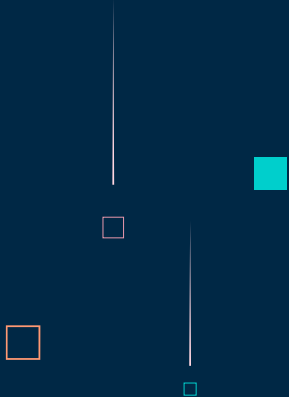
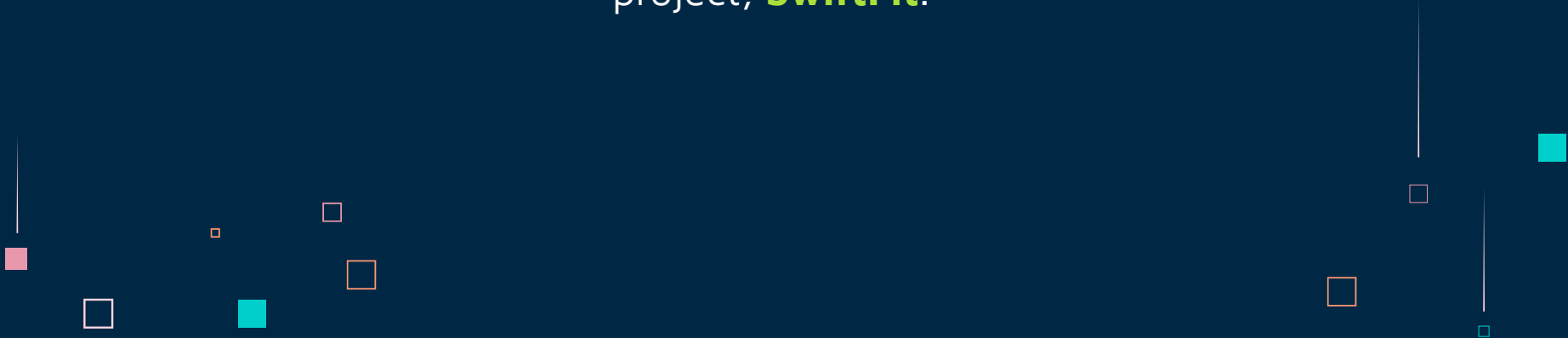




SIMPLIFYING YOUR FITNESS JOURNEY

Introduction

Hello everyone, we are **MOHAMED LAAMYRY** and **ABDESSLAM MEKOUAR**, and together, we're thrilled to present our graduation project, **SwiftFit**.



Description

SwiftFit is a web application designed to provide users with a seamless experience for purchasing fitness equipment, apparel and nutrition online. With the rise of health consciousness and the increasing popularity of home workouts, we recognized the need for a platform that offers a wide range of high-quality fitness products delivered right to your doorstep.

Team Members

Mohamed Laamyry

Front-end Developer

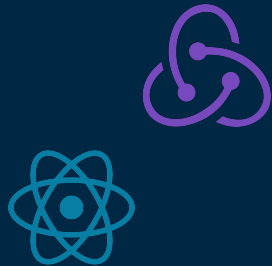


Abdesslam Mekouar

Front-end Developer



Our team consists of **Mohamed Laamyry** and **Abdesslam Mekouar**. Throughout our journey, we've collaborated closely to bring SwiftFit to life, leveraging our skills in HTML, Tailwind Css, and React.js to create an intuitive and visually appealing user interface.



Architecture and Technologies

For the **frontend** development of SwiftFit, we leveraged **React.js**, a powerful JavaScript library for building interactive user interfaces. To manage the application's state and facilitate seamless data flow, we integrated **Redux**, enabling efficient state management across components. Additionally, we combined **Native CSS** with **Tailwind CSS** to leverage the utility-first approach of Tailwind while incorporating custom styling using CSS for enhanced flexibility and control.



Developments

A SwiftFit development life cycle was full of obstacles which were very good lessons for us. One main issue to which we dealt was to connect Redux with our application architecture to be able to manage the shopping cart functionality. Through research, the experimentation and collaboration, we eventually have a worked cart.

```
export default function Products({ addToCart }) {
  return (
    <div>
      <div className="w-60 m-auto bg-[var(--primary-color)] rounded-br-3xl rounded-tl-3xl">
        <h3 className="text-3xl text-center self-center uppercase font-bold text-[var(--second-color)] overflow-hidden py-3 mt-10 mb-5">
          Hot Sales
        </h3>
      </div>
      <div className="flex flex-row flex-wrap justify-center gap-4">
        {productsData.hotSales.map((product, index) => (
          <div key={index} className="">
            <div
              className="container-item w-60 p-2 border border-gray-300 rounded-3xl relative cursor-pointer"
              onClick={() => handleProductClick(product)}
            >
              <img
                src={product.image}
                alt=""
                className="rounded-2xl w-full h-60 object-contain bg-white p-3"
              />
              <h1 className="mt-2 text-lg font-sembold">
                {product.name}
              </h1>
              <h3 className="mt-1 text-base font-normal">
                {product.category}
              </h3>
              <h2 className="text-xl hover:text-[var(--second-color)] transition duration-300">
                ${product.price}
              </h2>
              <button
                className="absolute top-72 -right-9 p-0 hover:scale-125 transition ease-in-out duration-300"
                onClick={(e) => {
                  e.stopPropagation();
                  handleAddToCart(product);
                }}
              >
                <FontAwesomeIcon
                  className="py-0"
                  icon={faCartShopping}
                />
              </button>
            </div>
          </div>
        ))}
      </div>
    </div>
  );
}
```

Successes

- The application scalability and maintaining were increased using **Redux** for state management.
- Incorporated **Tailwind CSS** with **native CSS**, making for smooth development and uniform styling of components.

Lessons Learned

- The ability of the effective communication between the group and teamwork is key to team unity and productivity. Frequent consultation and assigning tasks clearly will greatly eliminate joggings and smoothen workflow.
- We discovered that effective **time management** is crucial for success.

Challenges

Integration Complexity: One of the initial barriers with Redux and Tailwind CSS was the learning curve and complicated steps needed initially.

Time Constraints: Conflicting project needs and the existing time constraints sometimes caused implementation of features and testing to fall behind the schedule.

Areas for Improvement

We know that the **risk** of using local JSON files includes scalability limitations, **performance issues**, data inconsistency, and potential **security vulnerabilities**.

We aim to mitigate these risks by implementing **secure data** fetching methods, ensuring scalability, optimizing performance, maintaining data consistency, and enhancing security measures.

Next Steps

Checkout Page & Login Page: Develop checkout and login pages for enhanced user experience.

Backend Setup: Start backend development for data management and security.

Testing & Optimization: Ensure functionality, performance, and scalability through testing.

Feedback & Iteration: Gather feedback and iterate based on user input.

Documentation & Deployment: Document and deploy the application for public access.

Conclusion

In conclusion, **SwiftFit** embodies our passion for frontend development and our commitment to delivering exceptional digital experiences. We're immensely proud of the progress we've made with SwiftFit, and we're grateful for the opportunity to share our journey with you today. Thank you for your attention, and we welcome any feedback or questions you may have.



Thank you

