

Product Requirements

Fundraising Management App for Scouts

Team: **406 Not Acceptable**

Brief problem statement

The motivation for this application is to facilitate fundraising and event management for scout troops. Most scout troops do not have a good system for tracking and managing their inventory, they rely solely on paper records. Paper records make it difficult for troop leaders to properly manage their troop's inventory and special fundraising events; consequently, they need to manually determine the progress of each individual scout, which is an error prone process.

The primary goal of this application is to manage each of the troops and their inventory, so the scouts can focus on selling and the scout leaders can avoid tedious paperwork. This application will provide specialized tools for the organization of special fundraising events. It will also save historical data for scout leaders, so they can see how their troops are performing.

System requirements

This application is intended to run on the latest web browsers, such as: Google Chrome, Safari, and Firefox. The application will be based on industry standard frontend and backend frameworks.

Users profile

The application is intended for use by scout troop leaders and parents of the scouts. In order to effectively use the application, the users must have basic computer skills such as being able to access a website, and input data. They should also be familiar with using other smart devices, such as a smartphone or tablet.

Parents should be fully responsible and understand the purpose of the fundraising program. The troop leaders should have a good understanding of the application and how to manage their groups. They should also have some experience in reading data statistics since the app will output related graphs.

List of Features

F1: Ability to view transaction histories of each of the scouts in the troop.

F2: Ability to add, remove, and update scout information.

F3: The application will allow an admin to manage the database through a dashboard.

F4: The application will keep track of item and price, update and synchronize data when changes are made.

F5: The application can keep track the sales report seasonally, analyze data and calculate the profit within any period.

Functional requirements (user stories)

No.	User Story Name	Description	Priority
R1	Registration	The superuser, or administrator, will have the ability to add Troop leader accounts through an email invite process. Troop leaders will have the ability to add accounts for parents of the scouts through an email invite process. The email invite will allow Troop leaders and parents of scouts to register with a password.	1
R2	Login	All users will be able to login only using an email and a password. On the login screen, users will have the option to reset their password through an email message if they forgot it.	1
R3	Sales tracking	The Troop leader should be able to view overall sales for individual scouts. They should also be able to set goals for the group and view progress towards the goals. A scout should be able to view their overall sales and the group sales, as well as group goals and the progress for those goals.	1
R4	Inventory Management	The troop leader can view the troop's inventory and change product details.	1
R5	Individual sales tracking	The troop leader can view an individual scout's sales records and filter results using a date range.	2
R6	Event tracking	The troop leader can create events that can be viewed by troops.	2
R7	Password reset	All users will have the ability to reset their password through an email that contains a link to a password reset page for that user.	2

R8	Account Verification	All users will verify their accounts through a link sent via email.	2
R9	Notifications	Notifications can be sent to a single user, a group or globally. These notifications will appear in a bell icon at the top right of the page, next to the sign in/sign out button.	3

Non-Functional Requirements

- This application will be responsive for both mobile and desktop websites.
- NoSQL based technologies cannot be used.
- The database calls will be secured using an API gateway running on an Express NodeJS server.
- Troop leader and scout's personal information will be hidden and can only be seen by the account owner when logged in
- The application will be accessible 24/6 and will be down for maintenance overnight (12am - 6am).
- There will be gradients, colors, and containers in the application to provide contrast to the different UI elements for ease of use.

Sponsor Requirements

I have read and approve the material in this document. If there is no external sponsor, the TA or instructor will sign it for accuracy/scope.

Print Name	Signature	Date
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