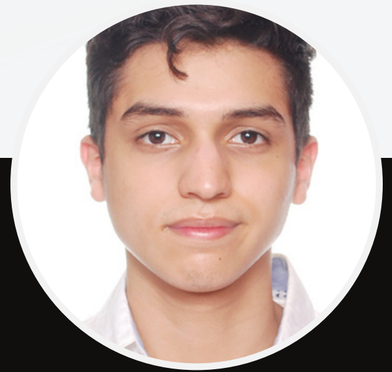
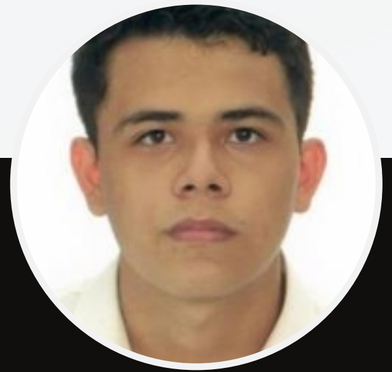
SeafoodTrace

Inventory Management with RFID

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

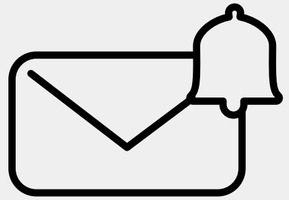
PRODUCT OVERVIEW

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.

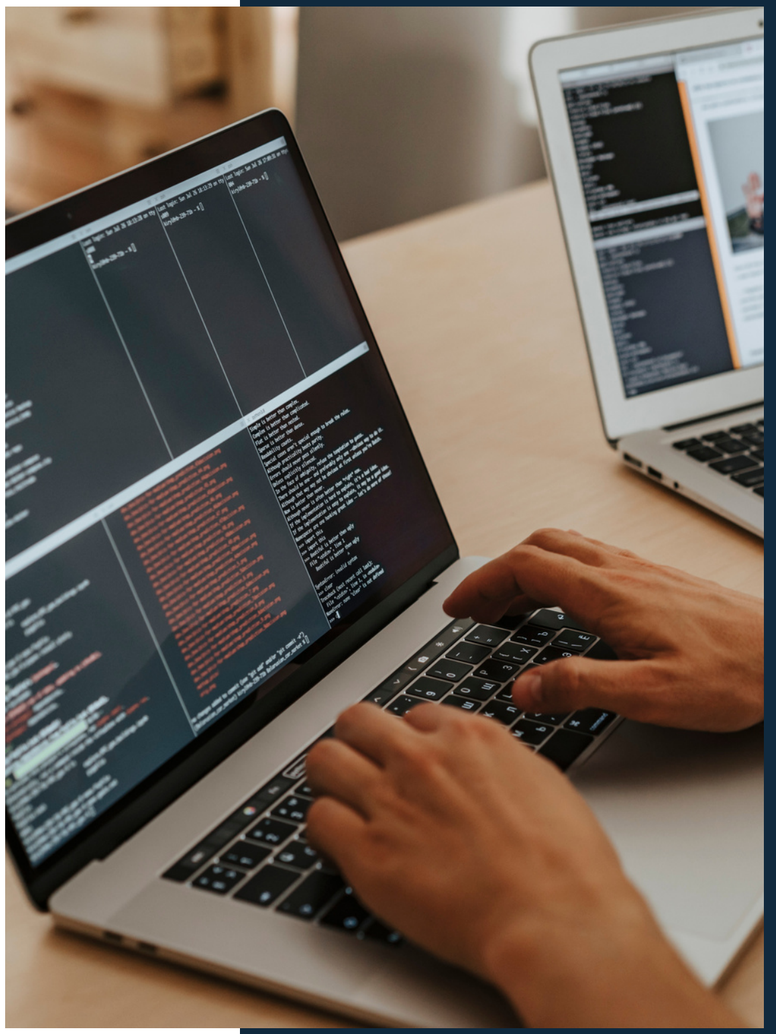
Improve decision-making for perishable products.

PROJECT DEVELOPMENT

SeafoodTrace product definition in the first project delivery

Start coding in the second delivery

Challenges of the final project delivery

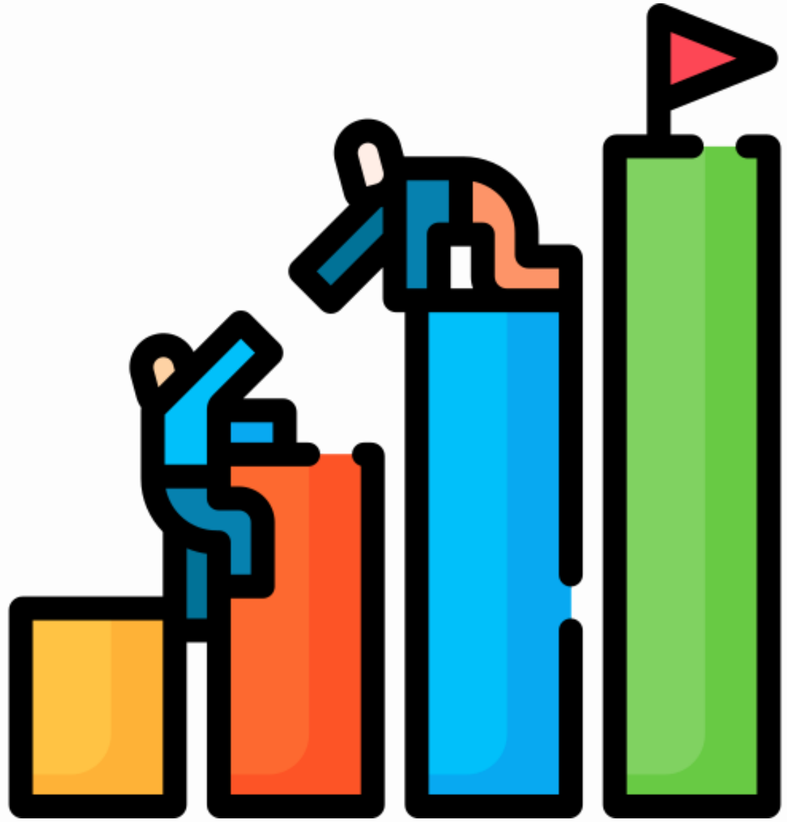


FIRST DELIVERY:

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

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

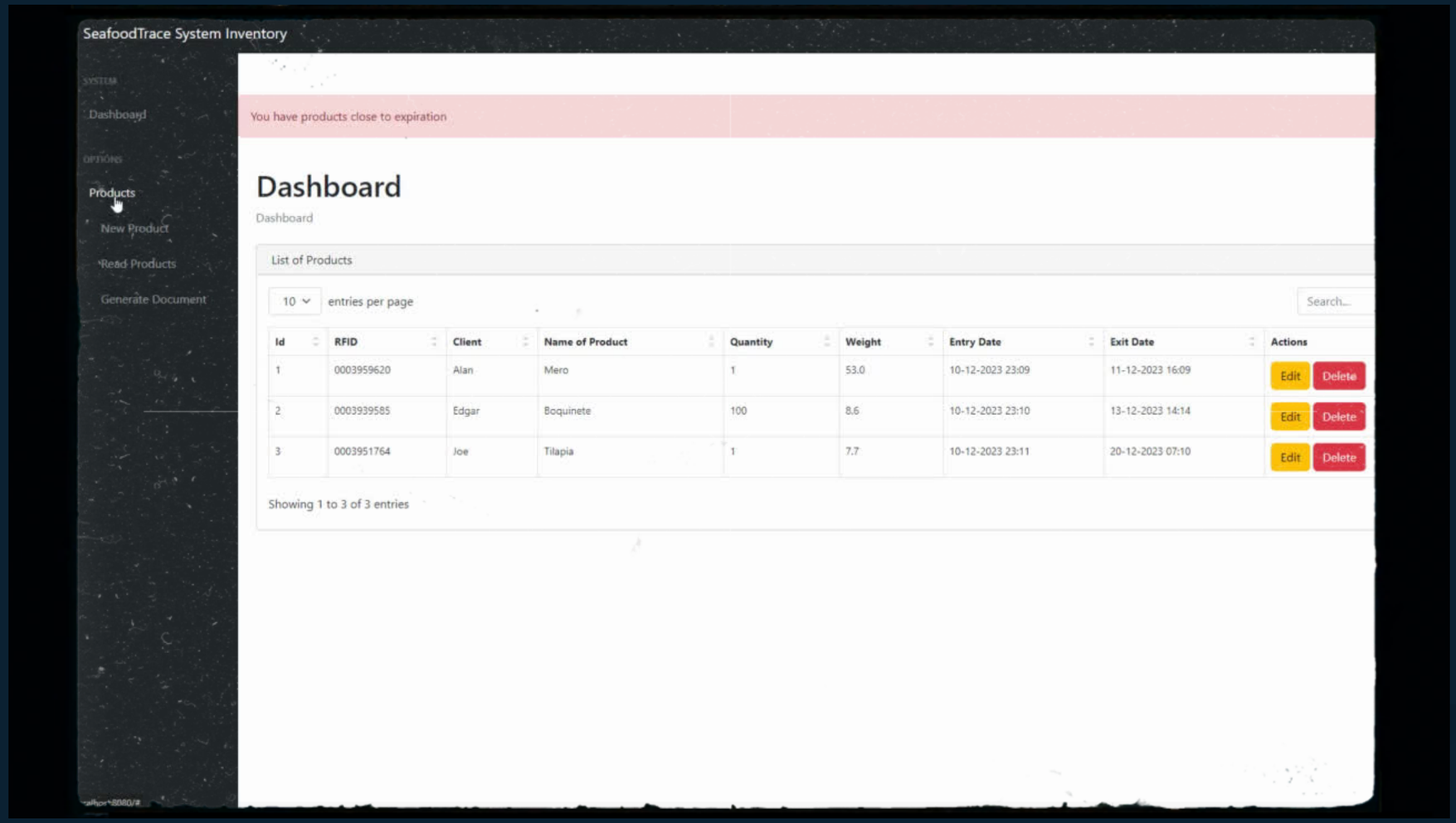


FINAL DELIVERY:

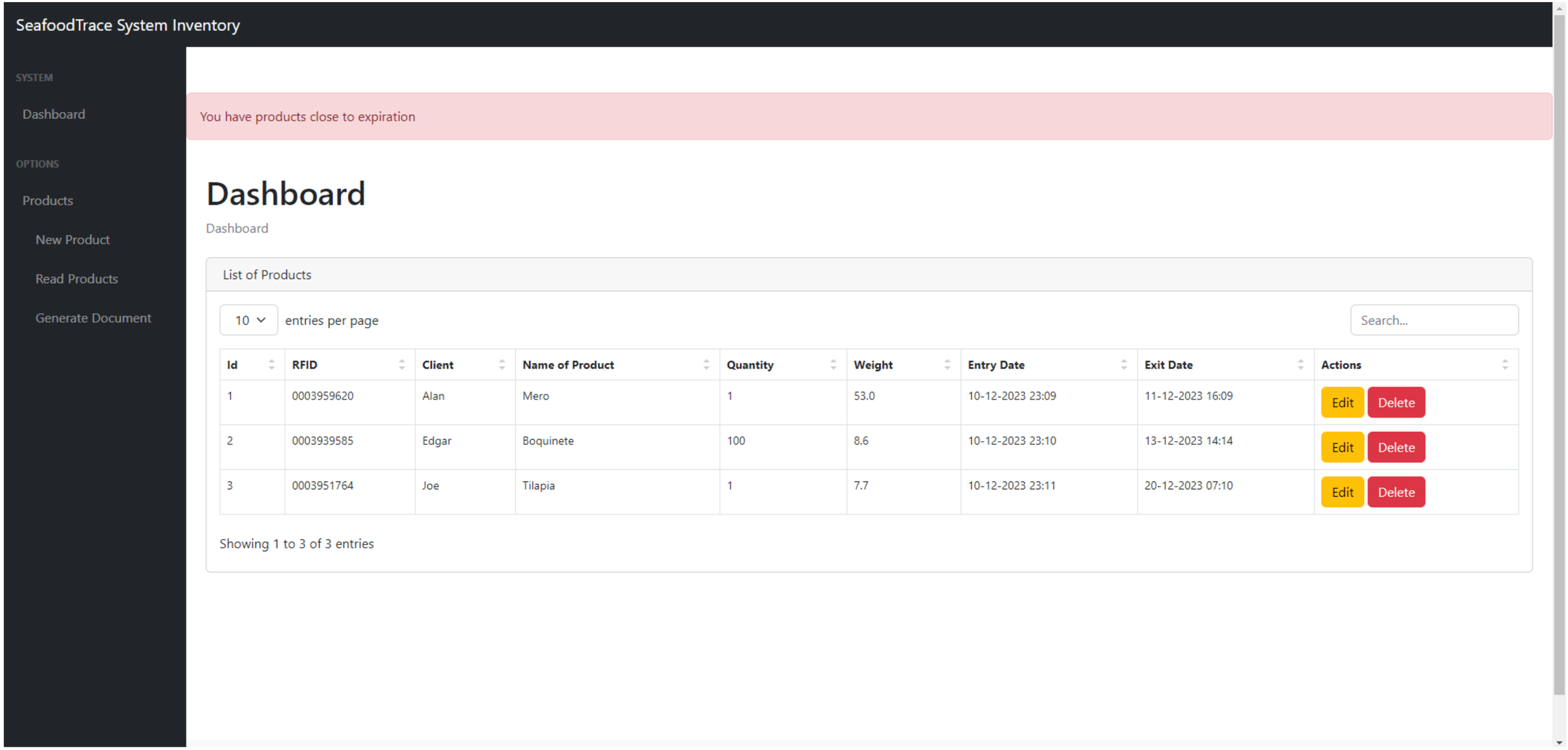
- Radical changes in the **MVC.**
- We chose to use Java and Springboot.
- **RFID** technology was successfully integrated.

Let me introduce you to...
SeafoodTracer

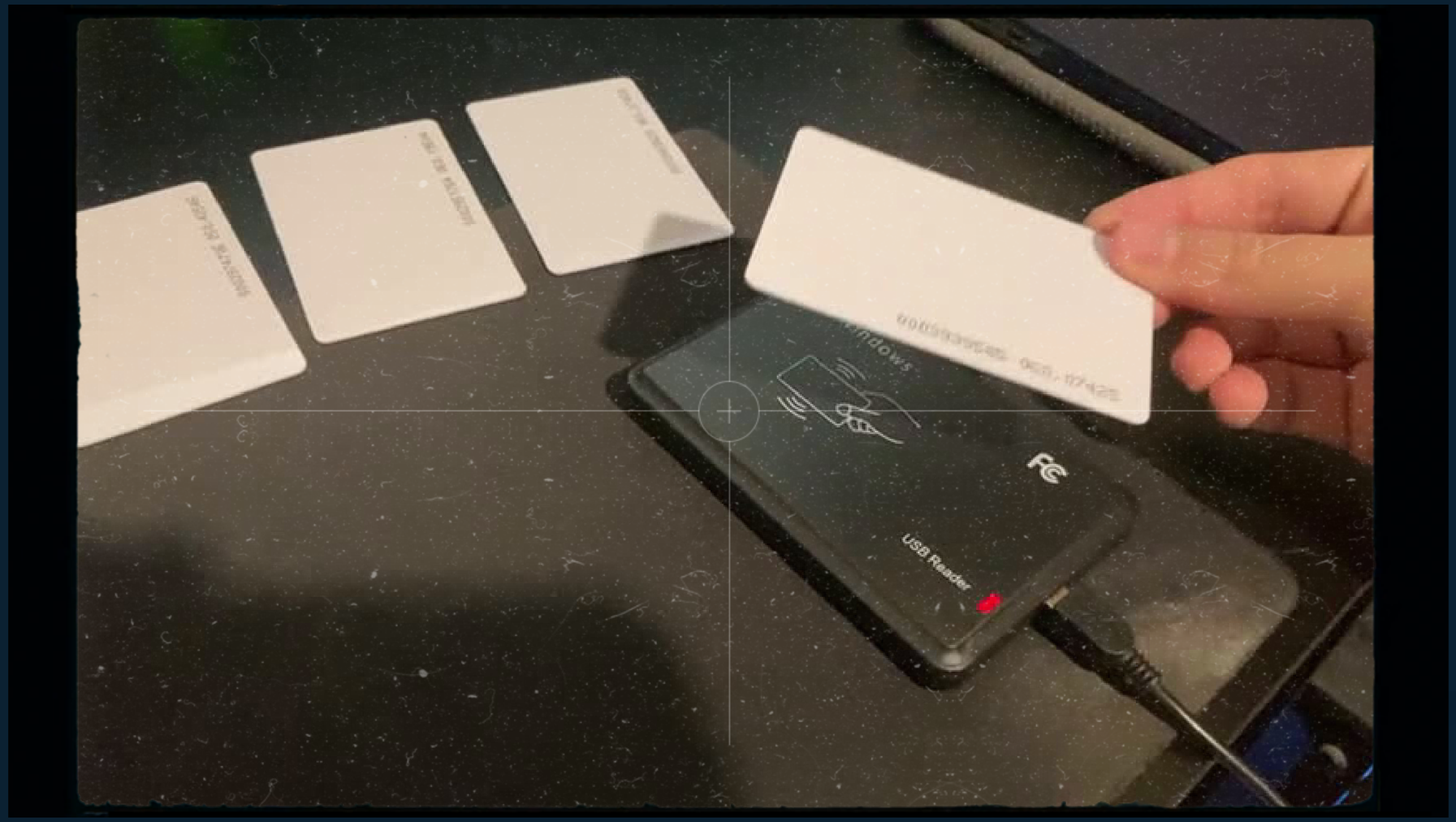
PRODUCT DEMO



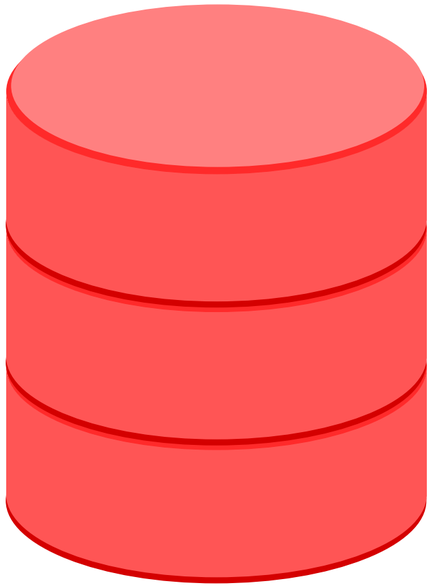
USER INTERFACE



RFID IN ACTION



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