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**KULLIYYAH OF INFORMATION & COMMUNICATION  
TECHNOLOGY**

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**BICS 1304 OBJECT-ORIENTED PROGRAMMING  
SEMESTER I, 2025/2026  
SECTION 2**

**REFLECTION ASSIGNMENT #2  
IIUM MART INVENTORY ASSISTANT  
(MIA)**

**PREPARED BY: GROUP 5**

NAME	MATRIC NO.
MUHAMMAD ALIF SYAZWAN BIN SHAMSOL MADZLY	2427845
HARIZ ARIFFIN BIN ABD MALEK	2429835
MOHAMMAD JOHAN HAKIMI BIN ARSAD	2425961

**LECTURER**

**PROF. DR. NORSAREMAH SALLEH**

**DUE**

**4<sup>th</sup> JAN 2025**

## **REFLECTIONS**

### **1. MUHAMMAD ALIF SYAZWAN BIN SHAMSOL MADZLY (2427845)**

In this project, I designed the layouts for the MainScreen and login interfaces using basic JavaFX containers. I used a BorderPane for the main menu to separate the header from the central selection buttons. For the login forms, I used a VBox to stack the text fields and their labels vertically. A major challenge was getting the alignment right; at first, the buttons and text fields were stuck in the top left corner of the window. I used the Pos.CENTER and added Insets to the VBox, trying to get the login form centered on the screen. This process taught me how to use an HBox, placing it inside a VBox to line up the "Back" and "Login" buttons, which helped me build a more organized interface.

### **2. HARIZ ARIFFIN BIN ABD MALEK (2429835)**

My task was to design the CustomerDashboard with the use of layout components to arrange a UI. A TabPane was used as the container to enable the transitioning between the "Search" and "Cart" displays, and an HBox was used in the search bar to keep the search entry field and the button in a horizontal line. One of the biggest problem experienced was when resizing the window, which the TableView did not stretch to fill the space when the window was widened. The solution to the problem was realized to put that VBox.setVgrow(table, Priority.ALWAYS) it provides a dynamic growth of the table to take up as much space as possible.

### **3. MOHAMMAD JOHAN HAKIMI BIN ARSAD (2425961)**

I built the StaffDashboard interface, concentrating on the arrangement of intricate forms for inventory control. To display orders, I employed a ListView within a BorderPane, and I designed a dialog window for adding new items. The primary problem I faced was correctly nesting the layouts. When I first constructed the "Add Item" form, the labels and text fields appeared cluttered when simply placed in a vertical list. I had to figure out how to enclose each Label-TextField pair within its own HBox, and then incorporate those HBox into a main VBox to achieve a grid alignment. This process significantly enhanced my skill of utilizing setStyle for background colors and how to nest various containers to create a polished layout.

## INTERFACES PREVIEW



