

TrackMate

📍 *Inventory Management System*

By
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Computer Prog Student
Niagara College Toronto



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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.

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



Innovative
Flexibility

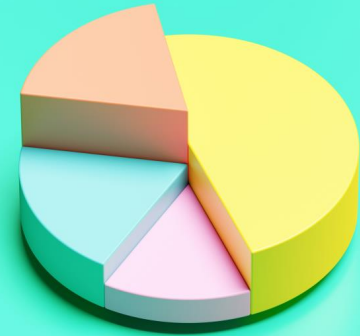
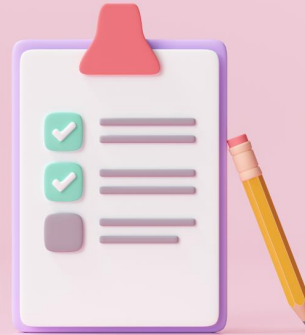


Highly
Scalable



Time
Saving





App Goal

Methodology

Data and Experiments





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.

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.



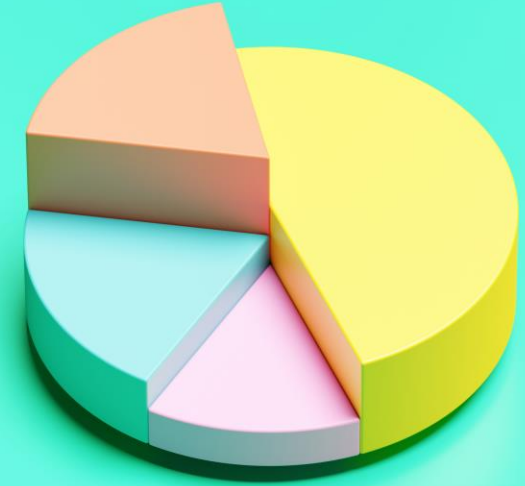
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Methodology



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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.



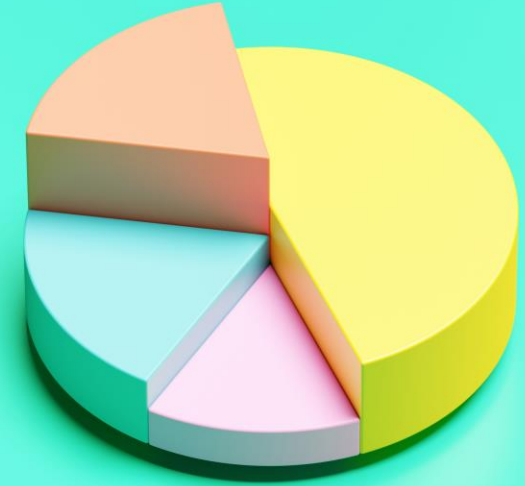
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Methodology

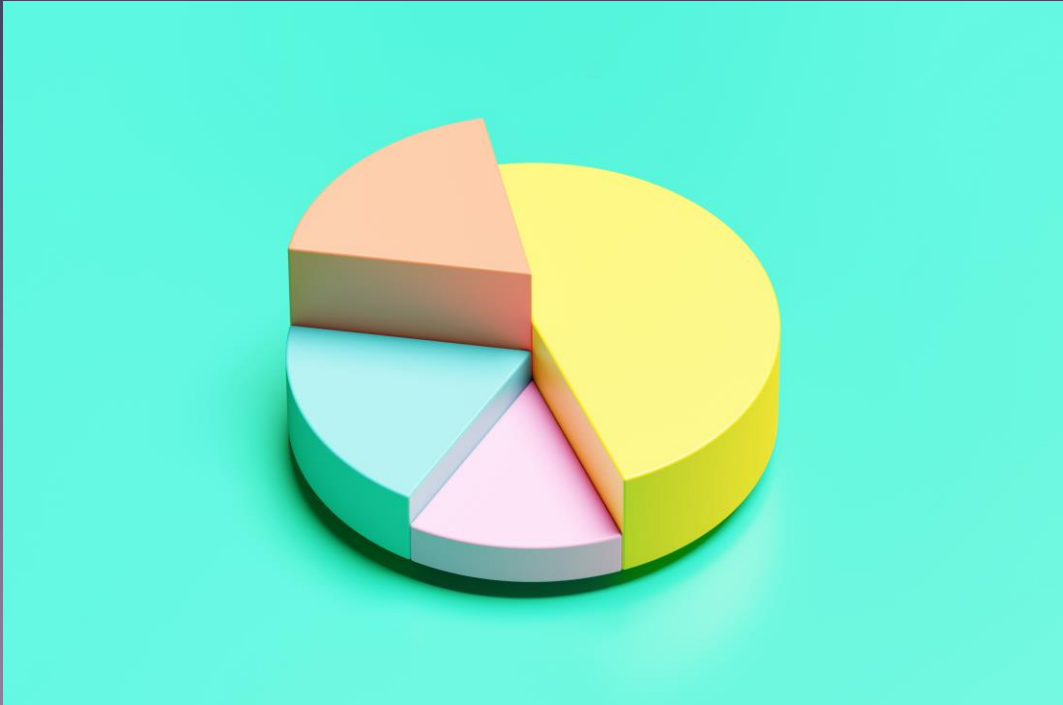
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Data and Experiments

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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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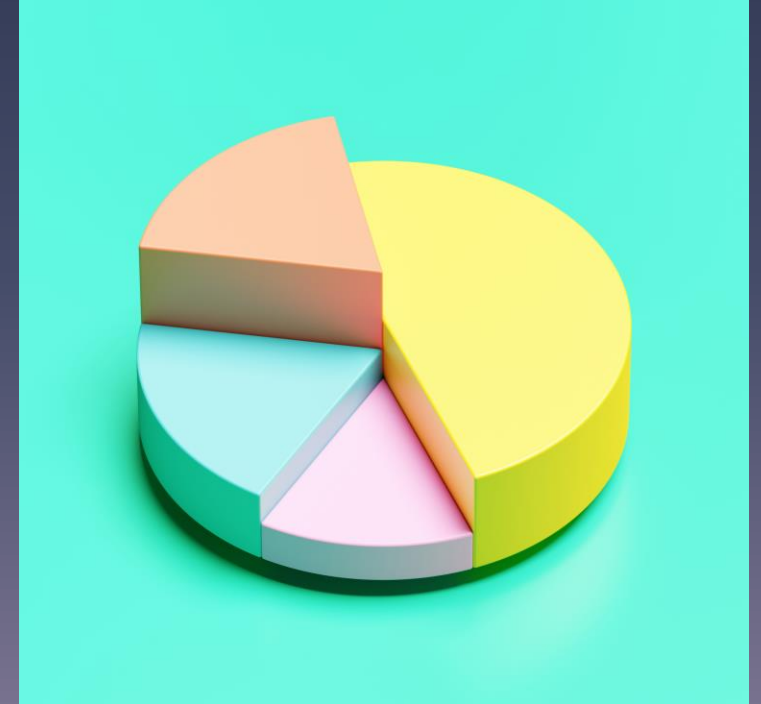
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Results & Observation

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



Login To TrackMate



Enter your username



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

Trackmate. we care.





Inventory



Dashboard



Welcome Tobi



TRACKMATE

ORDER INVENTORY

100

Painkiller



10

Stethoscope



500

Bandages



SPONSORED BY E-MEDICAL'S CANCER RESEARCH FUNDRAISER



The Rommel Medical Research Institute

OUR CYCLERS HAVE RAISED OVER \$100,000

for Childhood Cancer Research!

CYCLING FOR A CURE UPDATE

3:46

📞 24m



< Inbox



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



Expiry Date

12/31/2022

19

00

Image of Item



Name

Painkiller

Quantity

100

Item ID

001

Category

Medicine

Status

Active

Modified On

7/27/2024 11:41 PM

Inventory

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



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

Contact Person

John NCT

Email

supplier1@example.com

Name

NCT

Phone Number

123-456-7890

Address

123 Main St

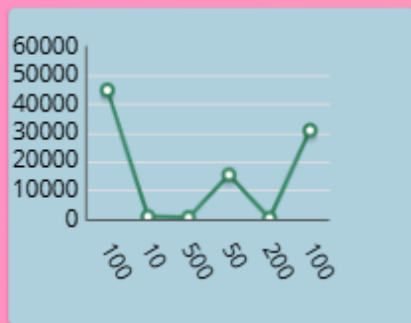
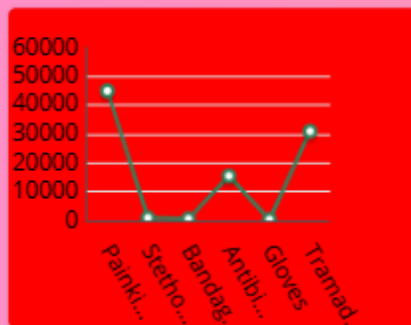
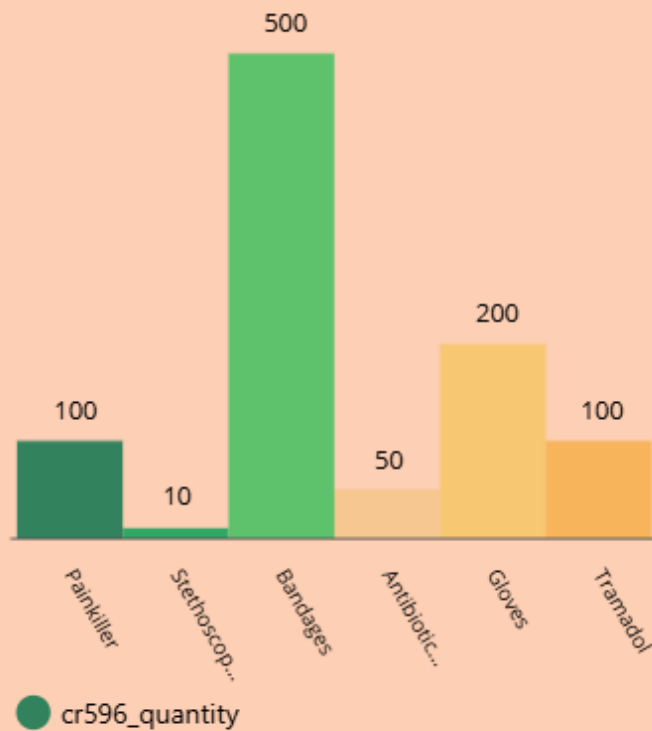
IMAGE OF SUPPLIER



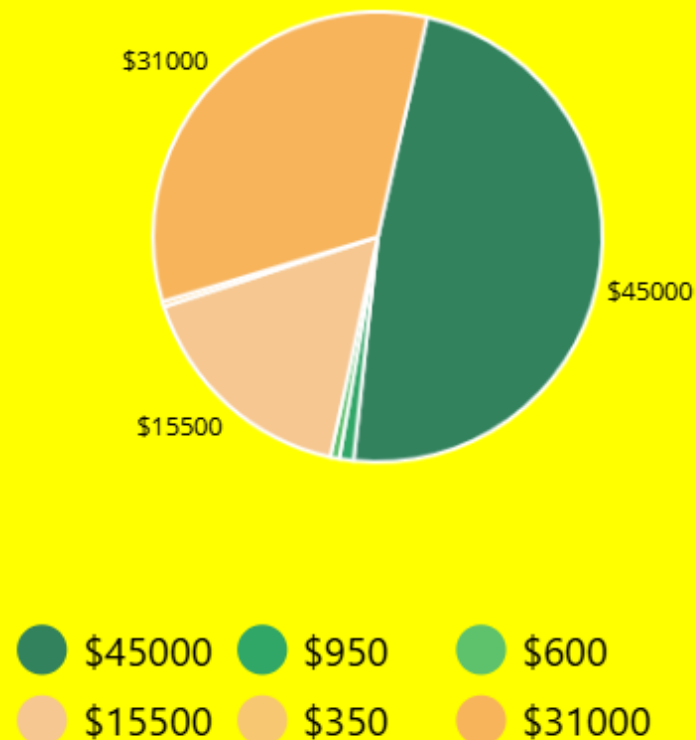


INVENTORY ANALYTICS

Live Inventory



Inventory Cost



MESSAGE

Enter your notification message here

NOTIFY WHO?

Enter the recipient's email here

SEND

**SEND A PUSH
NOTIFICATION**



Freedom

52m

RECEIVED



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



New Snap from

Yesterday, 9:12 AM

DOESN'T
WORK HARD.



×

Undo Redo Comments Save Flow checker

+ 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.

