

## Criterion A



Source: HYPEBEAST

<https://hypebeast.com/2020/1/sneaker-trends-year-forecast-predictions-nike-adidas-olympics>

Client: Kazi Ayman Masud

Occupation: 19-year-old reseller of shoes

### **Problem Statement:**

Mr. Masud has difficulties in making educated speculations regarding the profitability of buying shoes for retail and their possible profit return. Additionally, it is difficult for him to keep track of his shoe inventory.

### **Scenario:**

The client, Mr. Masud, is someone who buys shoes for retail prices. Then he may store, or directly resell the shoe at a higher price. According to Mr. Masud, these shoes are bought “for retail that usually go up in value, so like sometimes I keep and hold on to them and then sometimes I sell them like

directly”<sup>1</sup>. He mainly deals with veblen goods (high-status shoes with strong public appeal), therefore are unpredictable whether they will be as profitable. The greatest difficulty in the success of the reselling, as stated by Mr. Masud “is determining which shoe would profit, which style would profit, and which specific size would profit.”<sup>2</sup>. The speculation is the main problem for the client, especially due to the fact that the consumer market for these shoes are quite unpredictable in terms of their success ratio.

### **Rationale for Proposed Product:**

Utilising a database would aid in providing a more simplistic, and organized manner of displaying inputted data. Creating a searchable database would allow for a more efficient access to the data required<sup>3</sup>.

Java being a pioneer in OOP possibilities further justifies its use. The use of OOP would help the efficiency due to its ability to prevent errors by having objects hide information that shouldn't be easily accessed. Increasing the organization of the program, which would further benefit the efficiency in creating the program.

Java's inheritance and polymorphism would benefit the organizational structure of the code, benefitting the efficiency in creating the program with organization and classification. The benefit of the Java Virtual Machine is that it is platform independent, therefore it is more adaptable to the various computer platforms, in comparison to other languages.

The use of Netbeans IDE, over other IDE's, is mainly due to its proficiency. The use of Swing, over AWT, was utilised mainly due to the evident richer set of interface components than the AWT. The lightweight components of Swing make it more efficient and consistent across all platforms, rather than AWT.

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<sup>1</sup> Kazi ayman Masud, Interview by author, Bangkok, November 16, 2020, transcript answer # 1, Appendix A

<sup>2</sup> Kazi ayman Masud, Interview by author, Bangkok, November 16, 2020, transcript answer # 7, Appendix A

<sup>3</sup> Kazi ayman Masud, Interview by author, Bangkok, November 16, 2020, transcript answer # 9, Appendix A

## Design Prototype:

The design prototype consists of five screenshots of a web application interface for shoe inventory management. Each screenshot shows a browser window with a menu bar (File, Edit, Help) and a navigation bar with tabs: Home, Buying, Selling, Inventory, and Sales History.

- Top Left Screenshot:** The 'Home' tab is selected. The main content area displays a welcome message: "Welcome Back! What do we want to do today?". Below the message are four buttons: "BUY", "SELL", "INVENTORY CHECK", and "PROFIT/LOSS CHECK".
- Top Right Screenshot:** The 'Buying' tab is selected. The form contains fields for "Name of the Shoe:", "Buying Price (USD \$):" (with a spinner set to 0), "Gender:" (a dropdown menu showing "Item 1"), "Size:" (a spinner set to 0), and "Date Bought:" (a date picker showing DD / MM / YYYY).
- Middle Left Screenshot:** The 'Selling' tab is selected. The form contains fields for "Name of the Shoe:", "Selling Price (USD \$):" (with a spinner set to 0), "Gender:" (a dropdown menu showing "Man"), "Size:" (a spinner set to 0), and "Date Sold:" (a date picker showing DD / MM / YYYY).
- Middle Right Screenshot:** The 'Sales History' tab is selected. It displays a table with the following headers: "Shoe Name", "Size", "Gender", "Date", and "Profit/Loss (USD \$)". The table is currently empty.
- Bottom Screenshot:** The 'Inventory' tab is selected. It displays a table with the following headers: "Shoe Name", "Size", "Gender", and "Date". The table is currently empty.

## Success Criteria:

- My program will sort through all the inventory/transactions, and calculate the profit or loss.<sup>4</sup> *Providing the use with an organized database that is able to differentiate between the profitable and non-profitable transactions.*

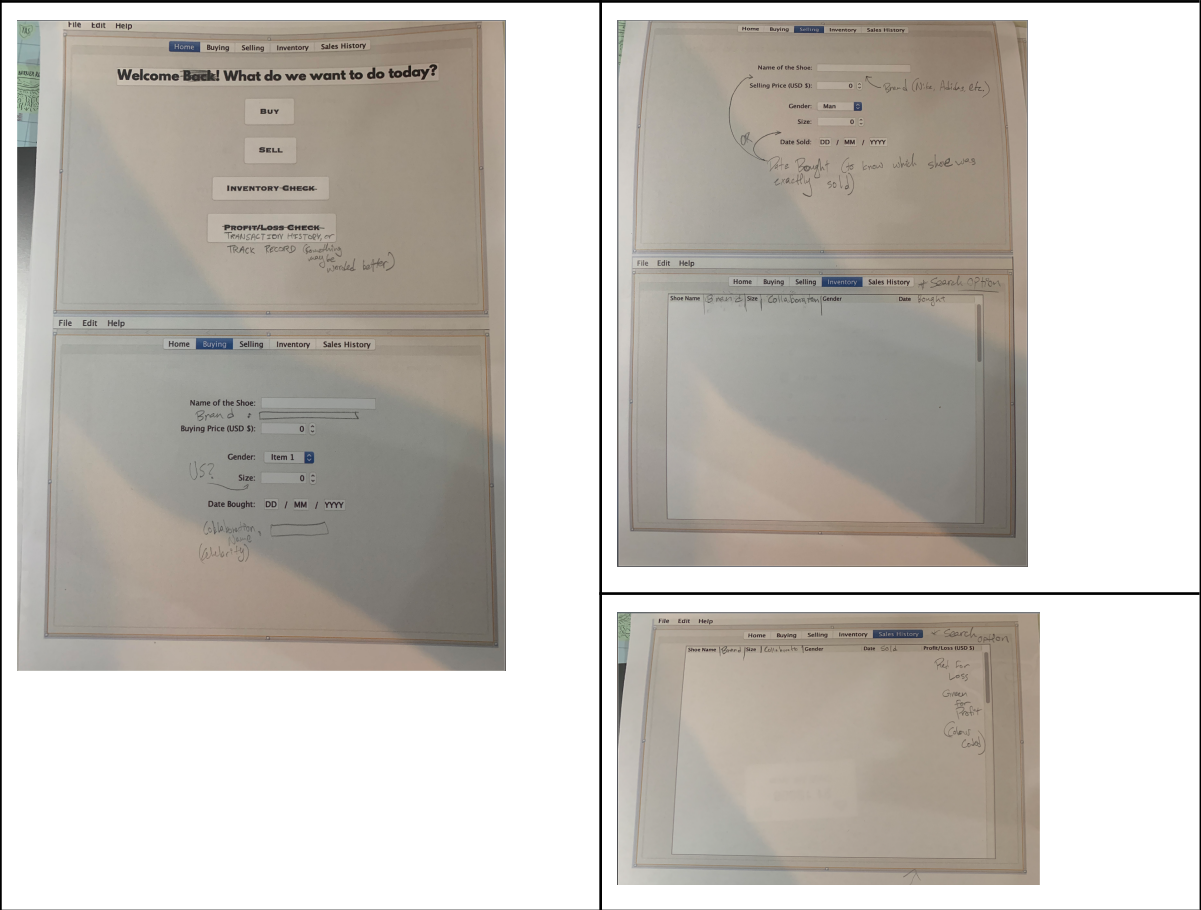
- My program will be able to search the various inventory/transactions made by my client in order for them to be able to view their desired data. *This will allow the user to navigate through their previous buying and selling of shoes, to find the most profitable or loss incurring transaction, benefitting their speculation.*<sup>5</sup>
- This database will not necessarily predict the most profitable shoes, because it aims to present the data, and how it can be easily accessed by the user.<sup>6</sup>

### **Post Design Prototype Feedback:**

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<sup>5</sup> Kazi ayman Masud, Interview by author, Bangkok, November 16, 2020, transcript answer # 9, Appendix A

<sup>6</sup> Kazi ayman Masud, Interview by author, Bangkok, November 16, 2020, transcript answer # 11, Appendix A



(Appendix D)

Total Word Count: 499