



# SeafoodTrace

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Inventory Management with RFID

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# TEAM



*Josueh  
Cabrera*



*Johan  
Aguilar*



*Ricardo  
Córdova*

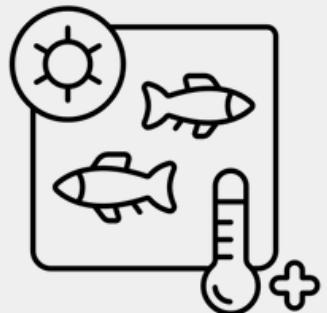


*Deco  
Acierno*

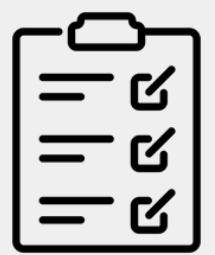
# INTRODUCTION



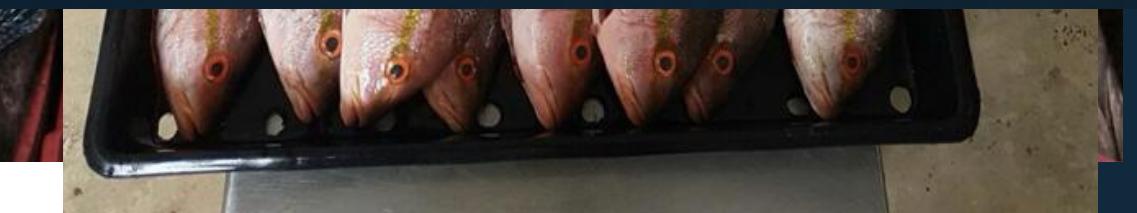
SeafoodTrace Demo Presentation,  
a software solution



Chelem: recap of our trip



Challenges and areas of  
opportunity that inspired us



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# PRODUCT OVERVIEW

## Introduction to SeafoodTrace

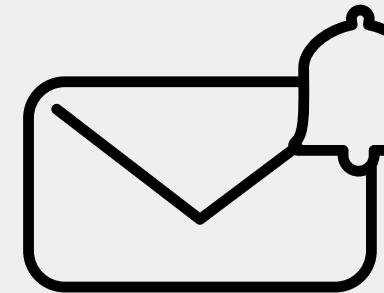
- An full automated **inventory system**.
- Combination of **RFID** technology and object-oriented software.
- Connection to a robust **database** for real-time tracking and control.



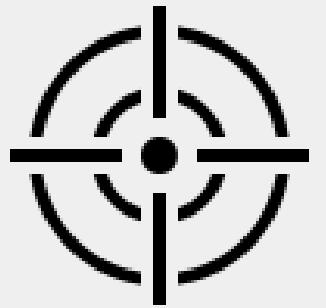
# KEY FEATURES



Automated Management  
of Inputs and Outputs



Reporting and Alerts  
System

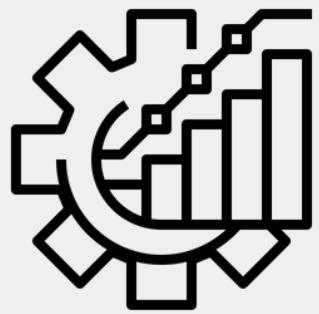


Precise Control and  
Optimized Management



Creation of documents  
for product management

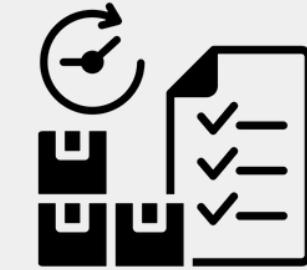
# OBJECTIVES



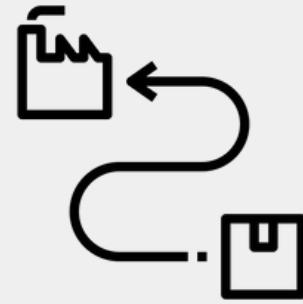
Optimize  
inventory  
management.



Ensure precise  
control.



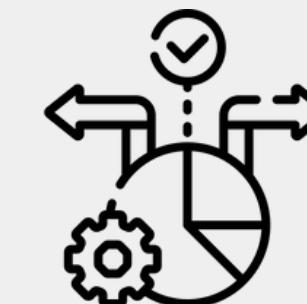
Minimize  
product  
losses.



Enhance  
traceability.



Achieve time  
and cost  
savings.



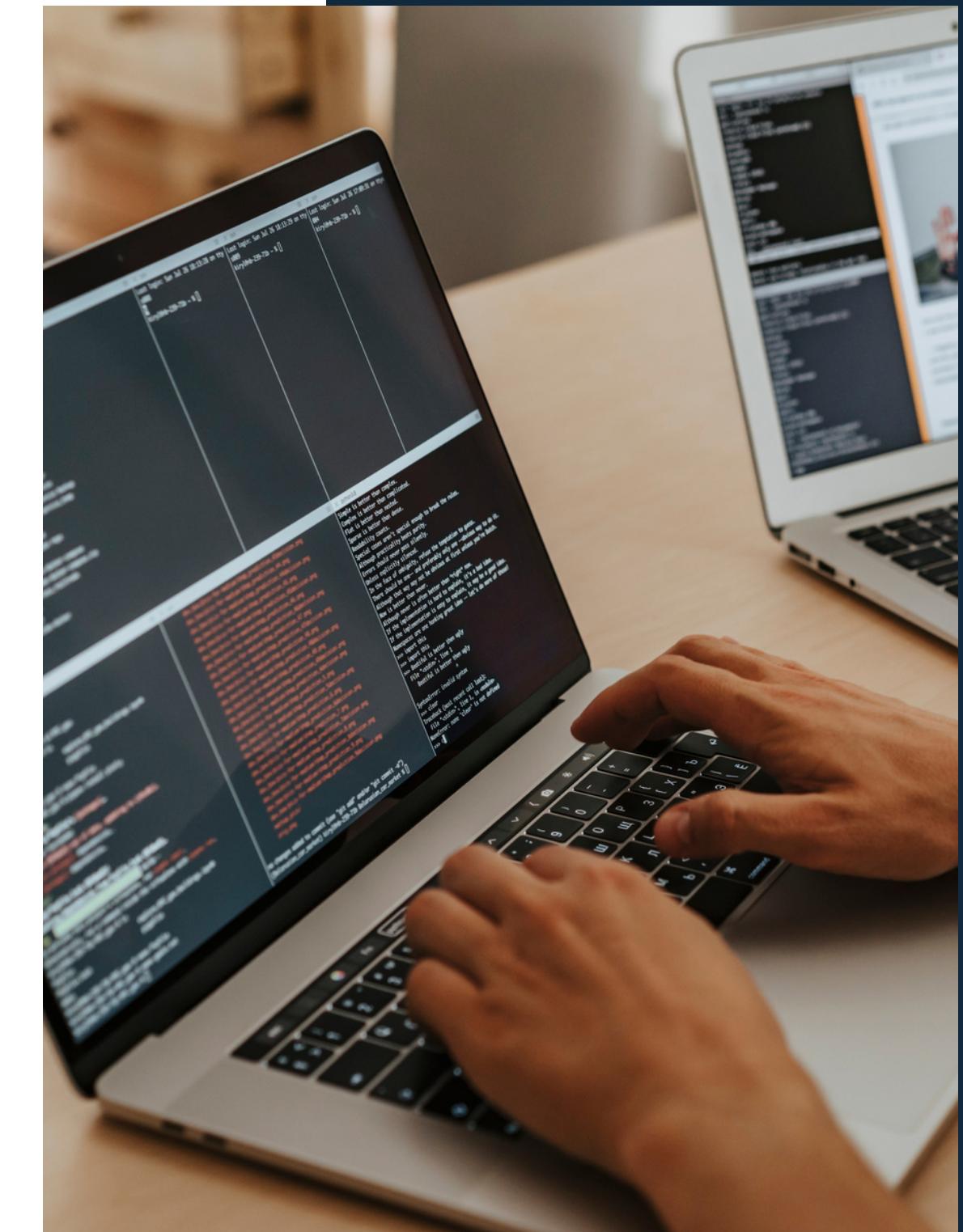
Improve  
decision-making  
for perishable  
products.

# PROJECT DEVELOPMENT

SeafoodTrace product definition in the first project delivery

Start coding in the second delivery

Challenges of the final project delivery



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# FIRST DELIVERY:

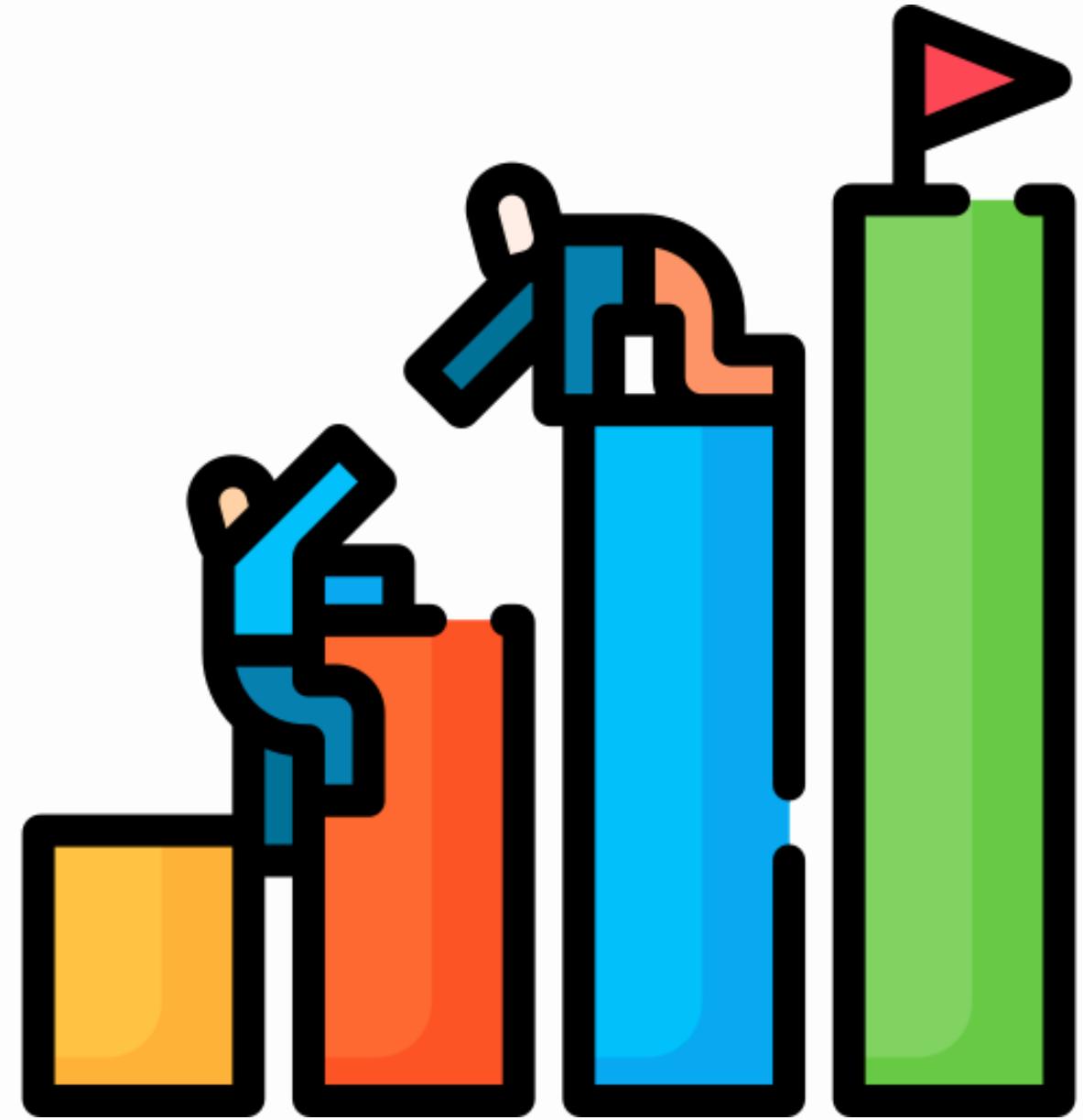
- We **define** every aspect of the product.
- Worked on functional and non-functional **requirements**.
- Creation of **class diagram** and **use case diagram**.



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# SECOND DELIVERY:

- Substantial **modifications** shaped the project.
- Modifications in **requirements** definitions and adjusted **class and use case diagrams**.
- Start coding the **MVC** in Python and the **UI** with Django framework



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# FINAL DELIVERY:

- Radical changes in the **MVC**.
- We chose to use Java and Springboot.
- **RFID** technology was successfully integrated.



Let me introduce you to...  
SeafoodTracer

# PRODUCT DEMO

SeafoodTrace System Inventory

SYSTEM

Dashboard

OPTIONS

Products

New Product

Read Products

Generate Document

You have products close to expiration

## Dashboard

Dashboard

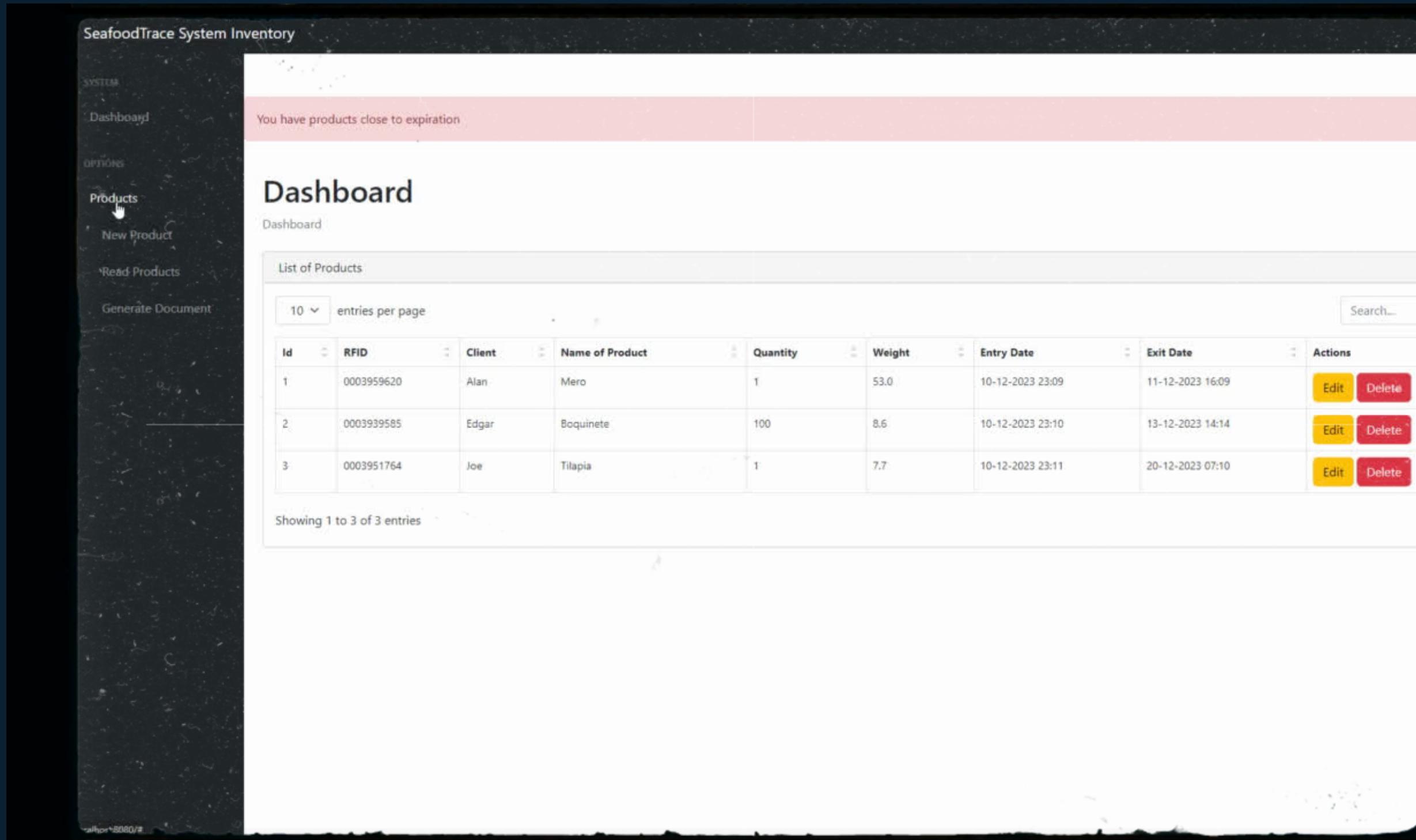
List of Products

10 entries per page Search...

ID	RFID	Client	Name of Product	Quantity	Weight	Entry Date	Exit Date	Actions
1	0003959620	Alan	Mero	1	53.0	10-12-2023 23:09	11-12-2023 16:09	<button>Edit</button> <button>Delete</button>
2	0003939585	Edgar	Boquinete	100	8.6	10-12-2023 23:10	13-12-2023 14:14	<button>Edit</button> <button>Delete</button>
3	0003951764	Joe	Tilapia	1	7.7	10-12-2023 23:11	20-12-2023 07:10	<button>Edit</button> <button>Delete</button>

Showing 1 to 3 of 3 entries

https://8080/#



# USER INTERFACE

SeafoodTrace System Inventory

SYSTEM

Dashboard You have products close to expiration

OPTIONS

Products

New Product

Read Products

Generate Document

## Dashboard

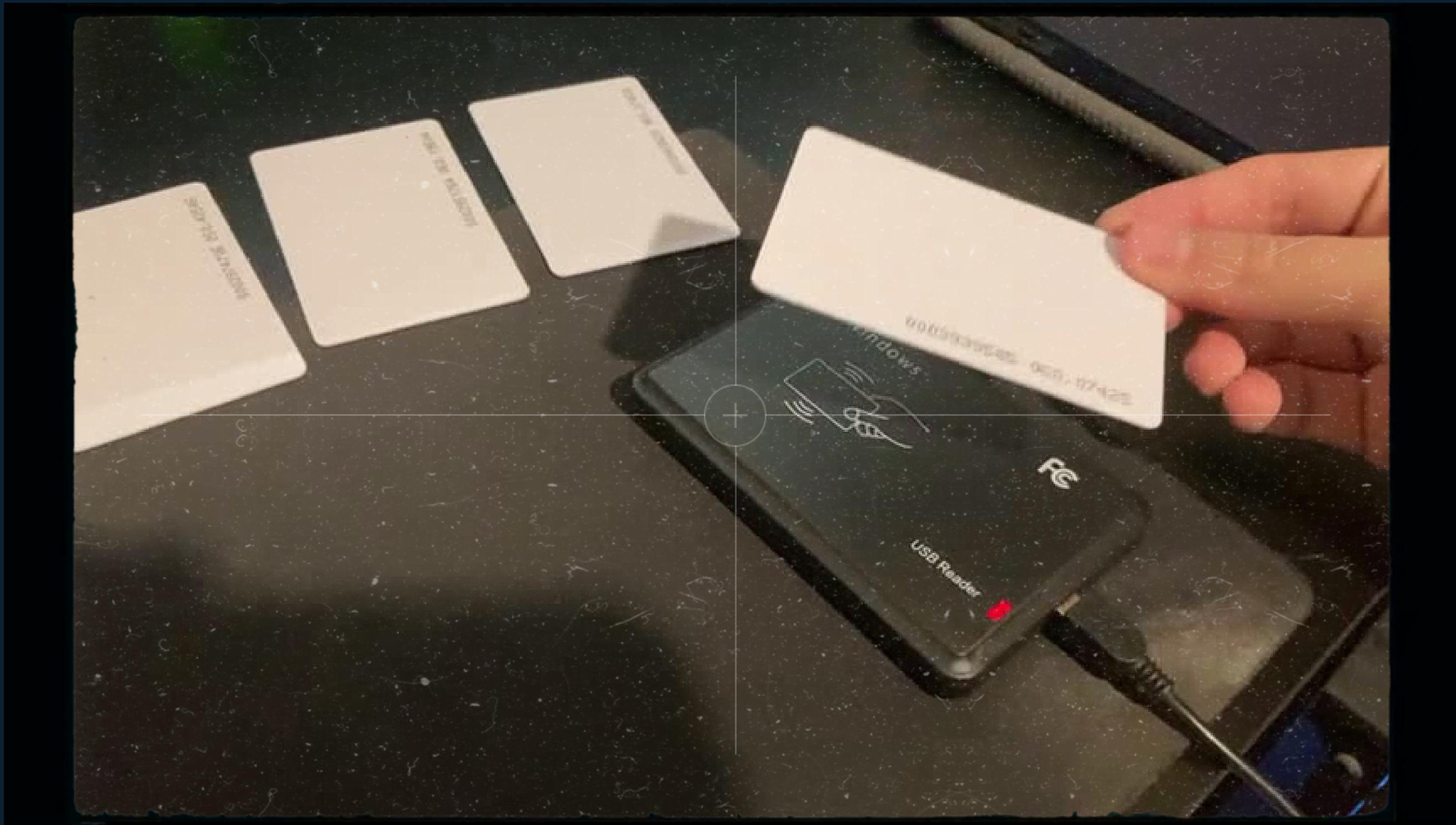
Dashboard

List of Products

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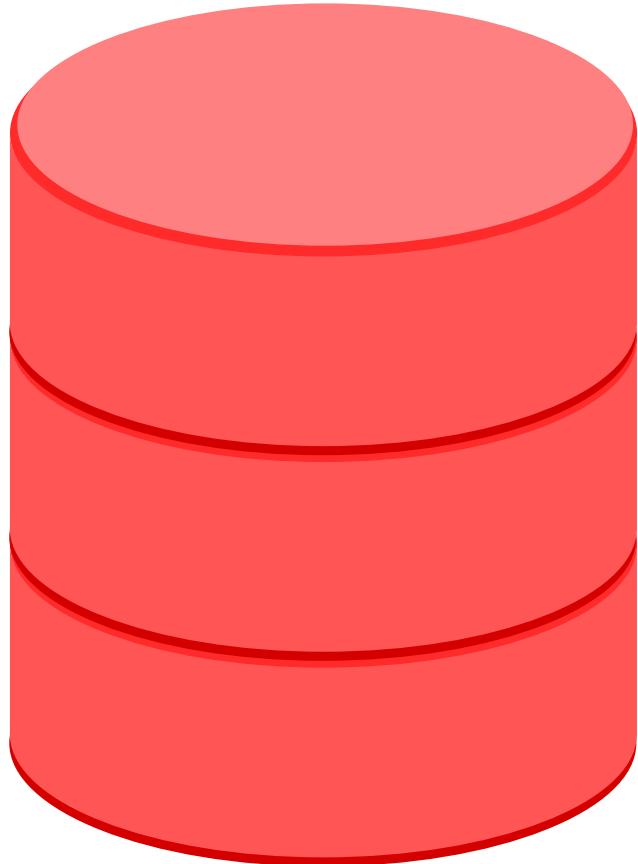
# RFID IN ACTION



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# DATABASE



Our database is Powered by **SpringBoot framework**, it means is seamlessly managed through a **Repository**.

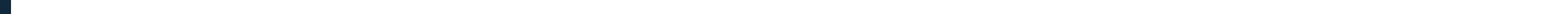
SeadfoodTracer works from two tables, one table dedicated to the products, and another table linking an RFID identifier to each product.



# IN CONCLUSION

We look forward to continuing our work and taking the next steps in the implementation of our product. As we conclude this presentation, I want to express our gratitude for your time and kind attention.





THANK  
YOU

