E-COMMERCE PLATFORM

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INTRODUCTION

- E-Commerce is the Simple shopping solution. Its a fully-featured website and shopping cart system that bends over backwards to give you the flexibility you need to run your online store. The basic concept of the application is allow the customer to shop virtually using the internet and allow customers to buy the new items and articles of their desire from the store.
- Shopping is one of the essential part of our daily life We are using different types of shops to buy different kinds of products in our everyday life.

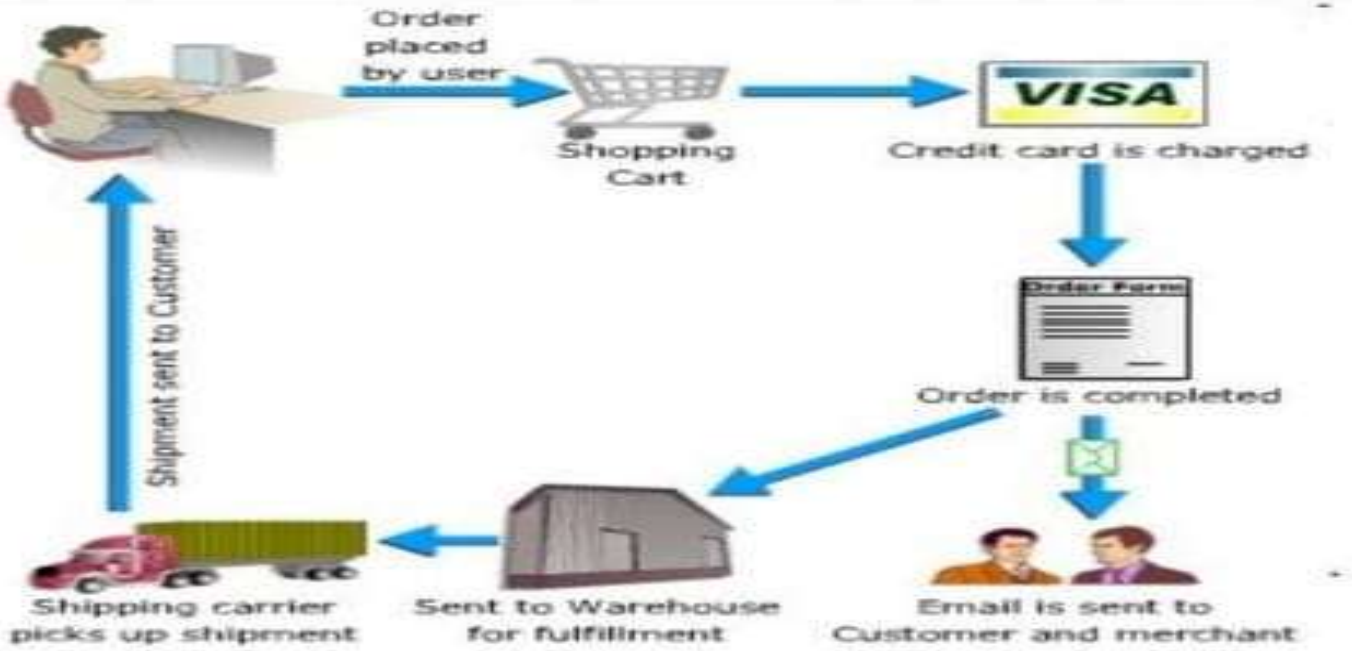
PROJECT OVERVIEW

Description: The following project is an innovative e-commerce website that will offer a personalized shopping experience with the aim of promoting sustainable and ethical products.

Objectives:

- Provide personalized product recommendations by using machine learning.
- Promote sustainability by highlighting eco-friendly products.
- Ensure supply chain transparency to build consumer trust.
- Foster community engagement through user reviews and forums.

THE PROCESS OF E-COMMERCE



Purpose:

Our goal is to make this website the best body building cyber store to sell high-quality products directly to the public at amazing prices! Bringing Supplements from around the world to you. Discover Ensurtion.co.in website stats,rating,details and status online.

To create a personalized and sustainable platform that promotes eco-friendly consumer practices through tailored product recommendations and increased awareness of sustainability.

GOALS:

The main goals of this project are User friendly navigations to provide ease.
Maximize the search options :
1.by category's name
2.by products title.
Help user by providing specification of products.
Full Security System.
Sell and Buy online any product at home.

Changes Since Midterm:

Enhancements:

•Added JWT-based user authentication for secure login.

•Optimized product filtering for better search performance.

New Features:

•Admins can now add, edit, and delete products directly.

•The platform's backend now supports faster data retrieval using indexed queries

Final Implementation:

Backend:

•Built with Node.js and Express.js to handle API requests efficiently.

•MongoDB is used for data storage, ensuring scalability and flexibility.

Frontend:

•Developed using React.js for an intuitive and responsive interface.

•Integrated Material-UI for consistent design elements.

Key Functionalities:

•Secure user registration and login.

•Product browsing, filtering, and detailed views.

•Cart management and a streamlined checkout process.

Future Scope:

- Wishlist management and price alerts.
- Enhanced analytics for admin users.

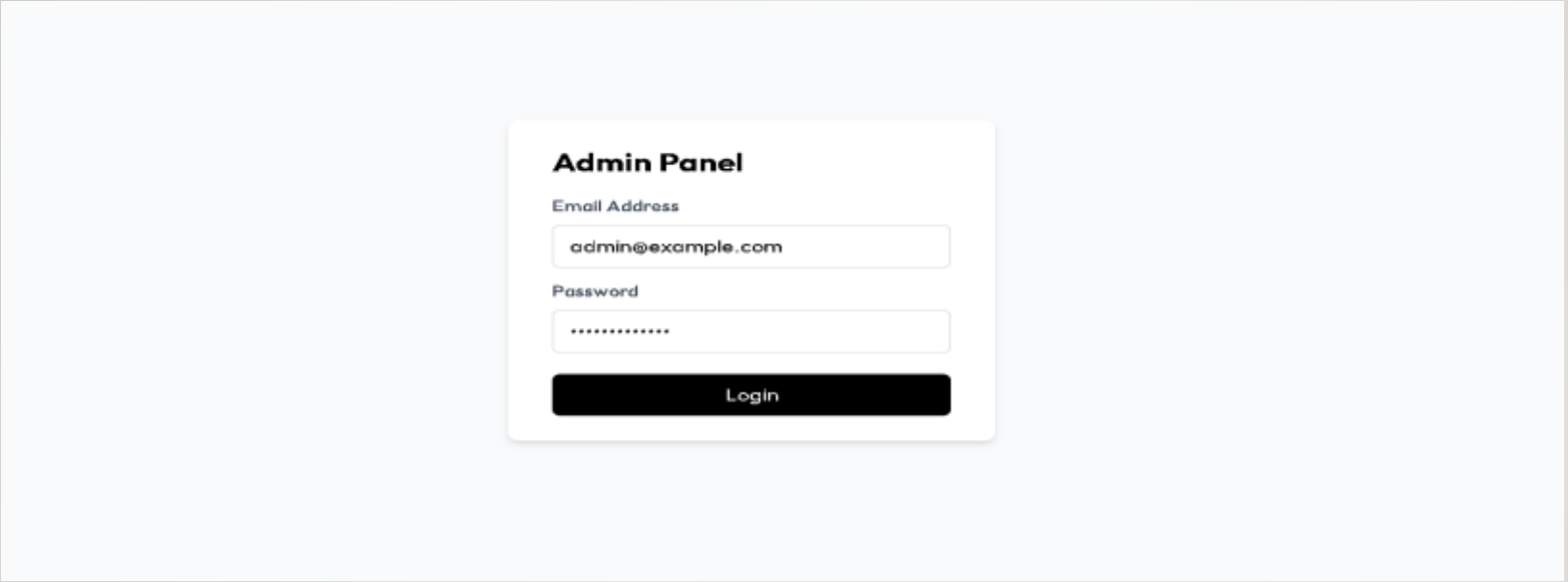
Scalability:

- Support for multiple payment gateways.
- Integration with third-party APIs for shipping and logistics.

Demonstration:

User Flow:
•Registration → Search Products → Add to Cart → Checkout.
Admin Flow:
•Login → Add/Edit/Delete Products → Monitor Orders.

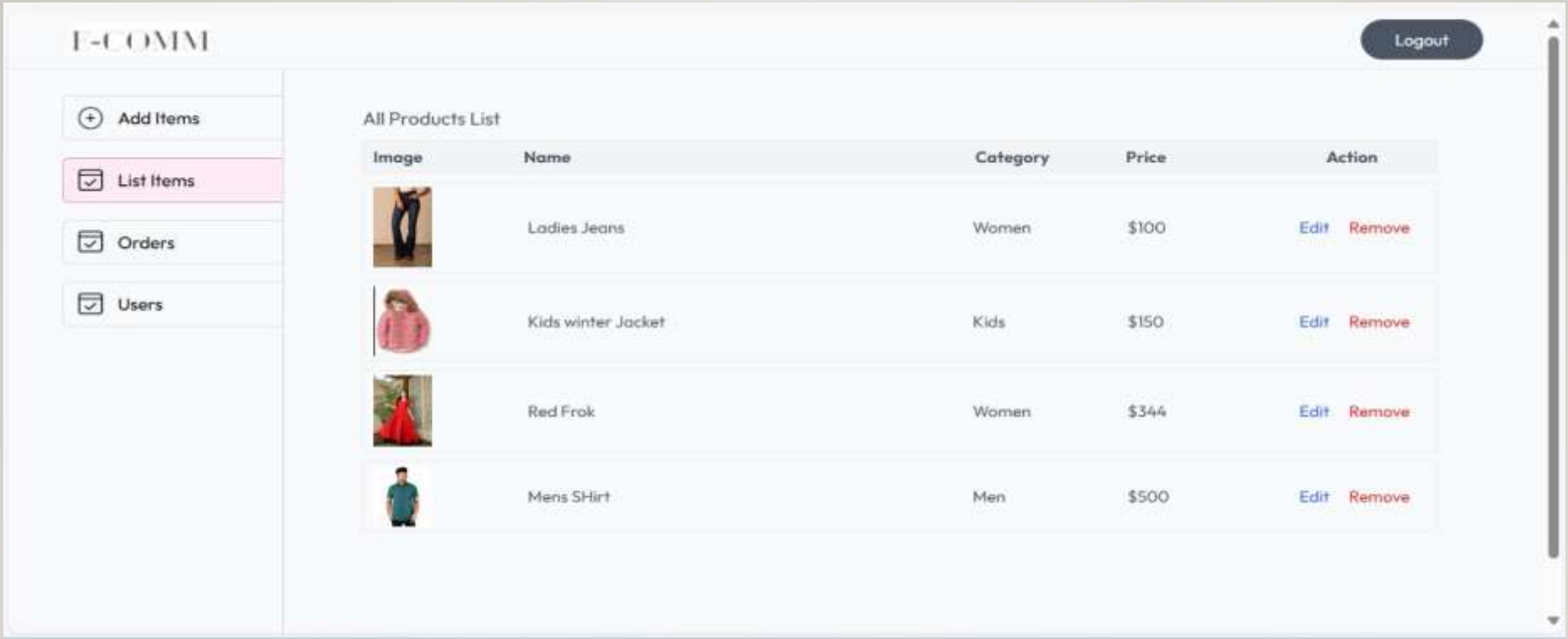
Admin Panel Login:



•The **Admin Panel Login** page provides access to administrative functions of the e-commerce platform

•It includes:
•**Email Address Field**: For admins to input their registered email.
•**Password Field**: For secure access using encrypted credentials.
•**Login Button**: Validates credentials and redirects admins to the dashboard.

Product Collection Page:



Product Collection Page serves as the main shopping interface where users can explore and browse through various products available on the platform.

E-COMM

HOME COLLECTION ABOUT CONTACT

Search

FILTERS

CATEGORIES

- Men
- Women
- kids

TYPE

- Topwear
- Bottomwear
- Winterwear

ALL COLLECTIONS

Sort by: Relavent

Ladies Jeans

$100

Kids winter Jacket

$150

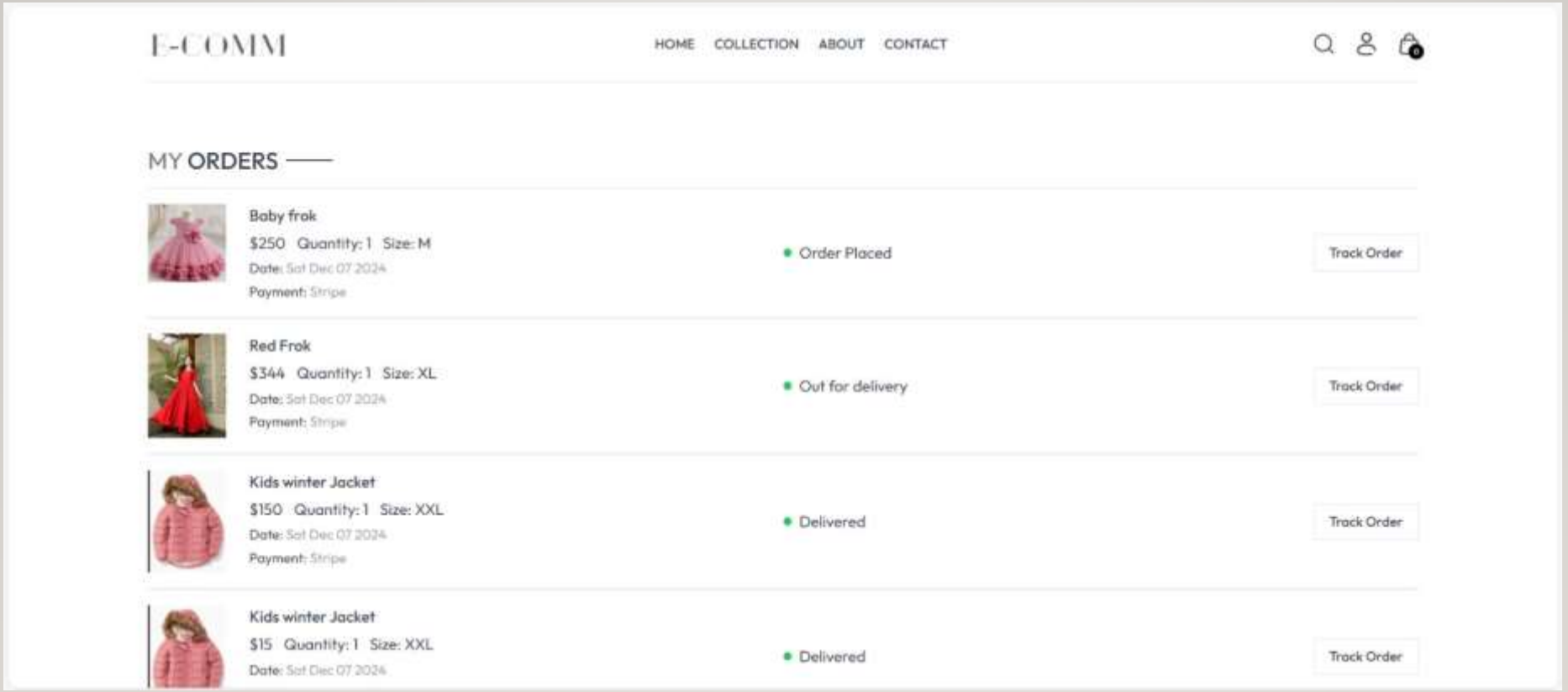
Red Frok

$344

Mens SHirt

$500

My Orders Page:



Conclusion:

What We Learned:

•Improved technical skills in Node.js, MongoDB, and React.js.

•Gained experience in collaborative development and testing.

Acknowledgments:

•Thank you professor Erick for your guidance.

thank you