

Project Proposal

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EXECUTIVE SUMMARY

Objective

The objective of the project is to create a more efficient inventory system for RESA Power. This program, In contrast to the current excel sheet that is being used, is going to make the inventory system faster, and more accessible. If applicable, the program could also feature administrator capabilities. These capabilities include:

- Adding and removing items from stock as needed, such as in a correction.
- Viewing the cost of items (both our cost and resale cost).
- Requesting more items be ordered.

The administrator capabilities would also require a login system. There would be two types of employees; Manager and Regular. The managers would have the administrative capabilities listed above, while the Regular employees would just be able to view if an item is in stock and where it is located. Depending on how the project is progressing, we can determine if this can be done in due time.

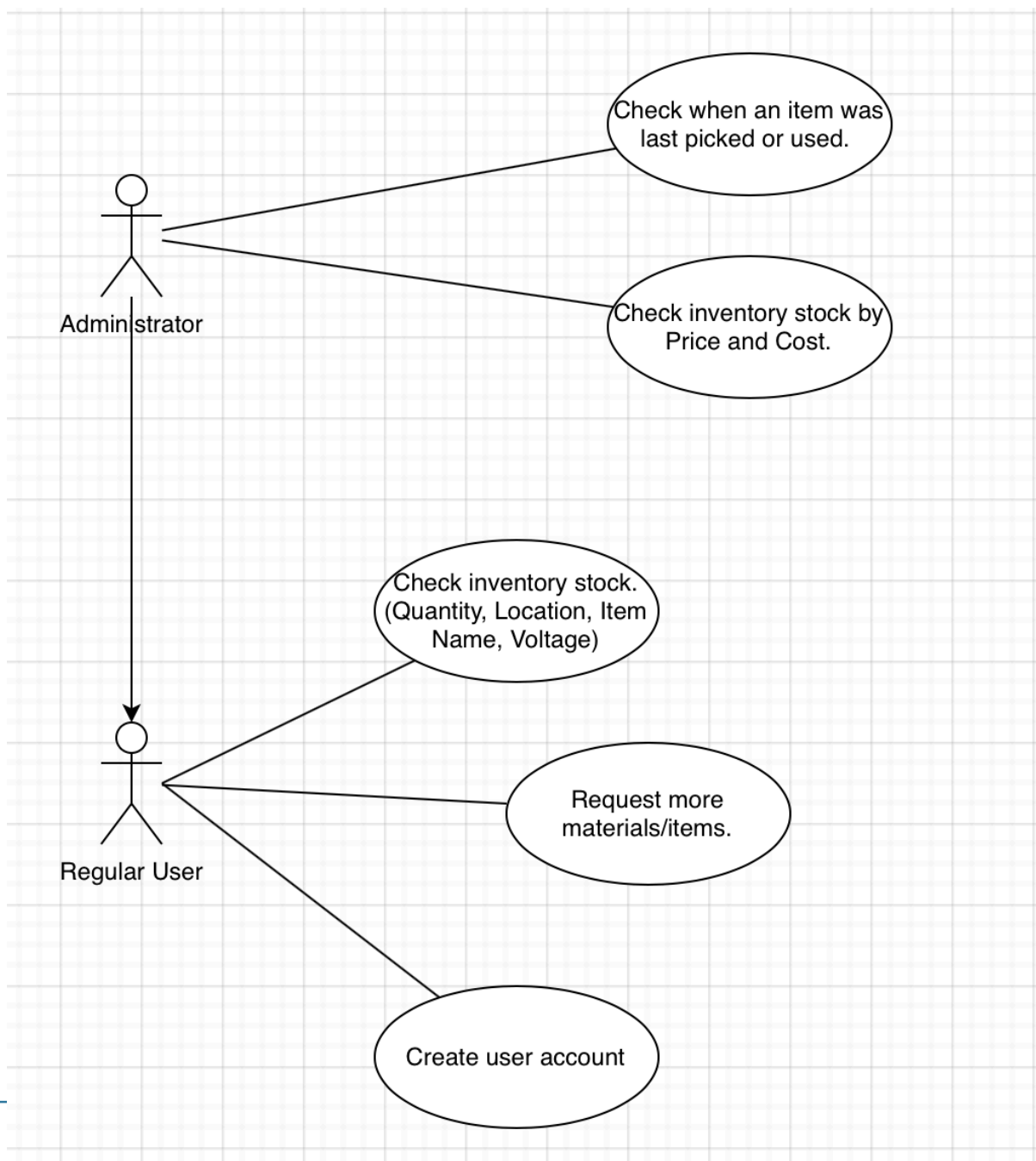
Problem

When an engineering, or test employee, needs a part or material, they call the warehouse and ask for that part. If they do not know the part from memory, then they can check the excel sheet that the office sends every month. However, the excel sheet is only sent once a month. Instead of sending a copy of an excel sheet monthly, every employee can actively view the current inventory. While using an excel sheet, it forces employees to walk to our office location, instead of being able to search for these items themselves. The office employees must then focus directly on the inventory request, or else time will be used even more inefficiently due to the employee waiting for the inventory request.

Solution

The solution that will be applied is the development of an inventory management system. This system will be responsible for recording the: Cost of items, sell price of items, Catalog number (if applicable), quantity of items, and voltage (if applicable). This will also help solve the problem of productivity, because there will be less inventory requests, considering they can view the inventory themselves.

Below is an Entity Relationship Diagram (ERD), showing the capabilities of an administrator compared to that of a Regular User. The arrow from the Administrator to the Regular User shows that the Administrator also has those capabilities.



Tables portraying the increased productivity.

Process of locating an item, without RESA Power Inventory Management.			
Test department requests item	Warehouse employee comes to office to request excel sheet.	Office employee must stop his/her work, and cater to the warehouse employee. If the office employee is on the phone, this problem is exacerbated.	(If item is in stock), Warehouse employee then goes back to the warehouse to retrieve the item. Then, he must deliver it to the test department, which is next to the main office.
Salesman would like to check stock on a part for a customer.	Warehouse employee comes to office to request excel sheet.	Office employee must stop his/her work, and cater to the warehouse employee. If the office employee is on the phone, this problem is exacerbated.	(If item is in stock), Warehouse employee then goes back to the warehouse to retrieve the item. Then, he must deliver it to the test department, which is next to the main office.

Process of locating an item, with RESA Power Inventory Management			
Test department requests an item	Warehouse employee checks stock using the program being proposed.	Warehouse employee pulls the item, if in stock, and brings it to the test department.	
Salesman would like to check stock on a part for a customer.	Warehouse employee checks stock using the program being proposed.	Warehouse employee pulls the item, if in stock, and brings it to the test department.	

Conclusion

In conclusion, you can see how the RESA Power Inventory Management system would save time, and effort for the company. Using the charts above, you can directly see how productivity will be increased. By using the Entity Relationship Diagram, you can see the capabilities of both administrators and regular users, and there is no capabilities now. There is no reason why a warehouse employee, or office employee for that matter, should know the cost of an item and the resale cost. The RESA Power Inventory Management System would solve these problems.
