cons**:

* Increased development time
* Less portability
* More potential issues to debug

**Story Board for the proposed user interface**

The application opens and the main window is displayed:

A screenshot of a computer

Description automatically generated

The user can select one of 4 options. The buttons direct them to one of the following 4 pages (New, Edit, Enter Sale, or View). The customer can exit the program by clicking the ‘X’ in the upper right corner.

**New Customer Window**

A screenshot of a computer

Description automatically generated

The user can enter all their information. When a field is invalid, the label or text can appear in red to indicate a format error. The Submit button could also turn green if all fields contain acceptable values.

The customer can return to the main window by clicking the ‘X’ in the upper right corner.

**Edit Customer Window**

A screenshot of a computer

Description automatically generated

The user will be able to select the customer to edit from a list. This is a major improvement over the console application as they will not have to blindly search for an entry. The fields can also validate data and change colors based on the values contained in the text boxes.

**Enter Sale window**

**A screen shot of a computer

Description automatically generated**

The user can enter the quantity of each item they will be purchasing. This will allow them to view the cost total and individual details about items. When they are done entering items, they can click the ‘Enter Sale’ button to finalize the entry and see the receipt.

**View Customers/View Receipts window**

A screenshot of a window

Description automatically generated

Like the Edit window, the customer can select a user from a list. The lower container on the page will display a list of the customer’s past purchases.

By using the same grid view as the Edit window, we can reduce development time.

**Conclusion**

Adding a GUI to this application will add development time on the front end of the application, but if implemented properly, we can save time in the long-term. By making a more intuitive solution for our users to interact with, we can increase sales efficiency and reduce errors. This change will also increase our ability to add functionality later.