**The Big Boys Progress Report**

**Group Name:** The Big Boys

**Group Members:**

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Group Leader: Descartes Tuyishime - [descartes.tuyishime1@marist.edu](mailto:descartes.tuyishime1@marist.edu)

1. **Introduction of the group members**

* My name is Saeed Abdilahi, and sophomore and I am studying computer science. The way I selected my current teammates was by asking them if we could be in a group team.
* My name is Ricky Junior Isheja, I am an international student from Rwanda, and I am a sophomore majoring in computer science, my general passions are coding, basketball, and soccer. I chose my teammates on the basis that we all believe in hard work, and we are all willing to invest in the necessary efforts to finish this project together and succeed in the course.
* My name is Descartes Tuyishime, and I am an international student from Rwanda. I am a senior, majoring in Computer Science and Data Analytics. I am interested in the use of machine learning to improve agricultural and medical field. I selected my team based on flexibility, motivation, and responsibility. I admire people who are flexible and motivated to do what needs to be done. I trust my team members to be responsible enough to take this course and project seriously.

**B. Group Project Selected: Project 4 (Warehouse Management System)**

The Big boys warehouse management system is a system that will help people to know, manage and maintain materials kept in the warehouse. The System will be managing details like the number of products, their store time, the price and the weight of the products, The system will also help the user to search a specific product. The system will make easier the accounting processes of the user's business which might in the overall increase the profit. The objective of the big boys is to make a warehouse management system by the end of this course that can help an admin user to enter the food types, books, carts and any products, the store time in the warehouse, the pick out time, see the prices and search a product. And we shall also create a user's page for the user to buy and check out products.

**C. Review the related work**

* Amazon Warehouse

Amazon Warehouse works by label and packaging item and order that came through electronic orders that people who connect with Amazon made. The processes that the packages are labeled and boxed are physically by using human hands.

* Target Warehouse

Target Warehouses uses similar processes of packaging and distribution and then delivering to the right destination, the same as Amazon. However, the only difference is the brand of the item or product and its price sector.

* Apple Warehouse

Apple Warehouse is the same as the other two warehouses above, but the difference is that apple mainly focuses on electronics whereas the two provide multiple products. All in all, Apple, Amazon, and Target use the same warehouse management system. All of these are held by humans.

**Pros:**

* Reduced Operating & Processing Expenses
* Reduced Mispacks
* Improved Customer Relations

**Cons:**

* Requires Expert Knowledge
* Requires Tight Security
* High Initial Investment

**D. Merits Of our Project**

1. Our WMS will lead to a drastic change in operating expenses (1) since it reduces the manpower and other resources that are needed to manage and control the products that are in the warehouse.
2. The Labor will be better allocated with our system since most of the work is done by the system so the labor will have time to do their work in a more effective way while also being efficient.
3. WMS will increase the overall customer satisfaction, since the Service provided will be faster and easier for both the seller and the buyer, which will also increase the customers loyalty to the business thus increased profitability on the businesses side.
4. WMS will facilitate and help to manage the inventory that comes in and gets out (2), which overall will facilitate the accounting process at the end of the fiscal year.

**Work Cited**

[Direc Business | Advantages of a Warehouse Management System | Direc Business](https://direcbusiness.com/advantages-warehouse-management-system/#:~:text=What%20are%20the%20advantages%20of%20a%20warehouse%20management,should%20be%20at%20the%20top%20of%20the%20fore.)

[Warehouse Management System (WMS) in India - Pros and Cons -Shiprocket](https://www.shiprocket.in/blog/warehouse-management-system-wms-in-india-pros-and-cons/#:~:text=The%20biggest%20disadvantage%20of%20a%20Warehouse%20Management%20System,can%20easily%20exceed%20the%20price%20of%20the%20devices.)