Software Requirements Specification

for
Stomanage

Version 1.0

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1. Introduction

1.1 Purpose

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

<u>System description:</u>

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.

1.2 Intended Audience

The youth movements – boy scouts or any other organization that operates with the same hierarchy. In particular the system will be used by the storage room staff in order to manage the inventory, and by the guiding teams in order to view the available equipment and request it for different activities.

1.3 Intended Use

Besides the system developers ,the UI teams will have access in order to make the customer experience comfortable and flexible ,in addition ,the DB team ,the system integration team and the technical support team will have access in order to solve any problem that might occur in real time.

1.4 Scope

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
 A reliable and synchronized – the system will show the status of all the equipment that was fed to it and will sync in real time, so that if a number of guides order a specific item and it runs out while the order is being taken the guide will get a real time notification.
The system will produce an updated image to the request of the manager based on selected criteria.

1.5 Definitions and Acronyms

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.

2. Overall Description

2.1 User Needs
The system will have two different types of users with different authorizations . The main user – the staff team .This user type will have physical access to the inventory that is inside the storage and therefore will be able to edit ,add or subtract from the database's inventory levels at any time ,in addition this user type will be able to enable the option to make orders that will be made by the guiding teams .Another important ability that this user type will have is to manage the users of the guiding teams ,as in add or subtract users from the system .The main user will be able to view every order that was ever made ,even expired orders ,and edit them.
Another ability is to export data and information about the inventory status.
The sub user is the guiding team's user .This is authorized to order equipment from the storage for every non – expired activity that was opened by one of the managers .Additionally ,this user will be capable to access all of the orders he made ,view and edit his order history (even expired).

2.2 Assumptions and Dependencies
The system uses the free to use "firebase" database service by google .In case this service cease operations or stop being free ,all of the data and information of the application and system will be unavailable.
Another assumption is that all the users have a working internet connection , otherwise the system's functions will be usable due to the lack of synchronization to the database.

3. System Features and Requirements

Notes	Priority	Subtype	Non\functional	Permission	Requirements	
Page load time check	2	Performance	Nonfunctional	Software	Each page loads in less than one second	1
	4	data	functional	user	Any order can be saved / deleted even if it has not been completed and if it has not been closed by the manager	2
	4	data	functional	user	Any order can be edited / modified if it is not closed by the manager	3
	2	data	functional	user	Orders from previous unsubscribed activities can be accessed	4
Check viewing and editing permissions	5	Security	Nonfunctional	user	Each user has a username and password	5
	3	Performance	Nonfunctional	Software	Any user can access my orders from any Android device	6
	5	Performance	functional	user	Any member of the Scout movement can connect / disconnect from the app	7
	5	Performance	functional	user	Any user can remove / add equipment from stock to order	8
	1	Performance	Nonfunctional	Software	Each activity has a pre-set date range for ordering equipment	9
	1	Performance	Nonfunctional	Software	Each order has a system entry date	10
	1	Performance	Nonfunctional	Software	Each order has a last update date	11

	2	data	functional	user	Each user has their own characteristics such as scouts group name and mail	12
	4	Performance	Nonfunctional	Software	The app will use a list data structure	13
QA test	5	Safety	Nonfunctional	Software	The app will run smoothly	14
Keep alive test	5	Safety	Nonfunctional	Software	The app will run 7/24	15
	2	Performance	Nonfunctional	User	Each order can be shared with other users	16
	3	data	functional	User	Each order can be named	17
	5	requirement	Nonfunctional	Software	The app will run without a budget	18
	5	requirement	Nonfunctional	Software	The app will require the use of the Android platform	19
	5	Performance	functional	User	Anyone in the warehouse staff can add / delete equipment from stock	20
	1	Performance	functional	Software	The app will generate reports on existing / missing inventory quantities	21
	3	Safety	Nonfunctional	Software	The application will automatically synchronize with the data structure	22
AutoSave	5	Safety	Nonfunctional	Software	The system will automatically save the status of the user	23