GROUP 1
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Wiley Edge Final Project

Shop orders management tool

Full Stack Application

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BUSINESS MODEL

- Create an order management system to be used by small business owners to visualize and manage various custom orders coming in
- Have a login page so each user's order inventory will only be visible to them
- Implement a geographical representation of the clients' positions in order to picture the dispersion of orders across the globe

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The Project: Shopping Management tool

- Create a frontend application in Angular with interface for:
  - Displaying all the orders of a business owner
  - Display orders details

- Create a backend application in JAVA JPA to request http services and execute CRUD actions on the database
  - SQL Database MySQL
  - Spring JPA
  - Google Maps API and OpenWeatherMap API to visualize the buyer's geographical position

git

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DATABASE

Define business logic

Define entities

Define relationships

Normalization of databases

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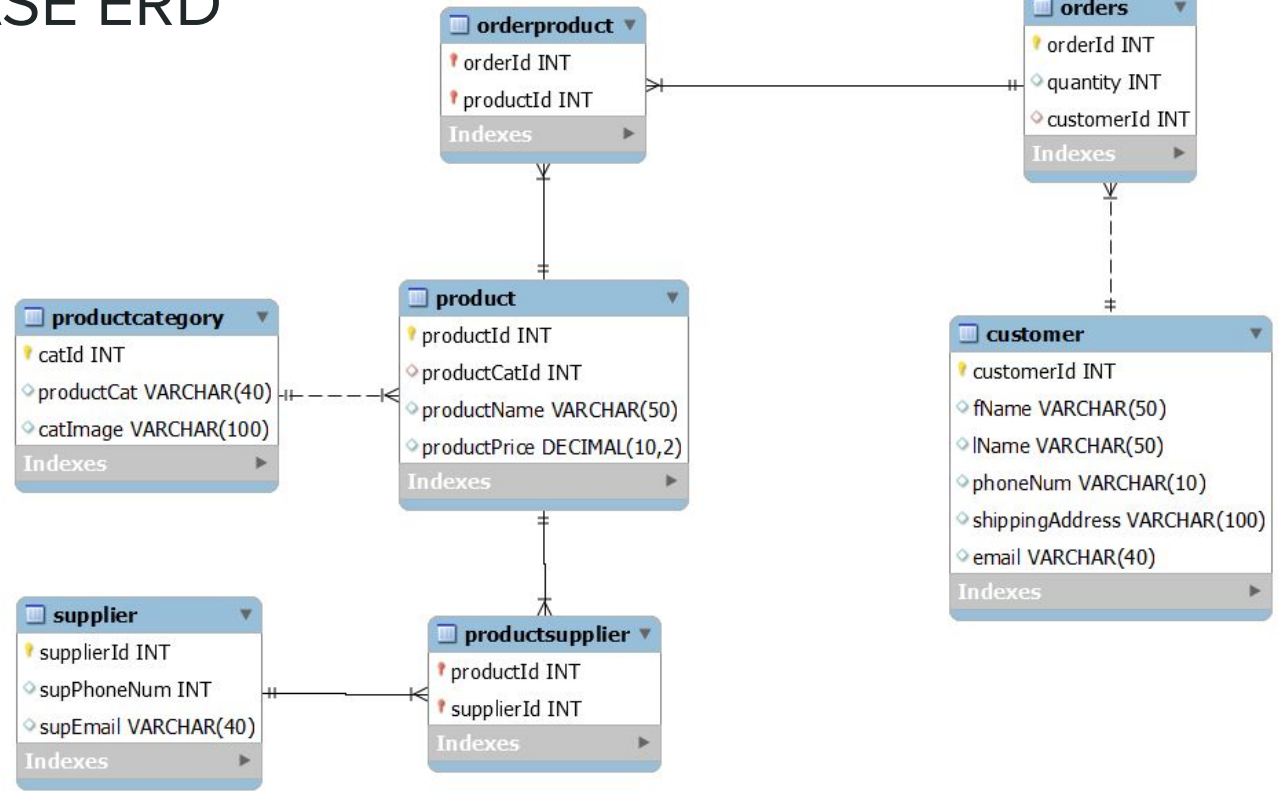
DATABASE ERD



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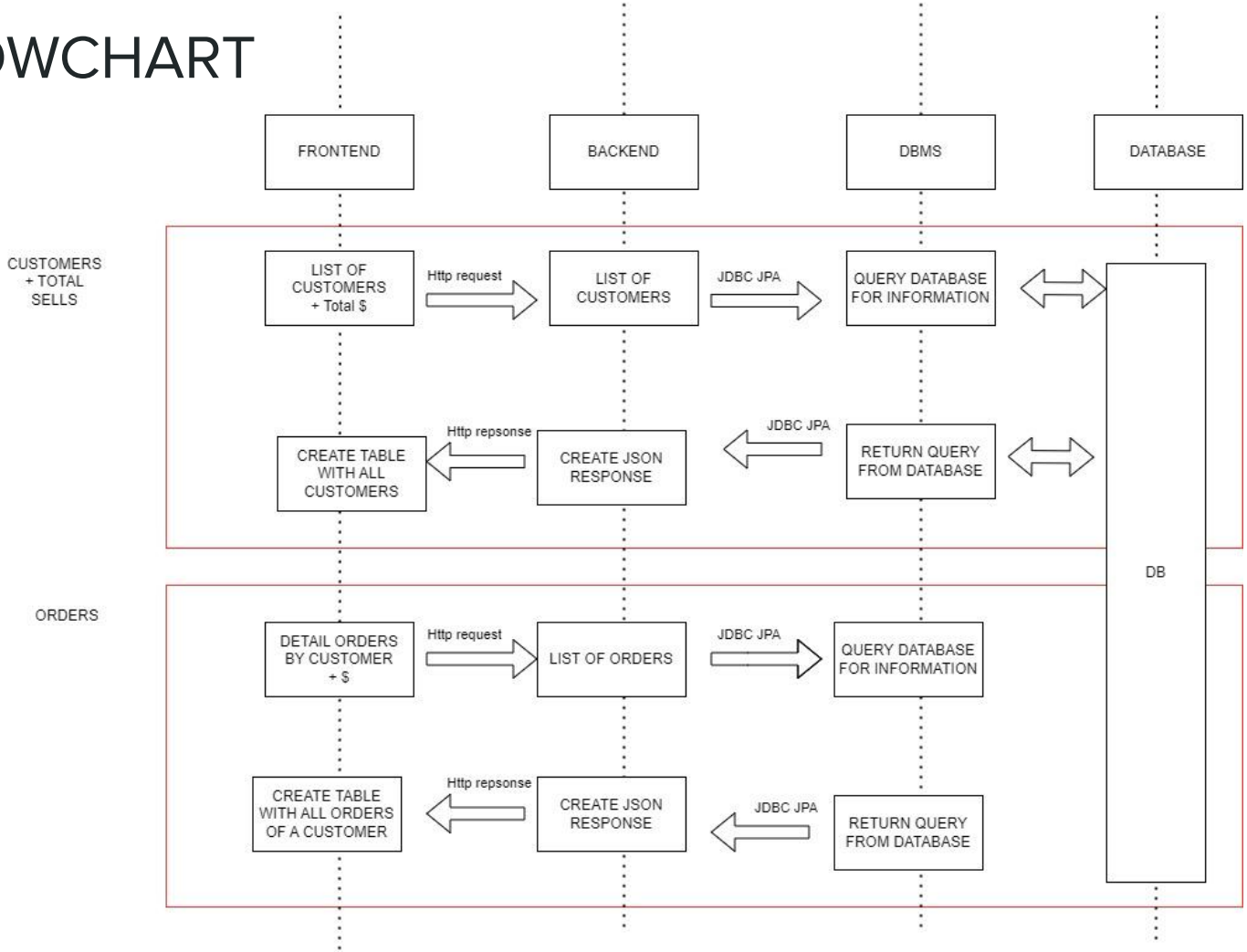
FLOWCHART



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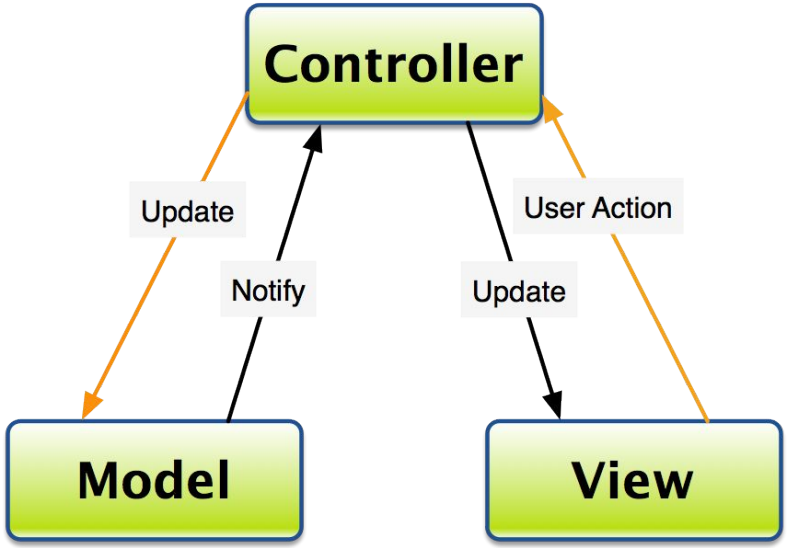
JAVA Spring JPA App

MVC Model structure

- Model (data + business logic)
- Control (orchestrate)
- View (user interface
  + displaying the data from the model)

Spring JPA Annotations



JAVA Spring JPA App

CRUD OPERATIONS

@GetMapping

@PathVariable

@PostMapping

@RequestBody

@PutMapping

@RequestBody

@DeleteMapping

@PathVariable

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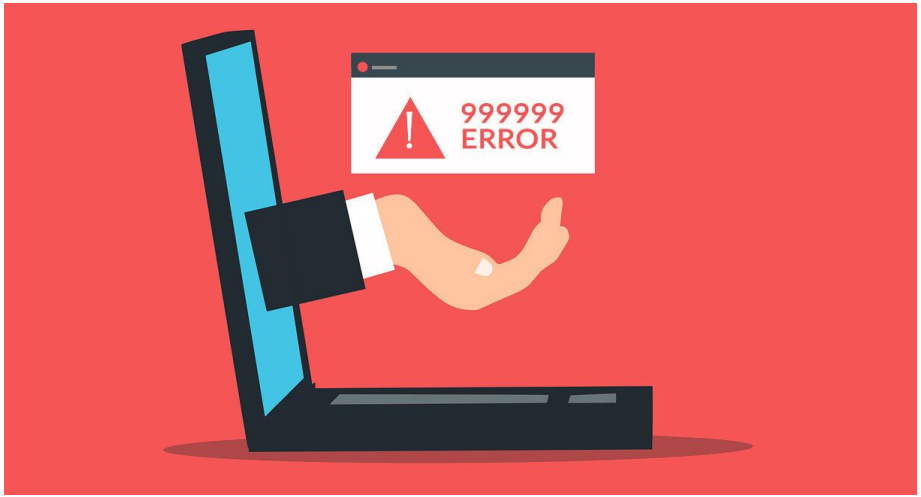
JAVA Spring JPA Exceptions handling

NotAvailableError.java

OrderNotFoundException.java

OrderIdDuplicateException.java

OrderDataValidationException.java



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JAVA Unit test with JUnit suite

JUnit 5

STATEFUL UNIT TEST

- Service layer
- Controller

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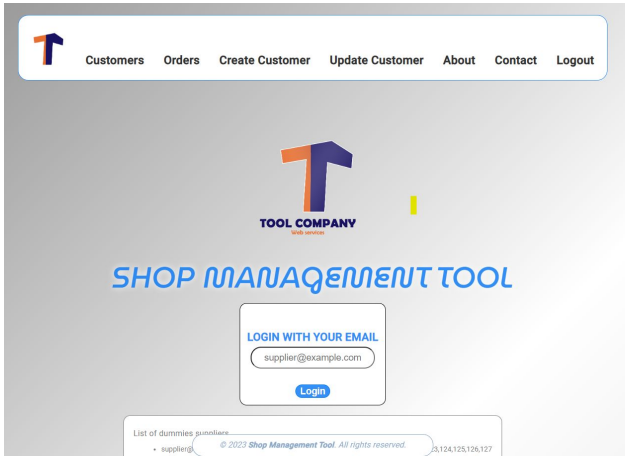
Using the Geographical APIs

-OpenWeatherMap API

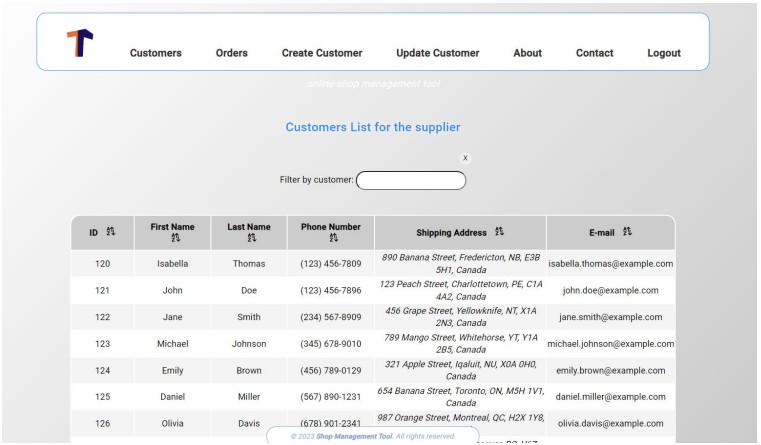
-Google Maps API

FRONTED UI - Angular TS

LOGIN



LIST OF CUSTOMERS



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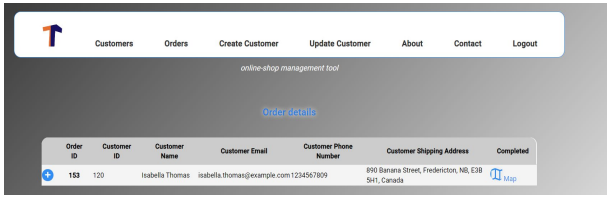
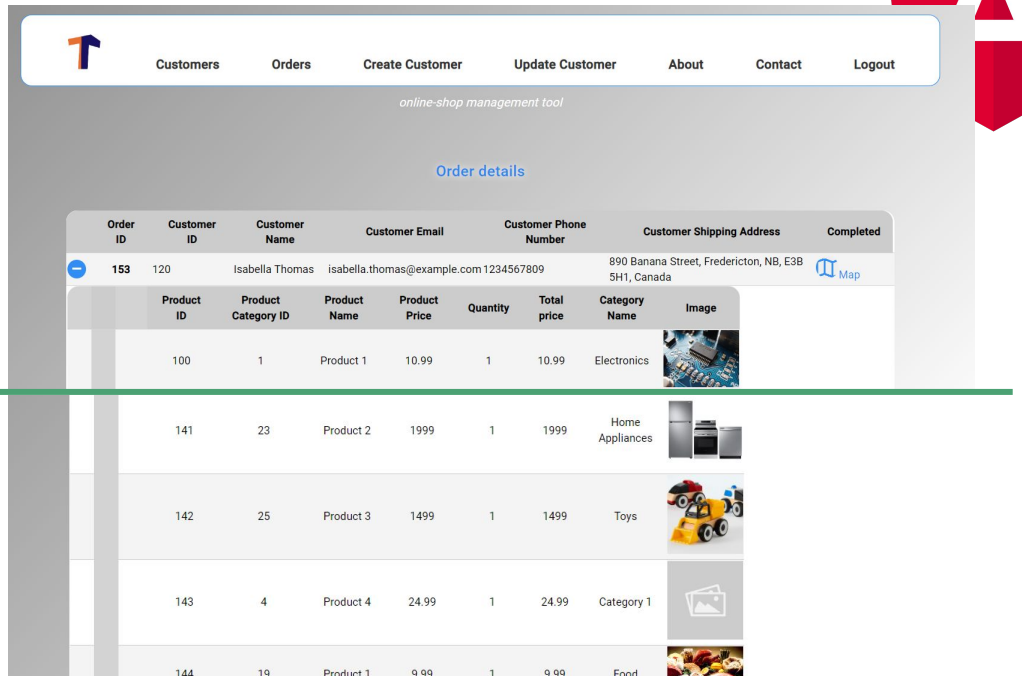
FRONTED UI - Angular

LIST OF CUSTOMERS





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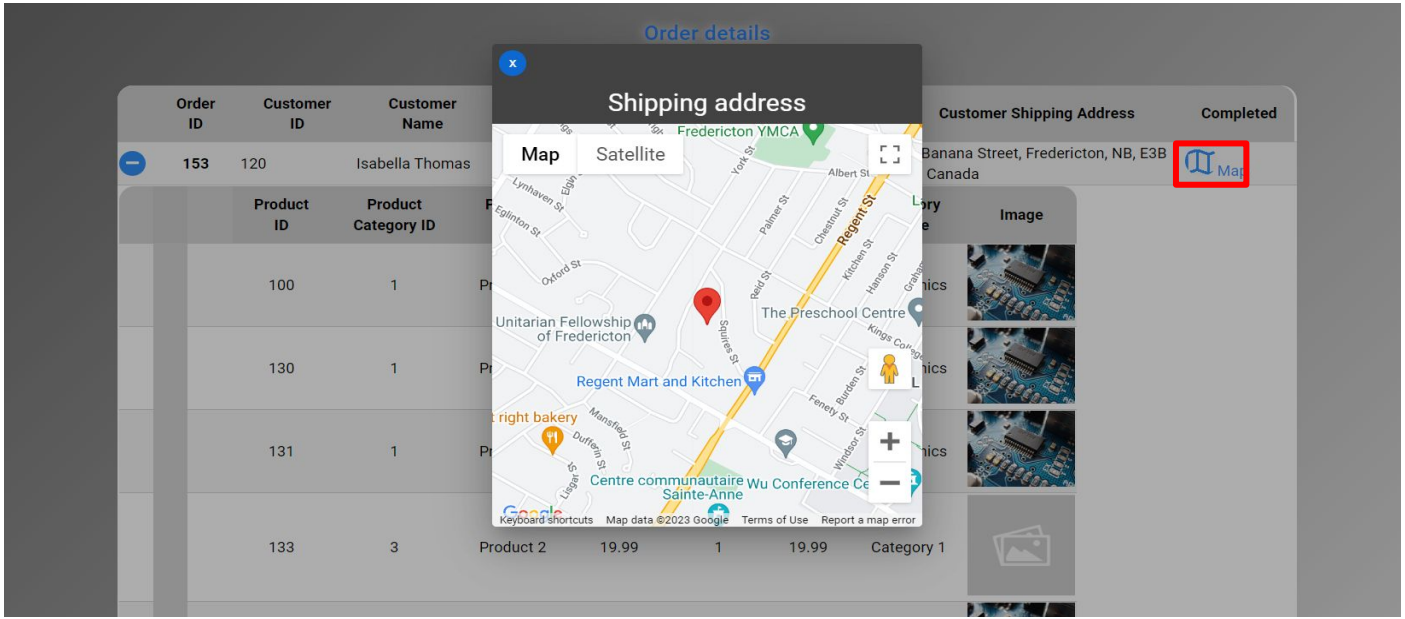
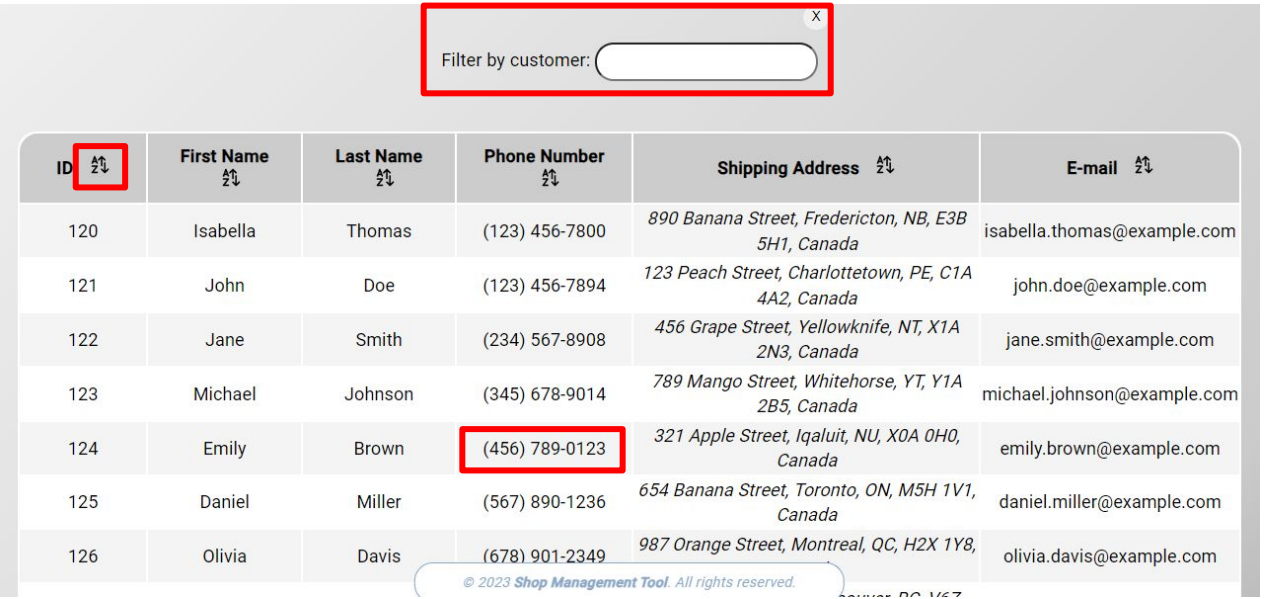
FRONTED UI - Angular

GEOLOCALIZATION



FRONTED UI - Angular

VISUALIZATION



- Filtering service
- Sorting service
- Phone formatting Pipe
- Capitalization Pipe

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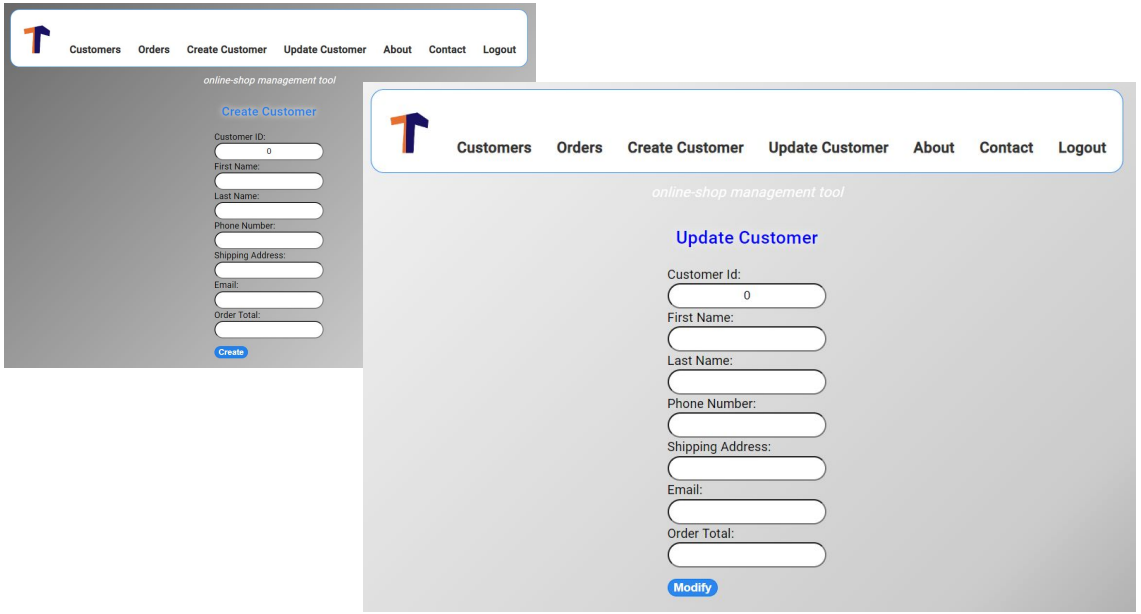
CRUD OPERATIONS FROM WEB INTERFACE



Create, Update UI

+ Endpoints for others operation

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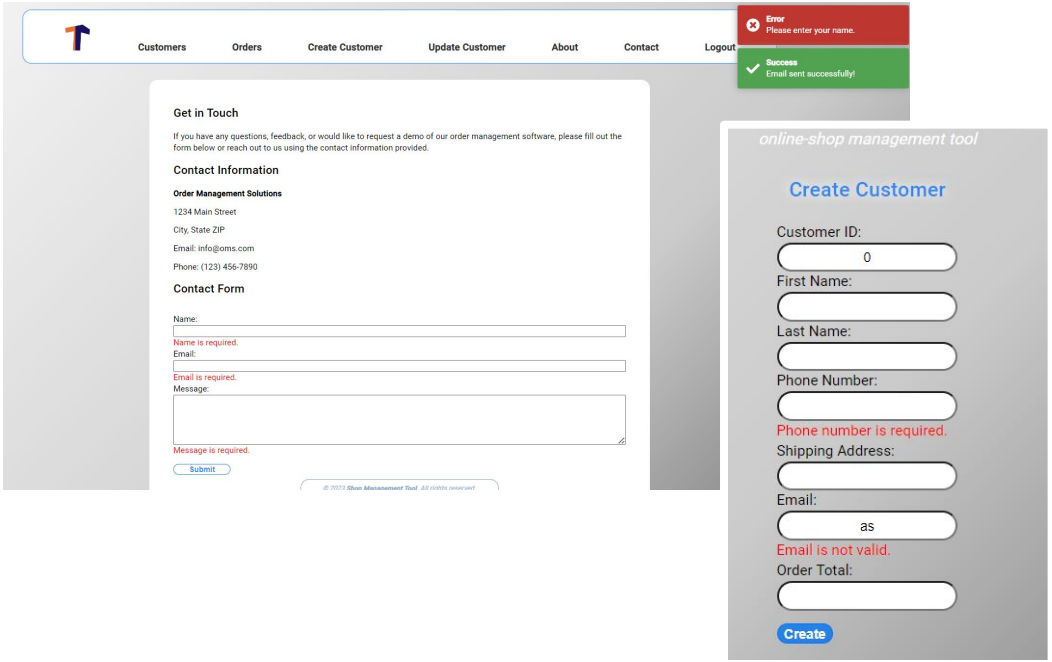
FRONTED UI - Angular

FIELDS VALIDATION



Fields validation

Popup feedback messages

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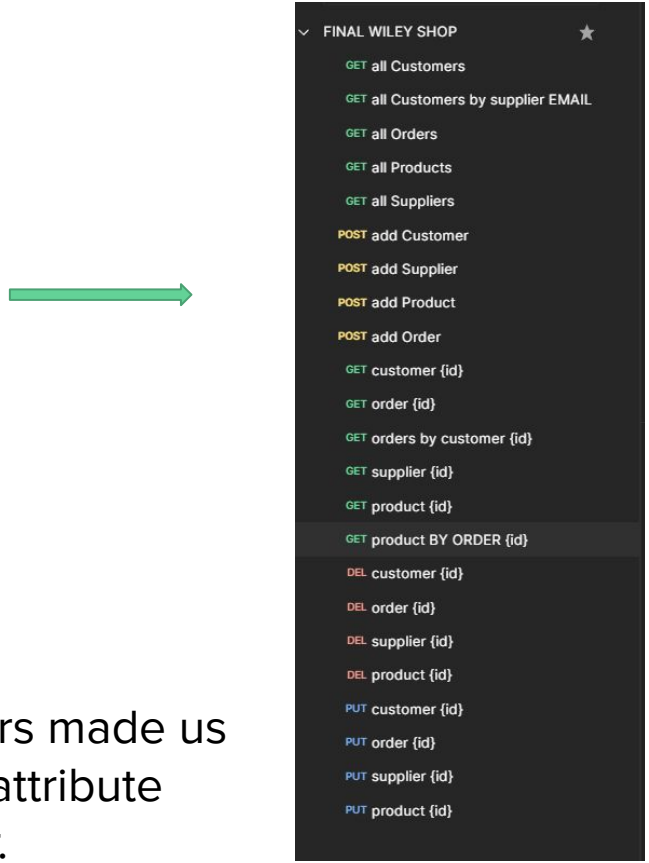
Lessons Learned

- Utilizing an API can be very efficient for the end-user, but it can become very costly for a developer if not tested correctly. APIs can be essential to a business.

Possible improvements

- Provide web interface for all the endpoints created in the backend



- Include user profile with picture

- Implement payment database

- Storing different sessions for different users made us use our SQL abilities in order to correctly attribute each orders/customers to the correct user.

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THANKS

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