

## **Vision Statement**

### **Group members:**

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### **general description:**

In the Scout movement (the Scouts), each scout group has a warehouse that contains all the equipment needed for daily activities (twice a week), annual activities, trips, and the main activity - summer camp. The inventory is managed by a team that contains between 10-100 staff members whose main job is Inventory management and providing logistical solutions to the other members of the scout group (trainees, instructors, Rashgad (guides manager) head of the scout group, and more).

Today, inventory management in the warehouse varies from one scout group to another depending on the amount of manpower in the warehouse staff and the existing computing solutions in the scout group. For example, in the Golan scout group (location - Bat Hefer), the inventory is managed by uncomputerized registration on pre-printed paper tables.

Another example, in the Tzur scout group (location - Kochav Yair), the inventory is managed by computerized registration on EXCEL tables using laptops provided for the welfare of the warehouse staff members.

**Problems with the existing method:** The existing methods are mainly suitable for a small scout group, with small warehouse staff. For example, there is no synchronization in removing the equipment from the warehouse - if one guide took 30 scissors for an activity, another guide does not know about it in real-time. Another problem is the inaccuracy of inventory counting (a page may be lost, someone forgot to update, and more). Even when new equipment arrives, accuracy and synchronization are lacking. All this without mentioning the ecological damage of using countless paper.

**The purpose of the project:** Solving the problem of managing the warehouse inventory while emphasizing the division of responsibilities between the warehouse staff and the instruction teams.

### **System description:**

Our inventory management system will allow the organization of a complete and broad picture of the inventory when counting inventory, will enable ordering and signing equipment with the help of a user-friendly website/app that allows full transparency in real-time for all users.

Also, the system alerts and signals to the staff members when inventory is about to run out and produces outputs that will help the organization become more efficient,

such as what equipment runs out the fastest, which is ordered the most, or is destroyed the fastest, etc.

Essential features of the system: Accuracy and synchronization.

Desirable features in the system: Background - Within the warehouse staff, there is a division into roles and a hierarchy of responsibilities. For example, some of the staff members are responsible to make an inventory count and making sure that all the equipment signed is returned at the end of each day. Also, some are responsible for performing an annual inventory count, some are responsible for ordering new and missing equipment (dealing with the scout groups money), and so on.

The above division makes it possible to maintain order and organization and moreover (and perhaps even more importantly) and provides meaning and a way to advance in the hierarchy to the manpower of the warehouse staff.

A desirable feature of our system is the ability to classify certain actions in the system so that not every team member can perform it unless he is in a role that provides him access to the specific action

Possible problems:

The system requires manual updates. When equipment arrives, the database will not be updated automatically but Will be filled manually by staff members. This allows for human errors such as inaccuracy in counting or forgetting to fill something thus causing inaccuracies in the system.

Also, there is an inventory type that we cannot count. For example, a roll of rope, a bottle of gouache, a bag of glitter, etc. This equipment leaves the warehouse, not in the total quantity (ie, a guide does not seal a 4-liter bottle of gouache or a 20-meter roll of rope) but in a partial quantity for example - a cup of gouache, "a little" glitter, and a meter of rope. Unlike, there are 20 pairs of scissors in stock, and out of them the guide signed 12. Therefore, the user must be allowed to sign "part" of the equipment and because this part is inaccurate, there may be inaccuracies in the system and the outputs it produces.