

# Title: Final\_project

## Date: 11/12/2024

### Introduction

This is the NOMECH store, it is a luxury e-commerce store showcasing a range of high-end products such as yachts, jets, cars, and villas. The site is aimed at high-end and rich clientele who value travel of high quality.

#### Features

##### **User Registration & Authentication:**

Uses local storage to simulate user registration and login. (Not secure; demonstration only.)

##### **Dynamic Navigation & Dropdown Menu:**

The header is dynamically generated and includes navigation links and a user dropdown menu (Profile, Cart, Log Out).

##### **Contact Section:**

A contact form allows users to send messages directly to the site owner.

##### **Product Pages:**

Individual pages display products for each category (yachts, jets, cars, villas). Data is fetched and rendered based on the visited page's category.

##### **Sorting Options:**

Users can sort products by name, price, or various specifications.

##### **ID-Based Product Rendering:**

Clicking a product dynamically updates the URL with a product ID, allowing the page's script to fetch detailed product data from the data object.

##### **Add-to-Cart Functionality:**

Users can add products to their cart, specify the amount, and then proceed to the order page.

##### **Order Page:**

Displays all items in the cart with options to adjust quantities or remove items.

##### **Profile Page:**

Users can view and update their personal information. Validation ensures passwords are only updated if both password and confirmation fields are filled and match.

## **Responsive Design:**

The entire site is mobile-responsive, providing an optimal viewing experience on computers, tablets, and smartphones.

## **Technology Stack**

- HTML5
- CSS3
- JavaScript
- GitHub
- Netlify
- Figma

## **Wireframes/Mockups**

### **Figma:**

<https://www.figma.com/design/nYJgNeWXnTCE9FX0fyfFa4/NOMECH---Final-project?node-id=0-1&t=M758HQyVepLFCWpF-1>

## **Challenges**

It was initially unclear how to best structure the data for products and how to accurately retrieve it when rendering each page. I introduced unique IDs within the data object for every product and category. During rendering, each product's HTML element was assigned a corresponding ID. This makes it possible to easily access the correct product data when a user interacts with any product.

## **Testing**

### **Manual Testing:**

All features were tested manually in Chrome and Firefox, as well as on a mobile

### **Performance & Accessibility Testing:**

Chrome's Lighthouse tool was used to monitor performance, accessibility, best practices, and SEO, I aimed to score above 90 for both desktop and mobile experiences.

### **Debugging & Validation:**

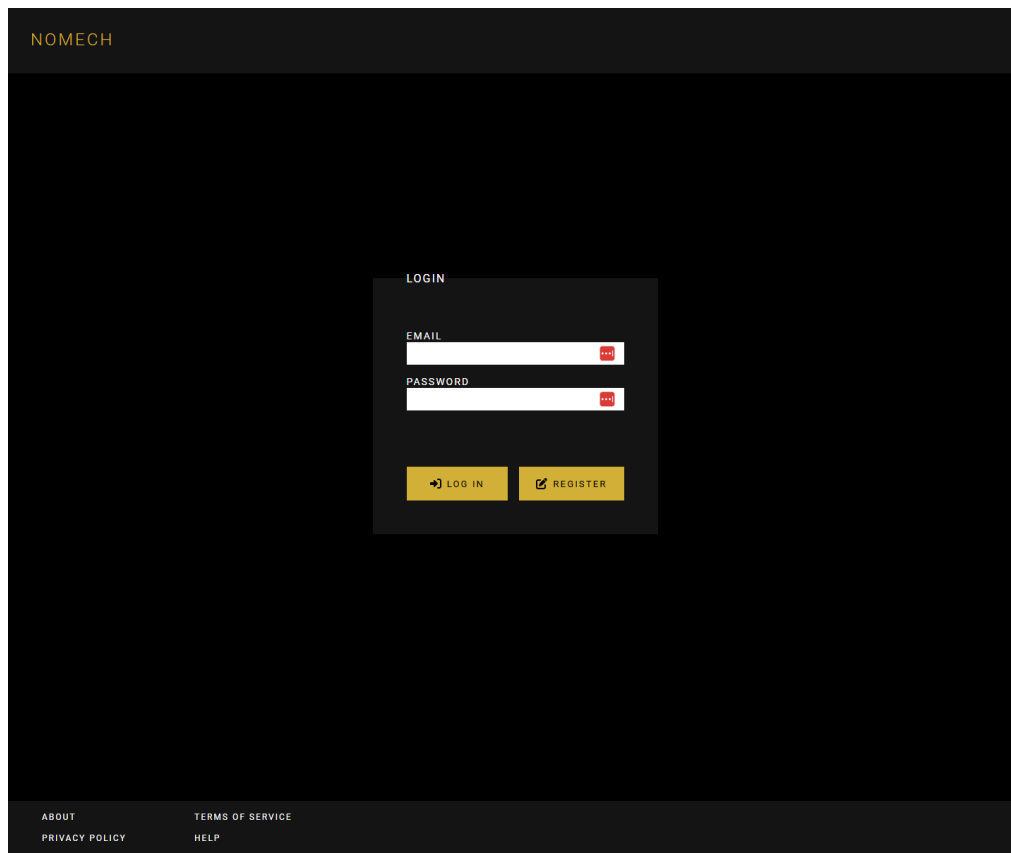
I Utilized console.log statements a lot during development to track the flow of data and logic decisions.

Colleagues and friends were invited to use the site and report any issues or inconsistencies.

### Bugs Encountered & Fixed:

One notable bug involved the profile update form. If the user edited their profile without re-entering a password, the password field would be cleared, effectively locking the user out. I resolved this by adding a check that only updates the password if both the “password” and “confirm password” fields are not empty and match.

### Final product



REGISTER

FIRST NAME

LAST NAME

EMAIL

ADDRESS

PASSWORD

CONFIRM PASSWORD

REGISTER

Already have an account? Sign in [here](#)

ABOUT

PRIVACY POLICY

CAREERS

TERMS OF SERVICE

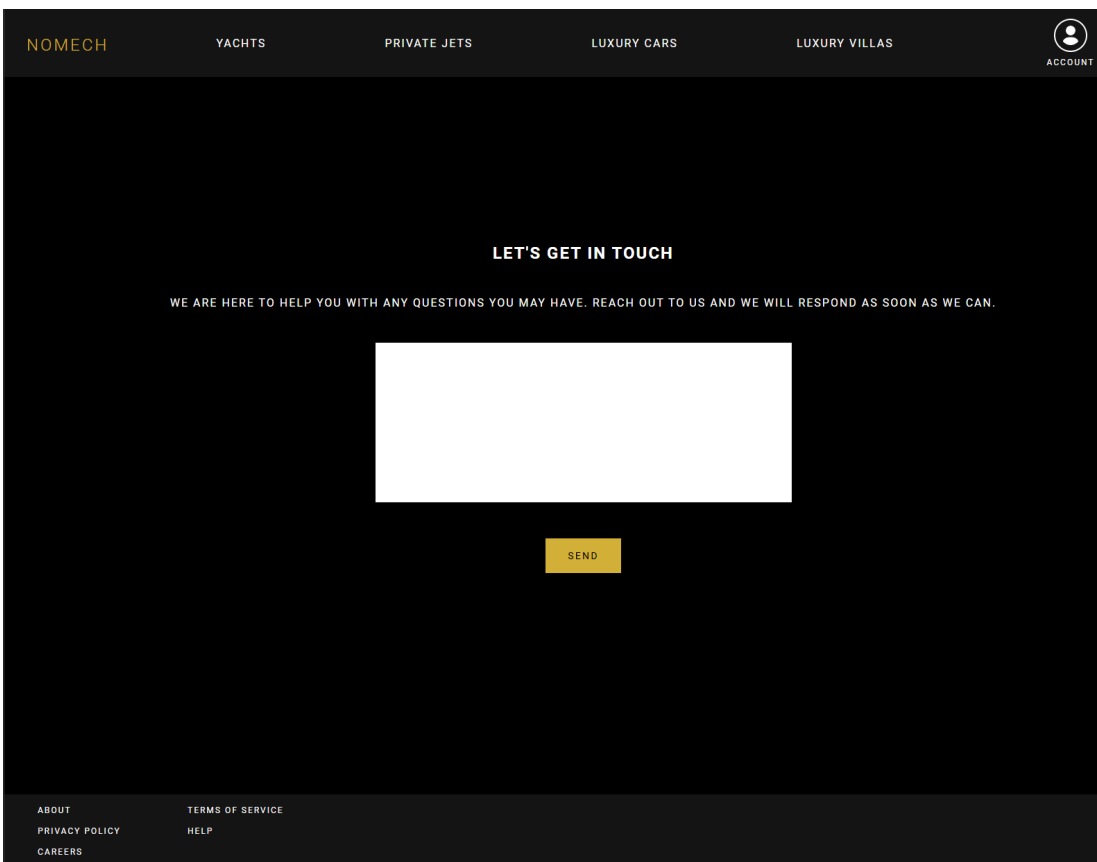
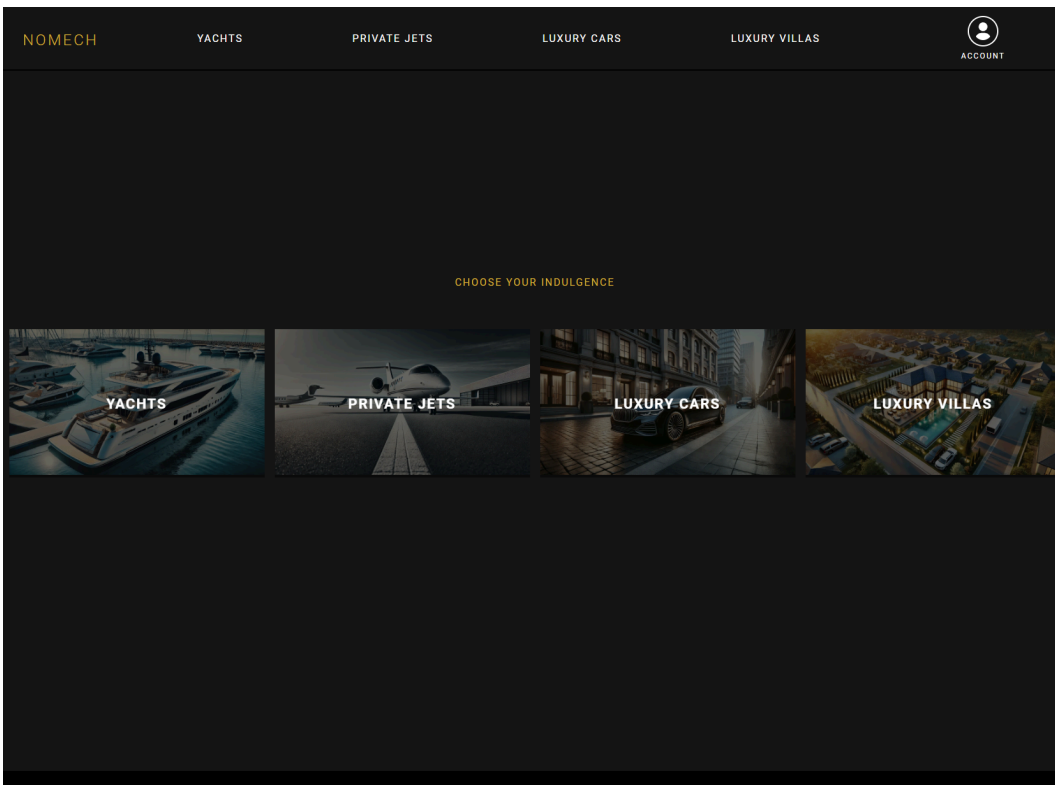
HELP



WELCOME, CHRISTOFFER

INDULGE IN EXCELLENCE, REDEFINED

EXPLORE



HOME

SORT BY:

NAME



QUEEN OF THE SEA

\$2,500,000.00

VIEW



VOYAGER 2

\$2,000,000.00

VIEW



OCEAN DREAM

\$3,000,000.00

VIEW



AZURE HORIZON

\$4,500,000.00

VIEW



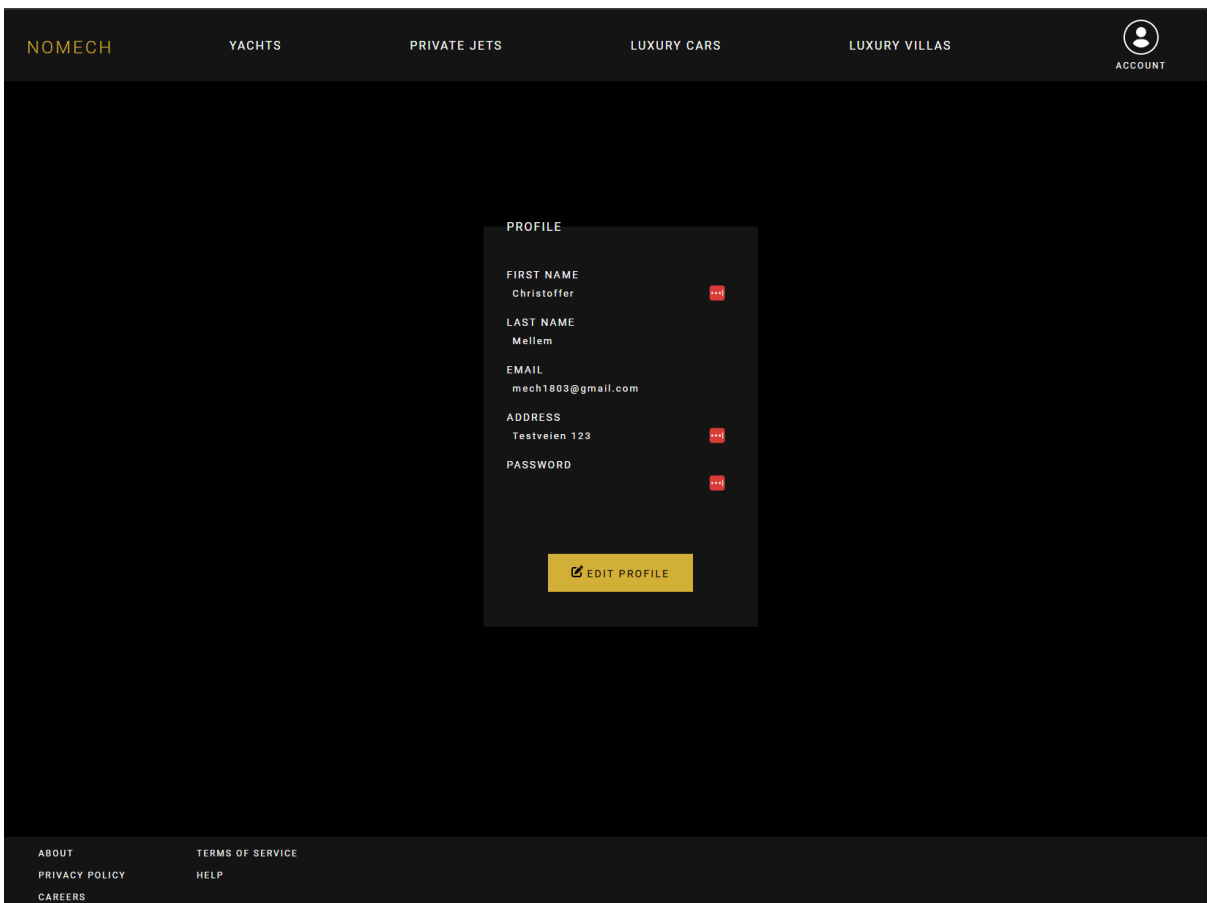
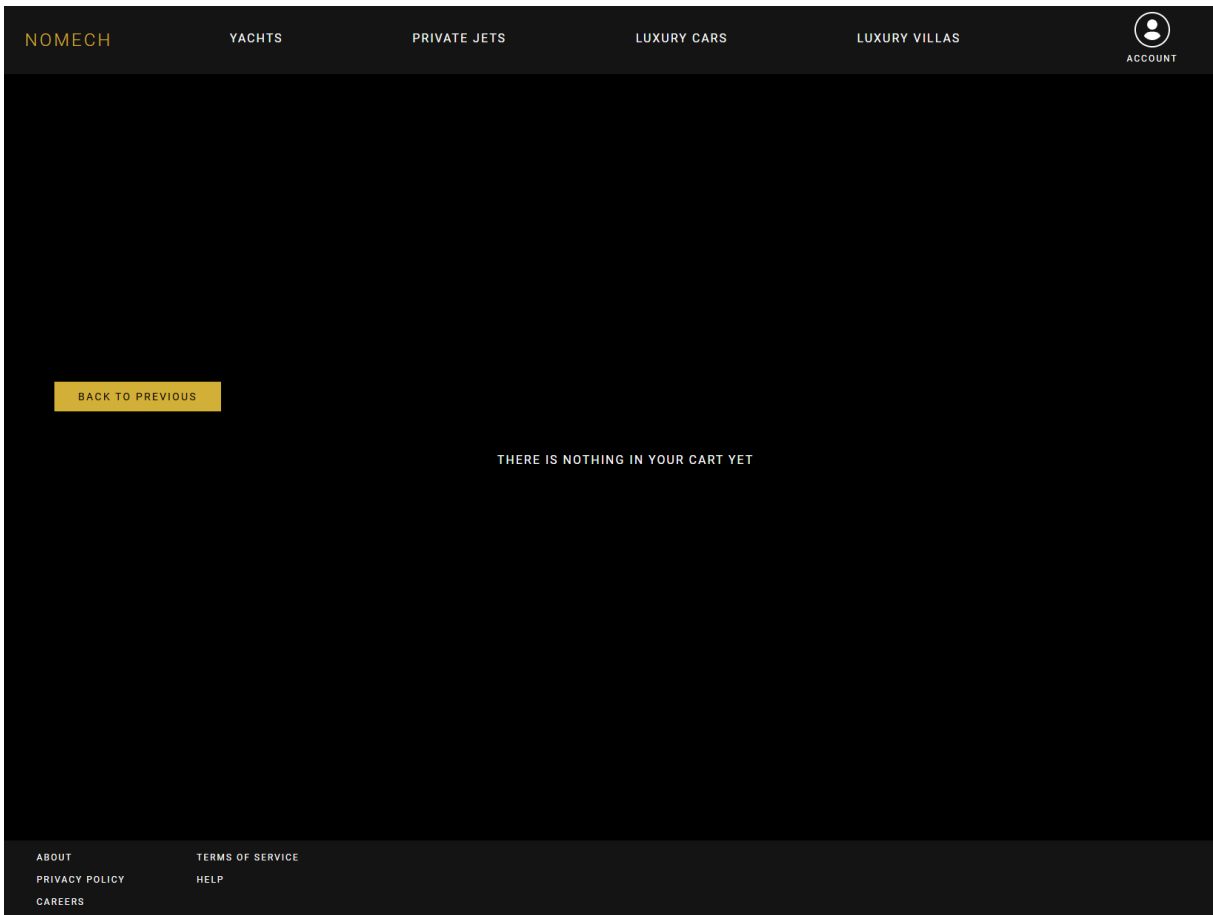
NAUTICAL PEARL

\$5,000,000.00

VIEW










NOMECH

YACHTS

PRIVATE JETS

LUXURY CARS

LUXURY VILLAS

ACCOUNT

PROFILE

FIRST NAME

Christoffer

LAST NAME

Mellem

EMAIL

mech1803@gmail.com

ADDRESS

Testveien 123

PASSWORD

CONFIRM PASSWORD

SAVE

ABOUT

TERMS OF SERVICE

PRIVACY POLICY

HELP

CAREERS

## Reflection

During the project, I learned the value of carefully structured data. By making sure that each product had a clear, consistent structure and unique identifiers, I simplified both the logic for product retrieval and the maintainability of the code. This has made my work more scalable and maintainable.

I also recognize the importance of a well-planned project. While at first the features seemed straightforward, I realized that complexity arises in handling edge cases, maintaining data integrity, and ensuring that all dependencies work together. What may seem trivial can, in practice, lead to unforeseen challenges if not thoroughly thought through in advance.

“Slow is smooth and smooth is fast”. I tend to rush development tasks, aiming to reach my targets as quickly as possible. However, I learned that when I slow down, plan carefully, and address potential issues before they arise, the overall process becomes smoother.

