TrackMate

Inventory Management System

By
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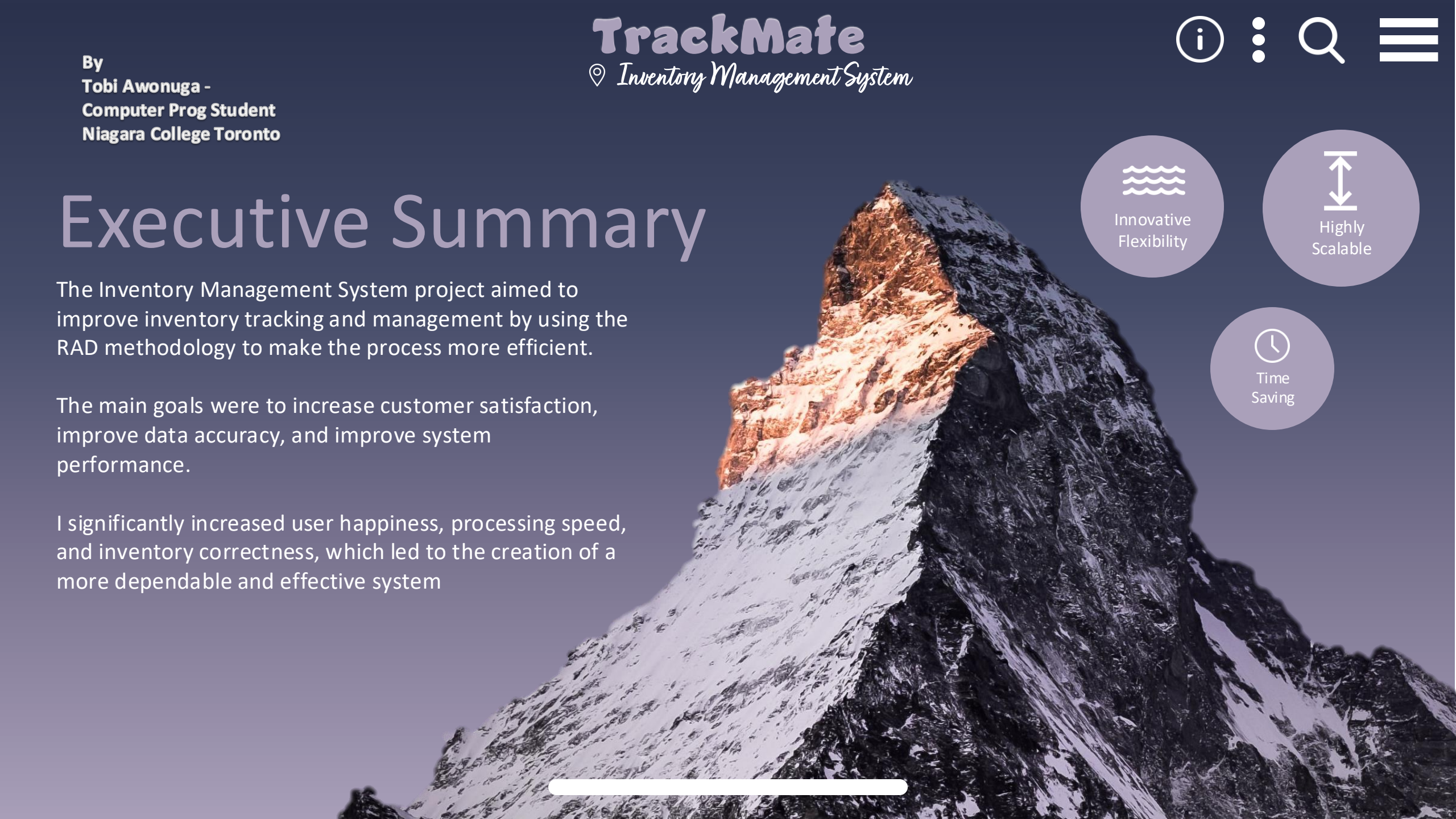
Executive Summary

The Inventory Management System project aimed to improve inventory tracking and management by using the RAD methodology to make the process more efficient.

The main goals were to increase customer satisfaction, improve data accuracy, and improve system performance.

I significantly increased user happiness, processing speed, and inventory correctness, which led to the creation of a more dependable and effective system



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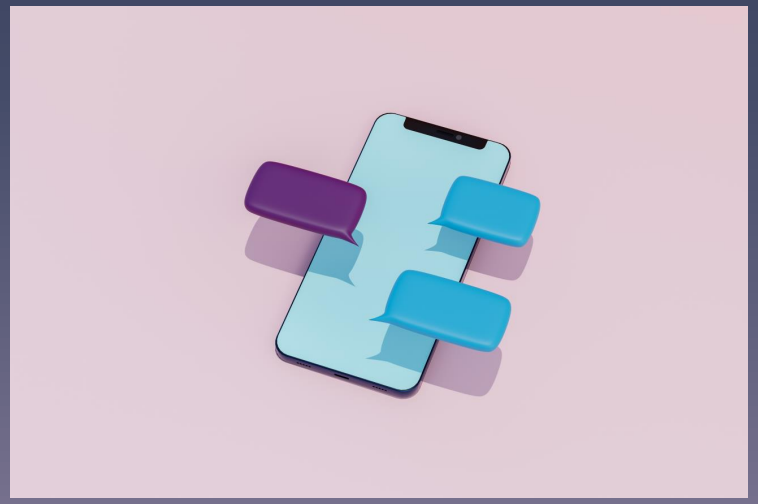
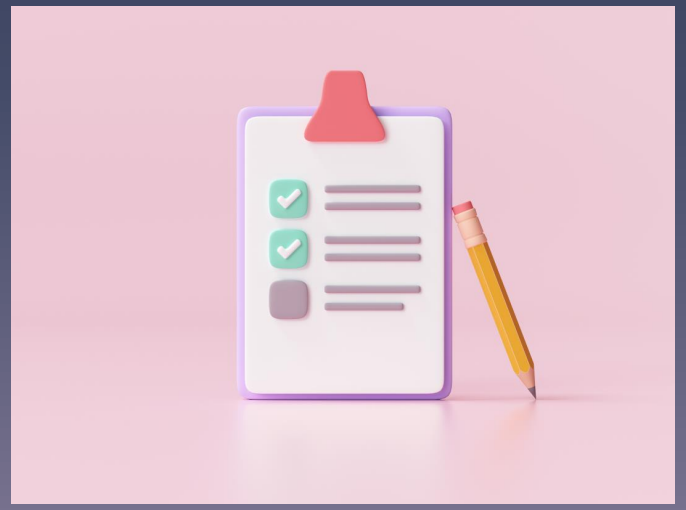


App Goal



Methodology

Data and Experiments

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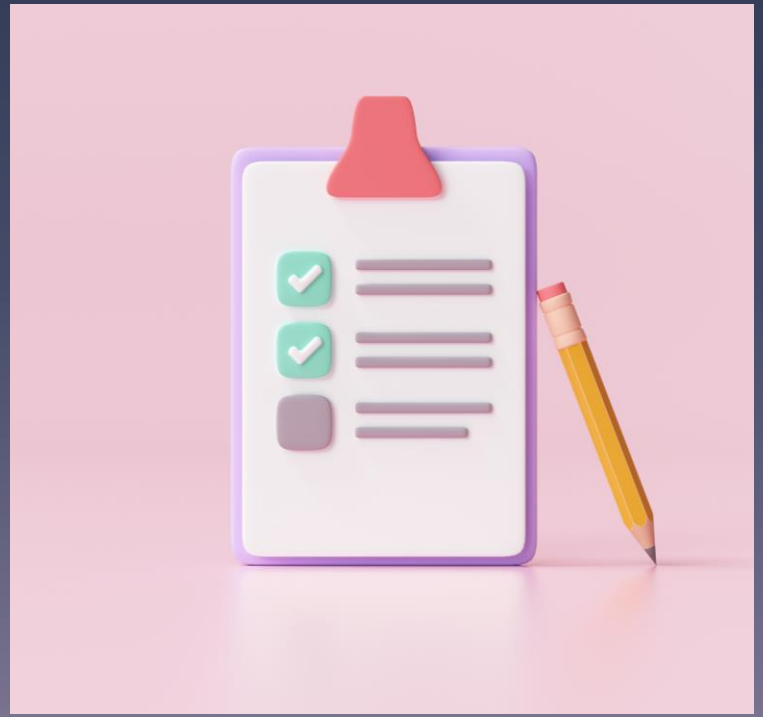
Inventory Management System

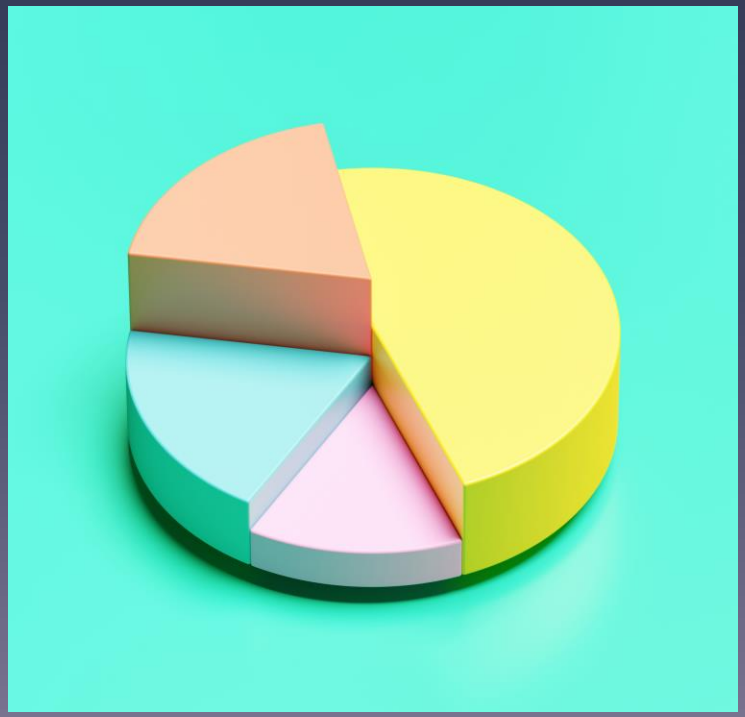
App Goal

My study emphasized the necessity for a system that is more flexible and easier to use, capable of adjusting to the changing demands of contemporary inventory management.



Methodology

The RAD methodology consists of four stages: Requirement Planning, User Design, Construction, and Cutover.



Data and Experiments

Load tests were performed to assess the system's capacity for high transaction volumes, and stress tests were carried out to pinpoint possible bottlenecks.

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Inventory Management System

App Goal

Current inventory systems frequently face challenges with maintaining real-time data accuracy and seamlessly integrating with other business operations but TrackMate resolves that issue

Past systems were usually unchanging and needed updates done by hand, which resulted in inefficiencies and mistakes.

My study emphasized the necessity for a system that is more flexible and easier to use, capable of adjusting to the changing demands of contemporary inventory management.

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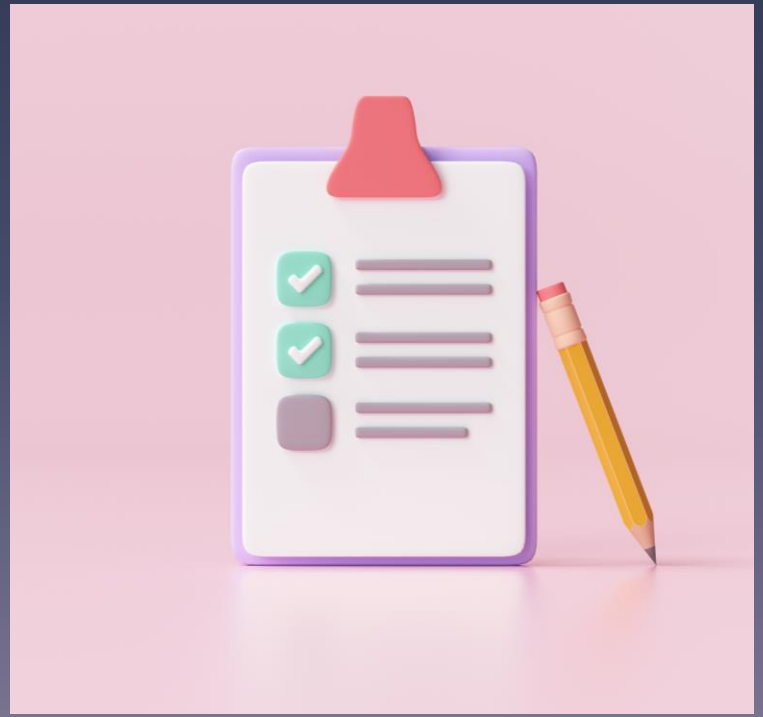

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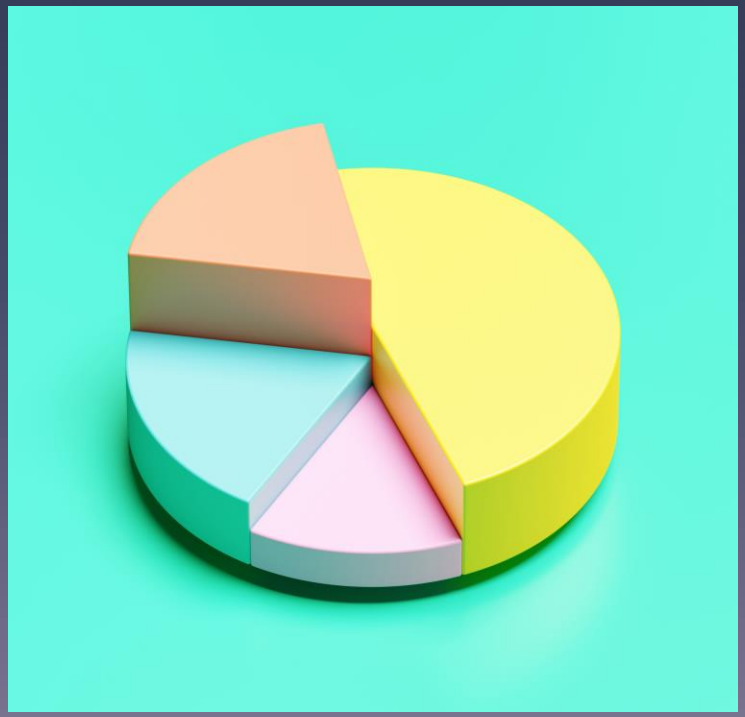

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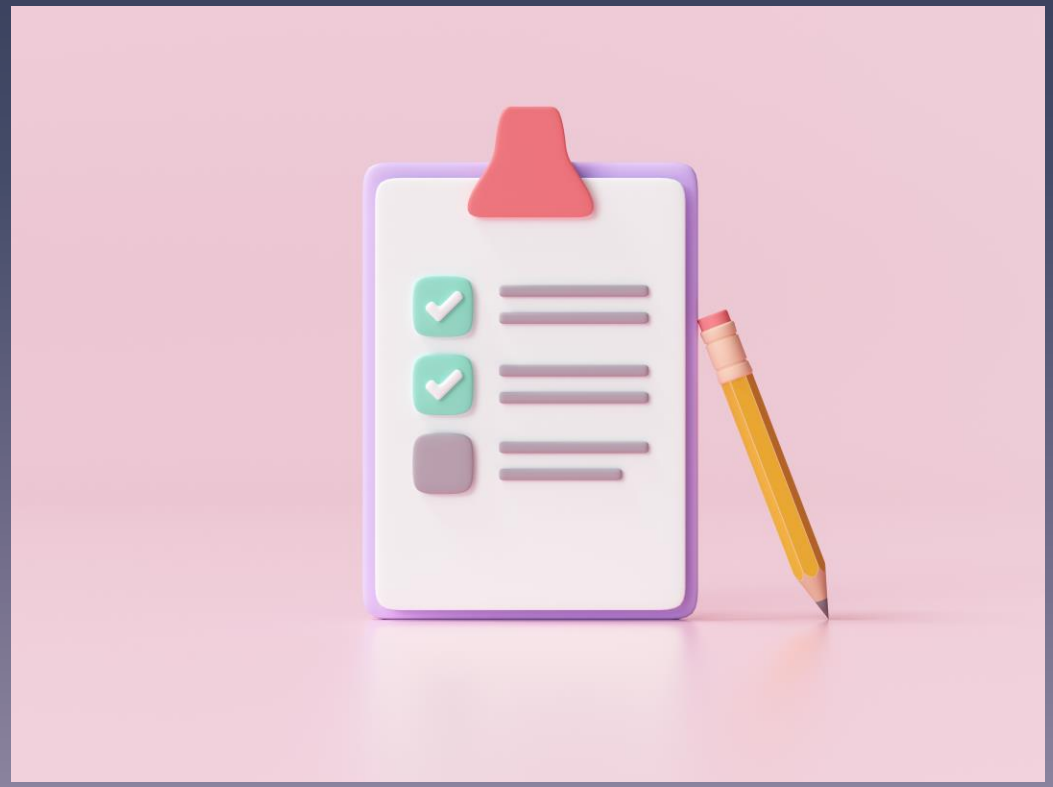
Inventory Management Sytem

Methodology



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During the User Design phase, prototypes were developed and user feedback was collected to improve the design. The Construction stage centred on constructing the system, integrating input from the User Design phase.

Ultimately, during the Cutover stage, the system was implemented and users were trained accordingly.

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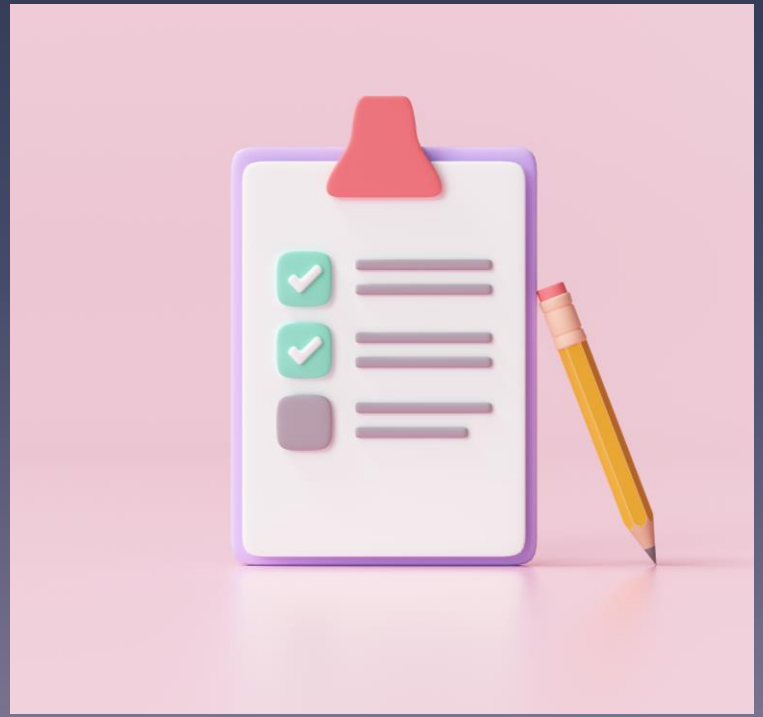

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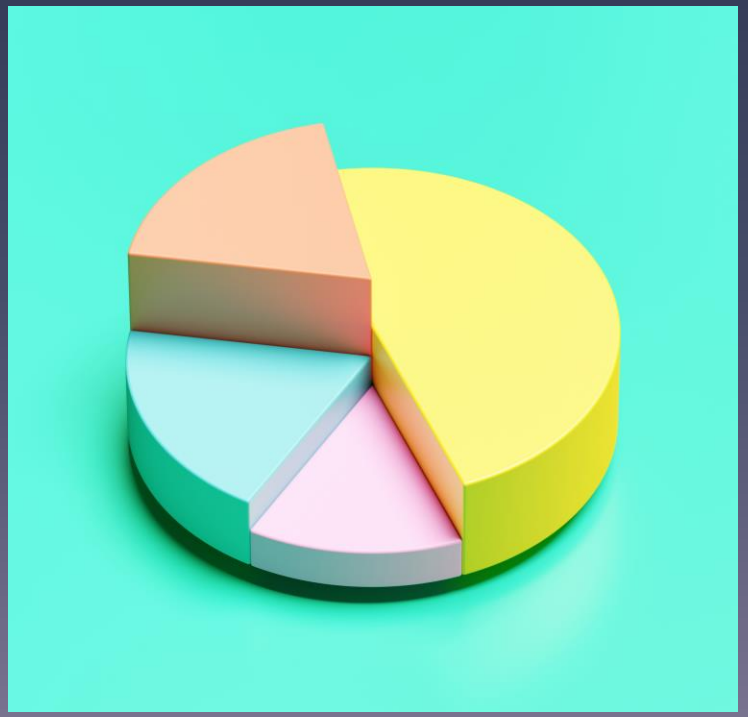

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Inventory Management System

Data and Experiments

Dataverse is where the backend is stored, cleaned and normalized in order to guarantee consistency and accuracy.

Testing in the experiments involved measuring system response times for performance evaluation and collecting user feedback on usability through acceptance testing.

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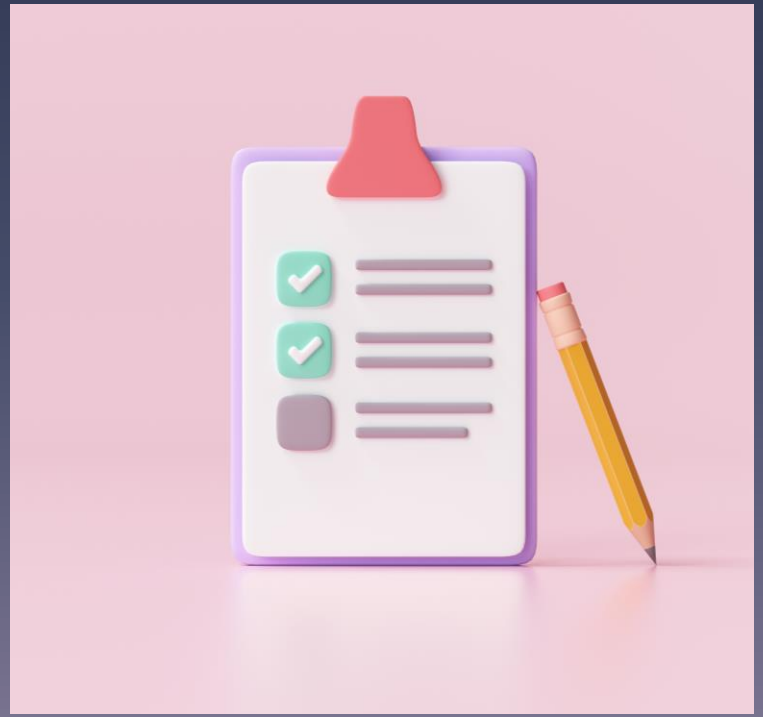

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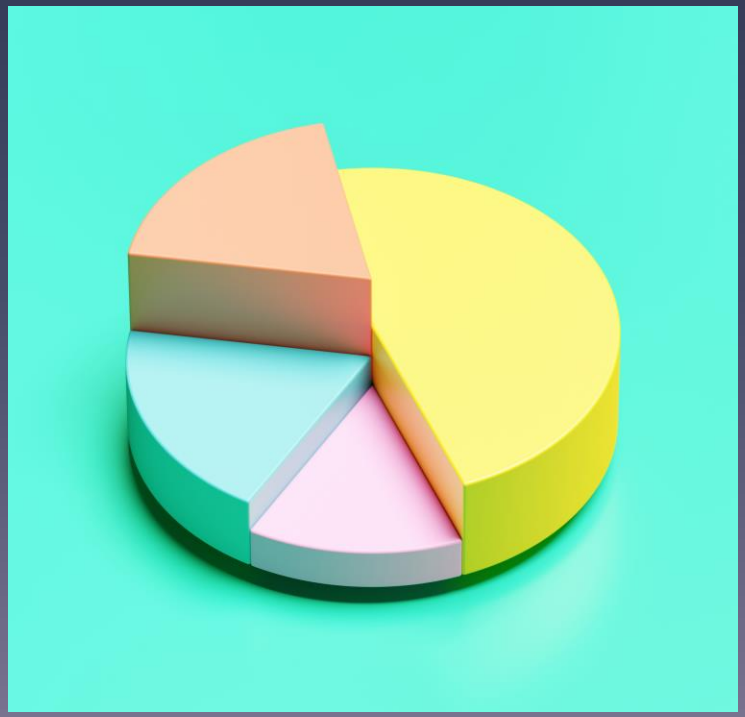

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Results & Observation

1

Tracking inventory in real-time resulted in a decrease in out-of-stock situations and excess inventory, improving customer satisfaction and cutting costs.

2

The updated system led to a notable enhancement in inventory turnover rates, reflecting better stock management and decreased holding costs.

3

Insights from data analytics helped managers make better decisions on purchasing and stocking by analyzing inventory trends.

Cool Features

Added an email ordering system that connects to the supplier and informs him/her of the company's low inventory and stock status.

Added a push notification system that lets management know inventory is low.

Added Inventory Analytics, Displaying Column Charts, Pie Charts, etc

I made the UI easy to the eye and attractive

Trackmate

Login To TrackMate

Enter your usename

Enter your password

Login

New User?

Welcome To Easy Tracking

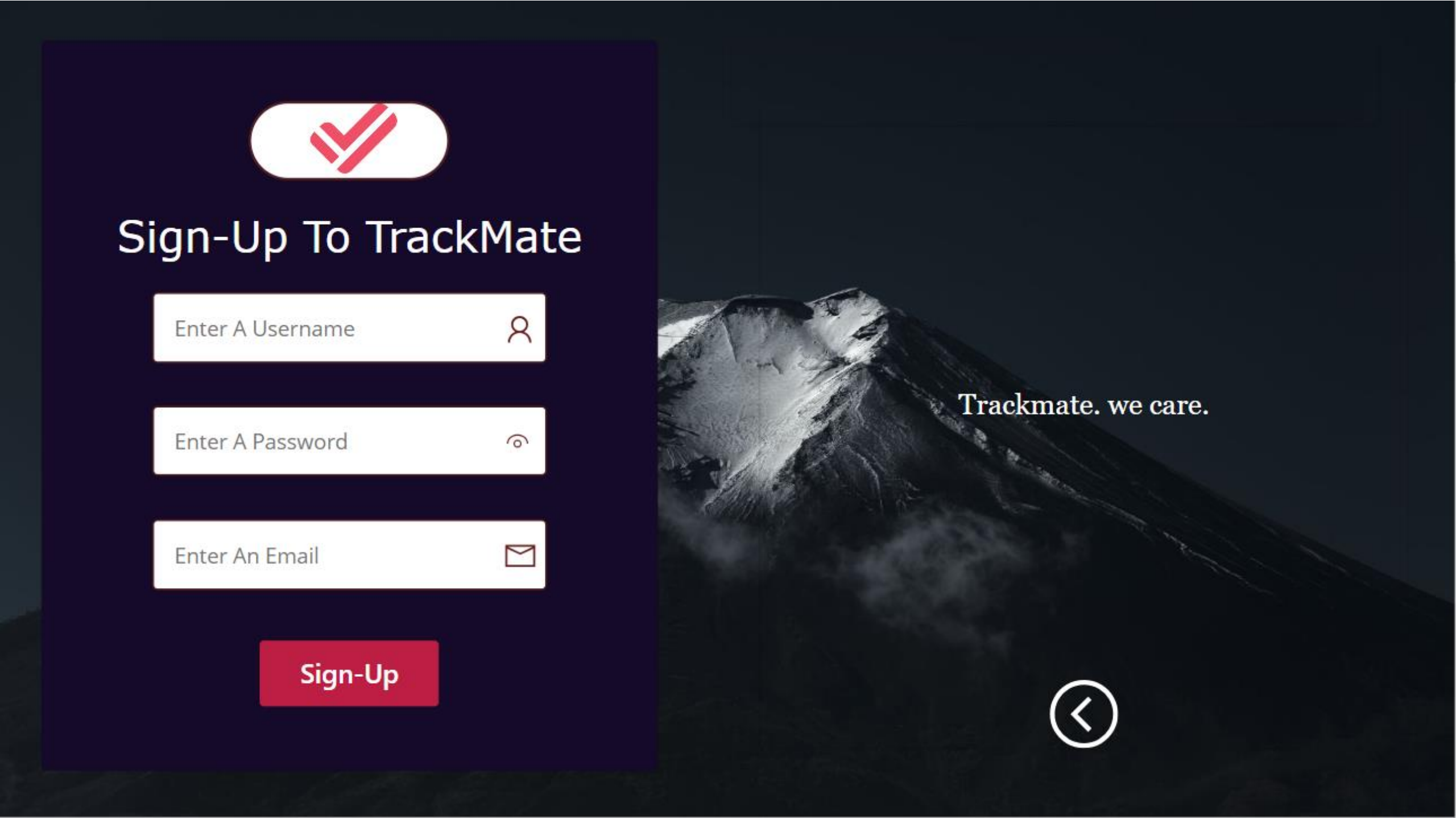
Sign-Up To TrackMate

Enter A Username

Enter A Password

Enter An Email

Sign-Up



Inventory Dashboard

Welcome Tobi

TRACKMATE

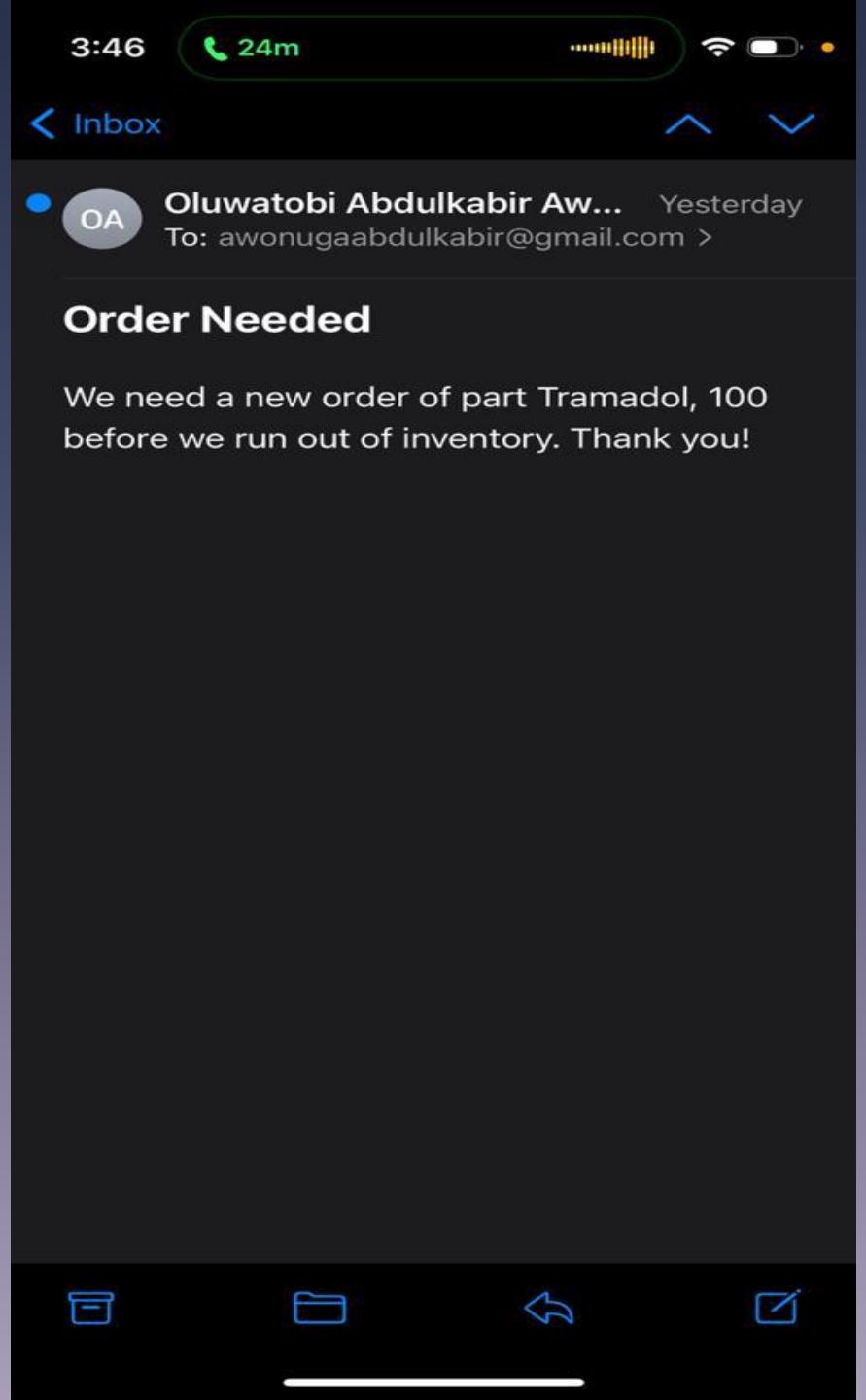
ORDER INVENTORY

100
Painkiller

10
Stethoscope

500
Bandages

SPONSORED BY E-MEDICAL'S CANCER RESEARCH FUNDRAISER


3:46
24m
Inbox
OA
Oluwatobi Abdulkabir Aw...
Yesterday
To: awonugaabdulkabir@gmail.com >
Order Needed
We need a new order of part Tramadol, 100 before we run out of inventory. Thank you!

Item Details

Search here for an Item

Inventory

Expiry Date: 12/31/2022 19 : 00

Image of Item

Name: Painkiller

Item ID: 001

Status: Active

Quantity: 100

Category: Medicine

Modified On: 7/27/2024 11:41 PM

12/31/2022
Painkiller

5/14/2024
Stethoscope

12/30/2022
Bandages

6/19/2023
Antibiotics

11/9/2022
Gloves

7/27/2024
Tramadol

SUPPLIERS

NCT

John

UNICEF

Jane

WHO

Alice

CHH

Bob

View Full List

Transaction List

Our Trusted Suppliers:

Search

Our Suppliers

S001
NCT
John NCT

S002
UNICEF
Jane Smith

S003
WHO
Alice Johnson

S004
CHH
Bob Brown

S005
TRKMTE
Tobi

SUPPLIER INFO

Supplier ID
S001

Name
NCT

Contact Person
John NCT

Phone Number
123-456-7890

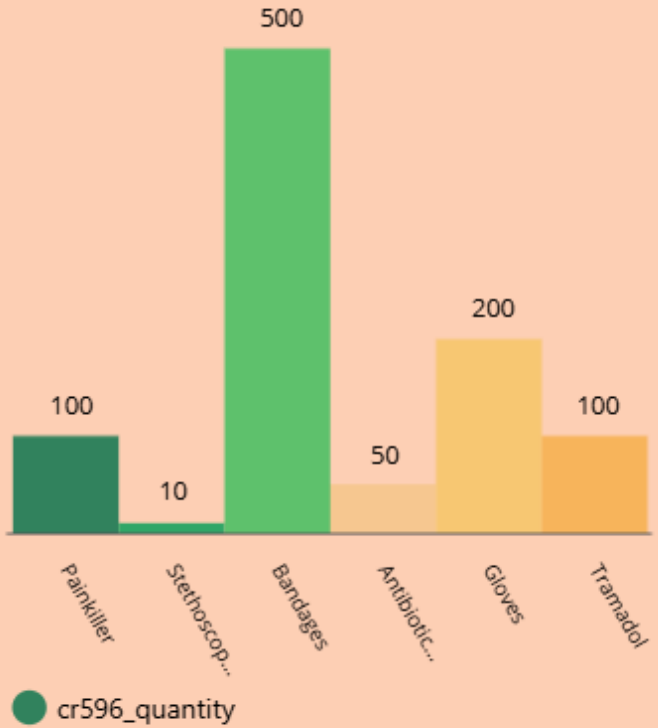
Email
supplier1@example.com

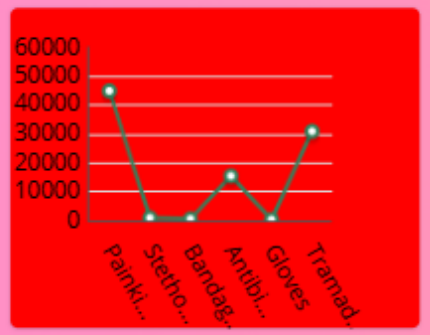
Address
123 Main St

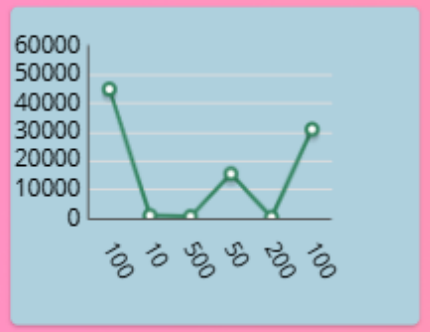
IMAGE OF SUPPLIER

INVENTORY ANALYTICS

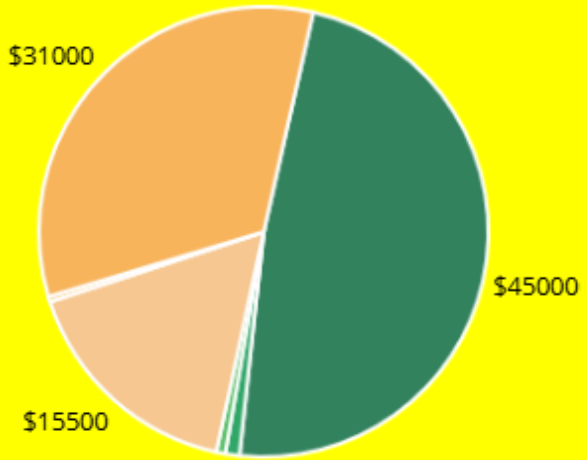
Live Inventory

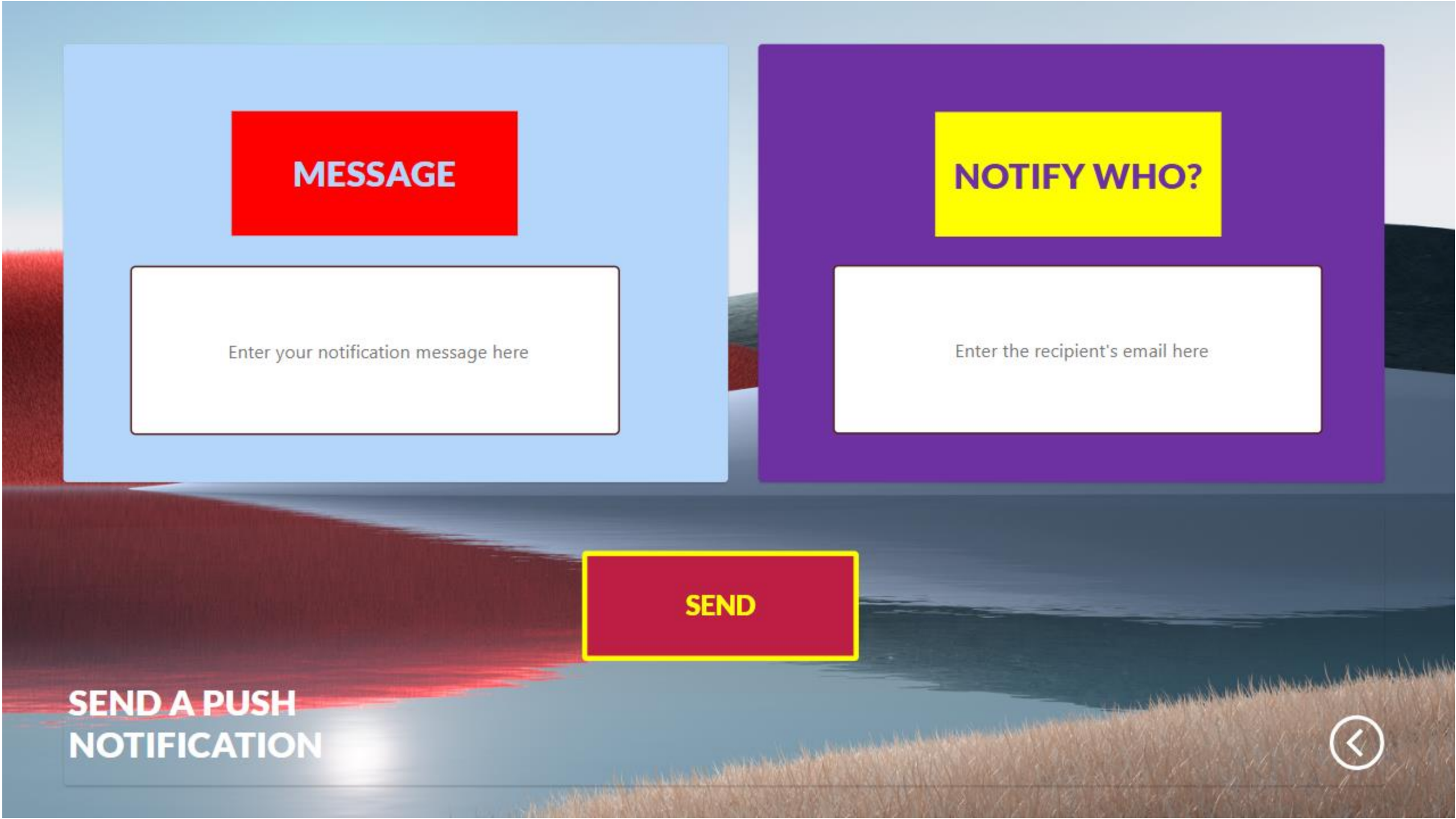


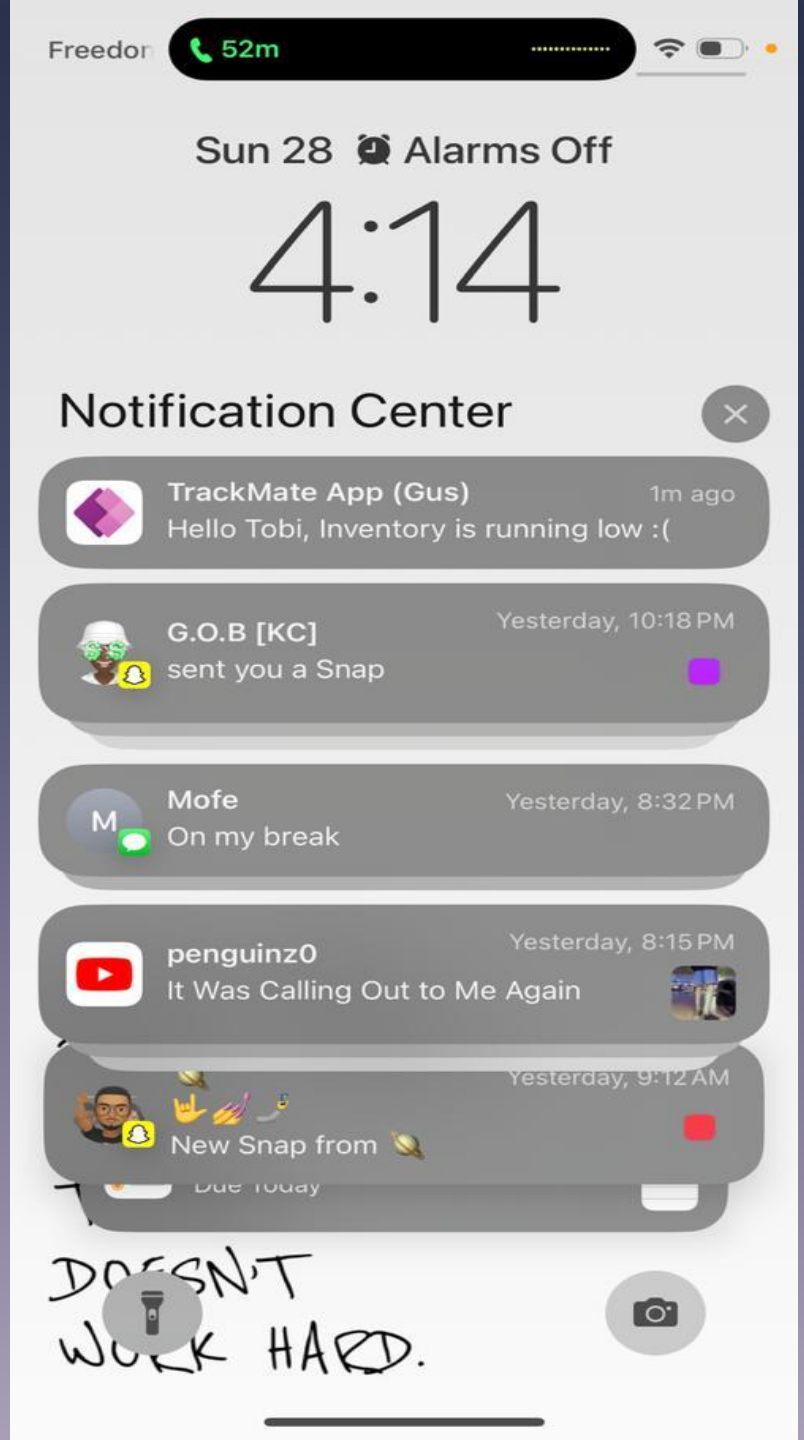


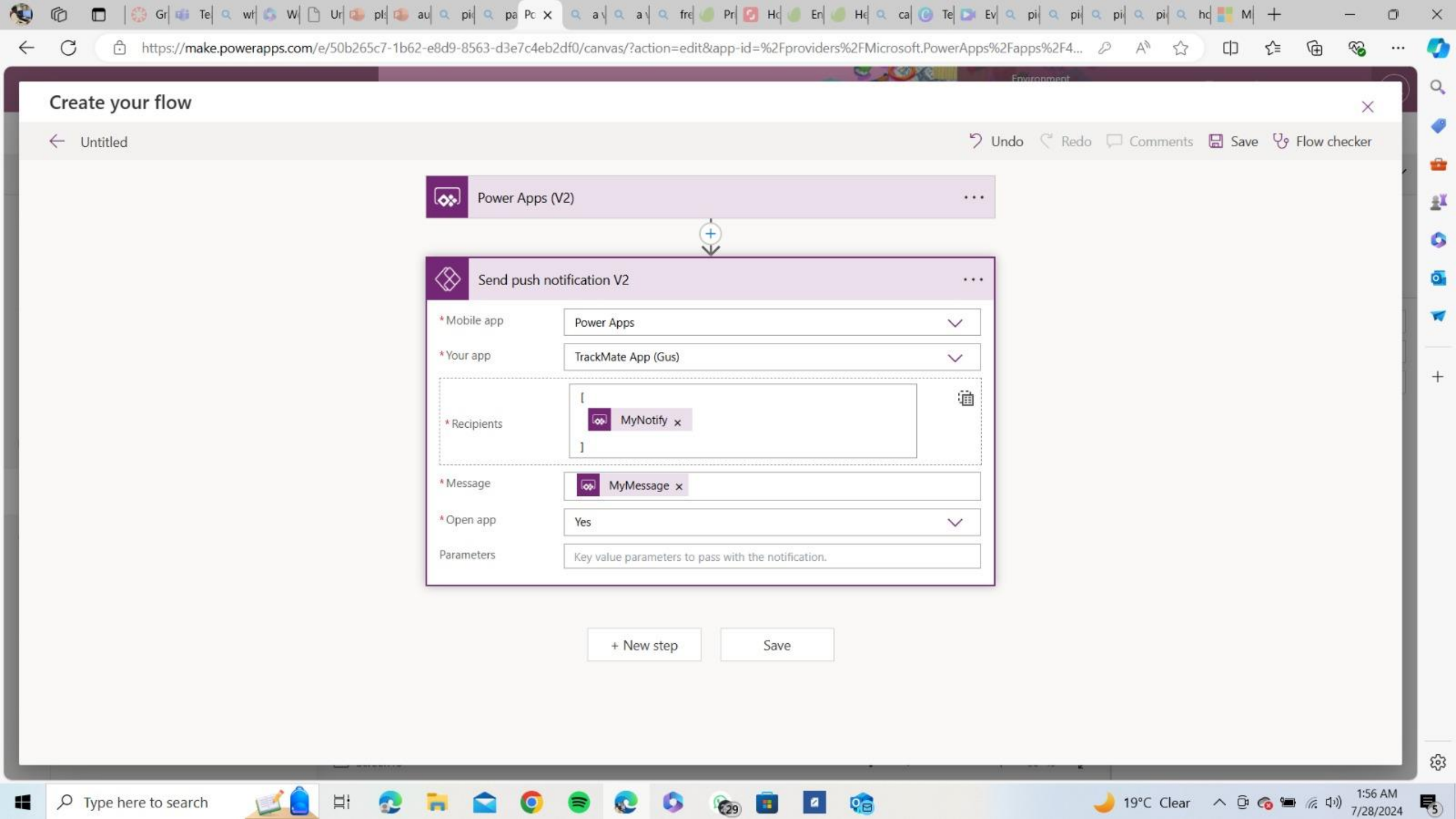


Inventory Cost




MESSAGE
Enter your notification message here
NOTIFY WHO?
Enter the recipient's email here
SEND
SEND A PUSH NOTIFICATION


Freedor
52m
Sun 28 Alarms Off
4:14
Notification Center
TrackMate App (Gus)
1m ago
Hello Tobi, Inventory is running low :(
G.O.B [KC]
Yesterday, 10:18 PM
sent you a Snap
Mofe
Yesterday, 8:32 PM
On my break
penguinz0
Yesterday, 8:15 PM
It Was Calling Out to Me Again
Yesterday, 9:12 AM
New Snap from
DOESN'T
WORK HARD.


Create your flow
Untitled
Undo
Redo
Comments
Save
Flow checker
Power Apps (V2)
Send push notification V2
*Mobile app
Power Apps
*Your app
TrackMate App (Gus)
*Recipients
MyNotify
*Message
MyMessage
*Open app
Yes
Parameters
Key value parameters to pass with the notification.
+ New step
Save

Conclusion

- The project achieved its objectives by providing a strong inventory management system that improves accuracy and efficiency.
- The system's ability to provide real-time data and its user-friendly interface have greatly enhanced inventory management processes.
- **Future efforts** may involve combining sophisticated analytics, like predictive inventory control, and broadening the system to encompass other departments or sites.
- Incorporating automated alerts for restocking and connecting with supply chain management systems could boost the system's capabilities.