

BRACT's
Vishwakarma Institute of Information Technology,
Kondhwa(BK), Pune-48



Department of Computer Engineering
Engineering Economics and FinTech
SCE

**E-Commerce Website And Integration
with Payment Gateway**

Sr. No.	Name of Student	Roll No	Prn No
1	Shruti Kamble	322075	22220169
2	Punam Navale	323048	22110886
3	Janai Kasle	323075	22220252

Under the guidance of :
Prof. Disha Wankhede

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INTRODUCTION:

E-commerce, short for electronic commerce, refers to the buying and selling of goods or services over the internet. It encompasses a wide range of transactions, from online retail stores and digital marketplaces to business-to-business exchanges. E-commerce has revolutionized the way businesses operate and consumers shop, offering convenience, accessibility, and a global reach.

With the rise of secure payment gateways like Stripe and PayPal, e-commerce transactions have become more streamlined and secure. These payment platforms facilitate seamless online transactions, allowing customers to pay for products or services using various payment methods such as credit cards, debit cards, and digital wallets. The integration of Stripe and PayPal into e-commerce websites ensures that sensitive payment information is securely handled, reducing the risk of fraud or data breaches.

Additionally, the proliferation of mobile shopping apps and personalized recommendations further enhances the e-commerce experience, making it more convenient and tailored to individual preferences. As a result, e-commerce continues to reshape the modern economy, driving growth and innovation in online retail and digital commerce.

OBJECTIVES :

1. **Accepting Payments:** Enable seamless transactions with credit cards, debit cards, and digital wallets for customer convenience.
2. **Enhanced User Experience:** Ensure a frictionless checkout process, enhancing customer satisfaction and encouraging repeat purchases.
3. **Security:** Utilize Stripe and PayPal's robust security measures to protect sensitive payment data and prevent fraud.
4. **Global Reach:** Reach a wider audience by offering various payment options, catering to diverse customer preferences and geographical locations.
5. **Reduced Cart Abandonment:** Minimize abandoned carts by providing trusted payment methods like Stripe and PayPal, improving conversion rates.
6. **Flexibility and Scalability:** Gain flexibility in managing transactions and scale the business efficiently, adapting to evolving customer needs and preferences.

TECHNOLOGY STACK

MERN Stack:

1. MongoDB: NoSQL DB for flexible, scalable data handling.
2. Express.js: Minimalist framework for building APIs in Node.js.
3. React: Library for efficient, component-based UI development.
4. Node.js: Server-side JS runtime for scalable web apps.

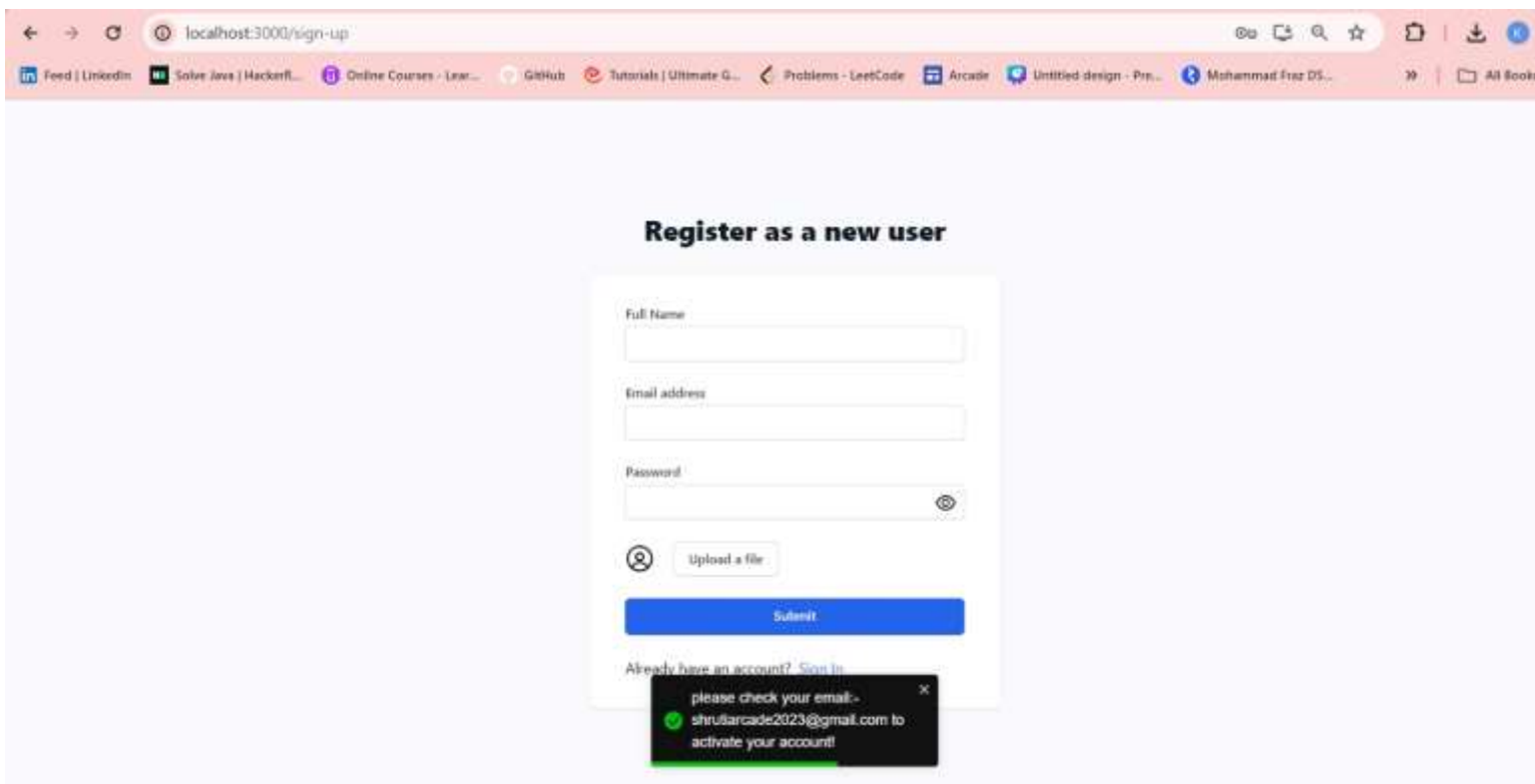
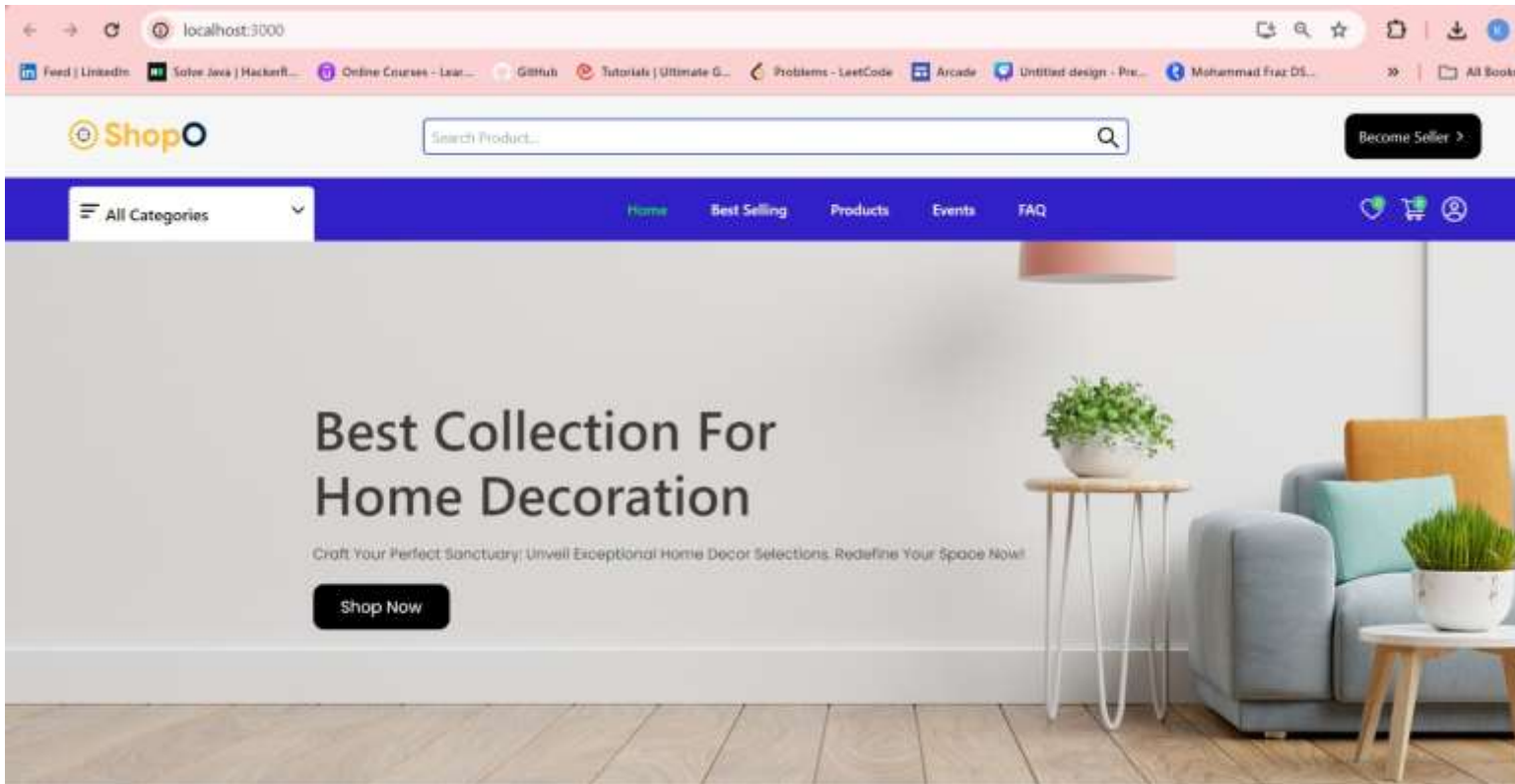
Tailwind CSS:

1. Utility-first CSS: Pre-designed utility classes for rapid UI development.
2. Flexibility: Enables unique designs without custom CSS.
3. Faster Development: Prototyping and iteration with utility classes.
Features: Responsive design, dark mode, theming support.

Socket.io

1. Real-time Communication: Bidirectional, instant data exchange between clients and servers.
2. WebSocket Technology: Establishes persistent connections for real-time events.
3. Simplified API: Abstracts complexity of WebSocket handling.
4. Use Cases: Live chat, collaboration, live updates in web apps.
5. Versatility: Supports various platforms like web browsers, Node.js servers, and mobile apps.

SCREENSHOTS OF PROPOSED SYSTEM





iQOO Z7 Pro 5G (Blue Lagoon, 8GB RAM, 256GB Storage) | 3D Curved AMOLED Display | 4nm MediaTek Dimensity 7200 5G Processor | 64MP Aura Light OIS Camera | Segment's Slimmest & Lightest Smartphone

Dimensity 7200 5g processor based on the latest 4nm energy-efficient process 3D Curved Super-vision Display with 17.22 cm (6.78 inches) screen size, 93.3% Screen-to-body ratio, 120 Hz AMOLED FHD+, 1.07 Billion Colors, 1300 nits Peak Local Brightness Slimmest phone with 0.736 cm (7.36mm) thickness, Premium AG Matte Glass finish 64 MP AURA Light OIS Camera, 4K video recording, Hybrid Image Stabilization, Super Night Mode, Aura Light Portrait, Camera Panning Portrait

24999\$ ~~27999\$~~



Add to cart



iQOO Z7 Pro 5G (Blue Lagoon, 8GB RAM, 256GB Storage) | 3D Curved AMOLED Display | 4nm MediaTek Dimensity 7200 5G Processor | 64MP Aura Light OIS Camera | Segment's Slimmest & Lightest Smartphone

Dimensity 7200 5g processor based on the latest 4nm energy-efficient process 3D Curved Super-vision Display with 17.22 cm (6.78 inches) screen size, 93.3% Screen-to-body ratio, 120 Hz AMOLED FHD+, 1.07 Billion Colors, 1300 nits Peak Local Brightness Slimmest phone with 0.736 cm (7.36mm) thickness, Premium AG Matte Glass finish 64 MP AURA Light OIS Camera, 4K video recording, Hybrid Image Stabilization, Super Night Mode, Aura Light Portrait, Camera Panning Portrait

24999\$ ~~27999\$~~



Add to cart



localhost:3000/product/662909257806a19350980ab6

ShopO

Search Product...

All Categories

Home Best Selling Products Events FAQ

iQOO Z7 Pro 5G (Blue Lagoon, 8GB RAM, 256GB Storage) | 3D Curved AMOLED Display | 4nm MediaTek Dimensity 7200 5G Processor | 64MP Aura Light OIS Camera | Slimmest & Lightest Smartphone

Dimensity 7200 5G processor based on the latest 4nm energy-efficient architecture. Super-vision Display with 17.22 cm (6.78 inches) screen size, AMOLED FHD+, 1.07 Billion Colors, 1300 nits Peak Local Brightness, Premium AG Matte Glass finish (4 mm thickness), Hybrid Image Stabilization, Super Night Mode, AI Portrait.

249995 ~~279995~~

1

Add to cart

1 items

iQOO Z7 Pro 5G (Blue Lagoon, 8GB RAM, 256GB Storage) | 3D Curved AMOLED Display | 4nm MediaTek Dimensity 7200 5G Processor | 64MP Aura Light OIS Camera | Segment's Slimmest & Lightest Smartphone

US\$24999

Checkout Now (USD\$24999)

localhost:3000/shop/66277adf4cc55467679a1b01

Shop Products Running Events Shop Reviews

Go Dashboard

MAYBELLINE

Maybelline

Address
Lane 12, Sai nagar, kondhwa budruk.

Phone Number
9307841213

Total Products
3

Shop Ratings
0/5

Joined On
2024-04-23

Edit Shop

Maybelline New York Matte Lipstick, Intense...

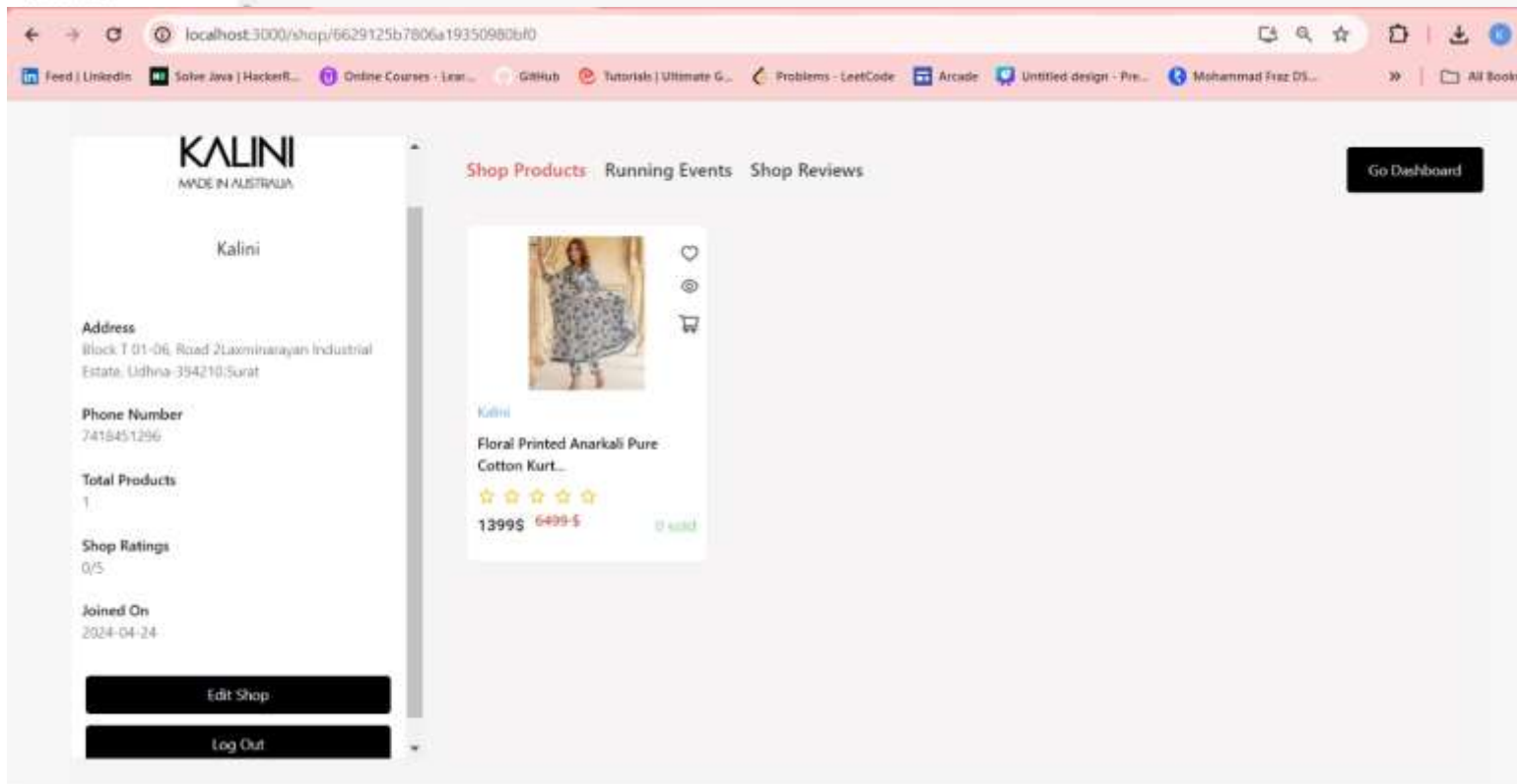
230\$ ~~329\$~~ 0 sold

Maybelline New York Color Sensational Lipstick, Intense...

455\$ ~~599\$~~ 0 sold

Maybelline New York Eyeliner & Kajal, Bold &...

464\$ ~~474\$~~ 0 sold



ShopO

Search Product...

Go Dashboard >

All Categories

HomeBest SellingProductsEventsFAQ

1.Shipping

2.Payment

3.Success

Shipping Address

Full Name

Sumedhi

Email Address

shrutiarcade2023@gmail.com

Phone Number

7412589632

Zip Code

411048

Country

India

City

Maharashtra

Address1

Sai nagar

Address2

Choose From saved address.

subtotal:

\$24999

shipping:

\$2499.90

Discount:

-

\$27498.90

Coupon code

Apply code

Go to Payment

ShopO

Search Product...

Go Dashboard >

All Categories

HomeBest SellingProductsEventsFAQ

1.Shipping

2.Payment

3.Success

☒ Pay with Debit/credit card

Name On Card

Sumedhi

Exp Date

MM / YY

Card Number

1234 1234 1234 1234

CW

CVC

Submit

☐ Pay with Paypal

☐ Cash on Delivery

subtotal:

\$24999

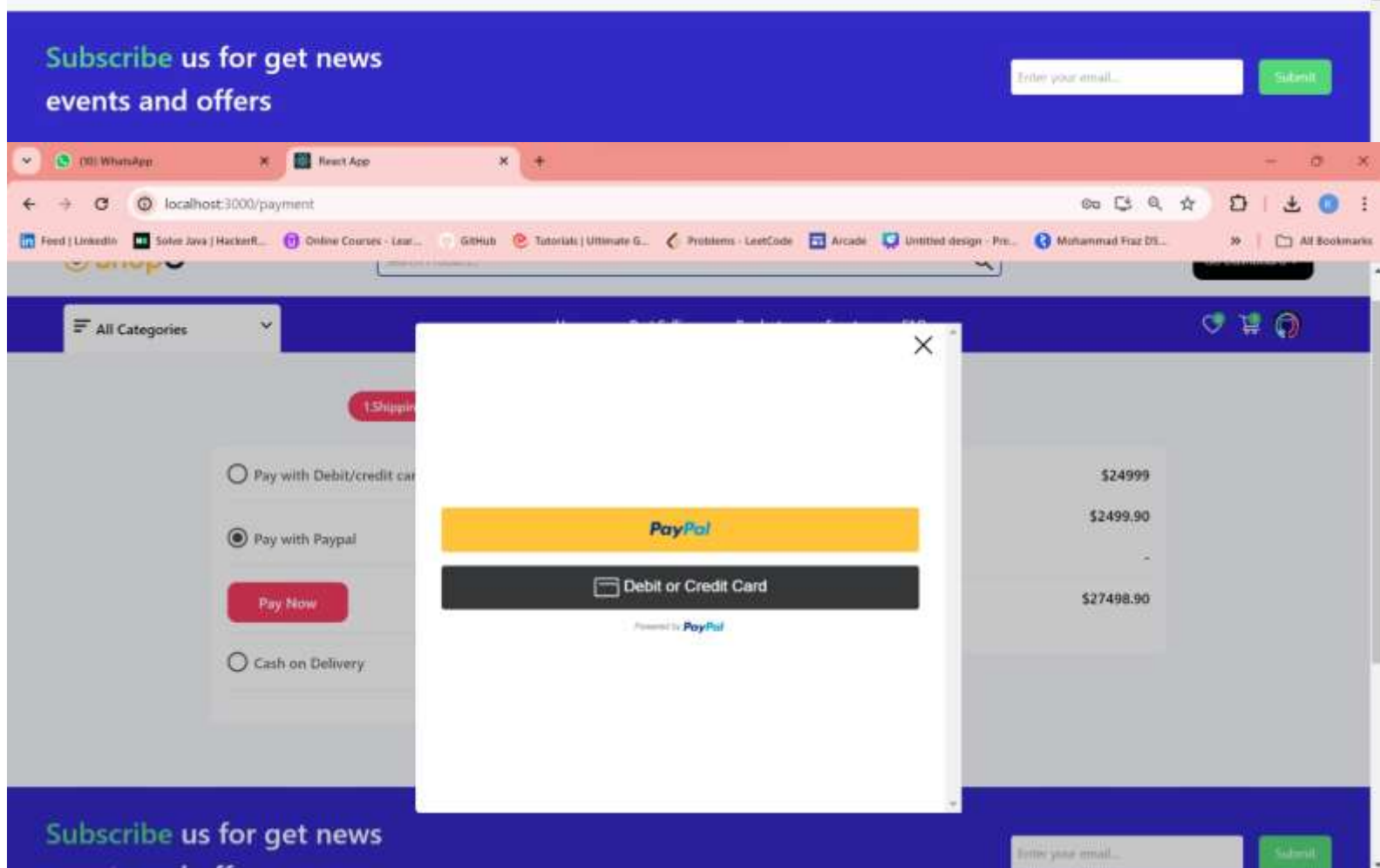
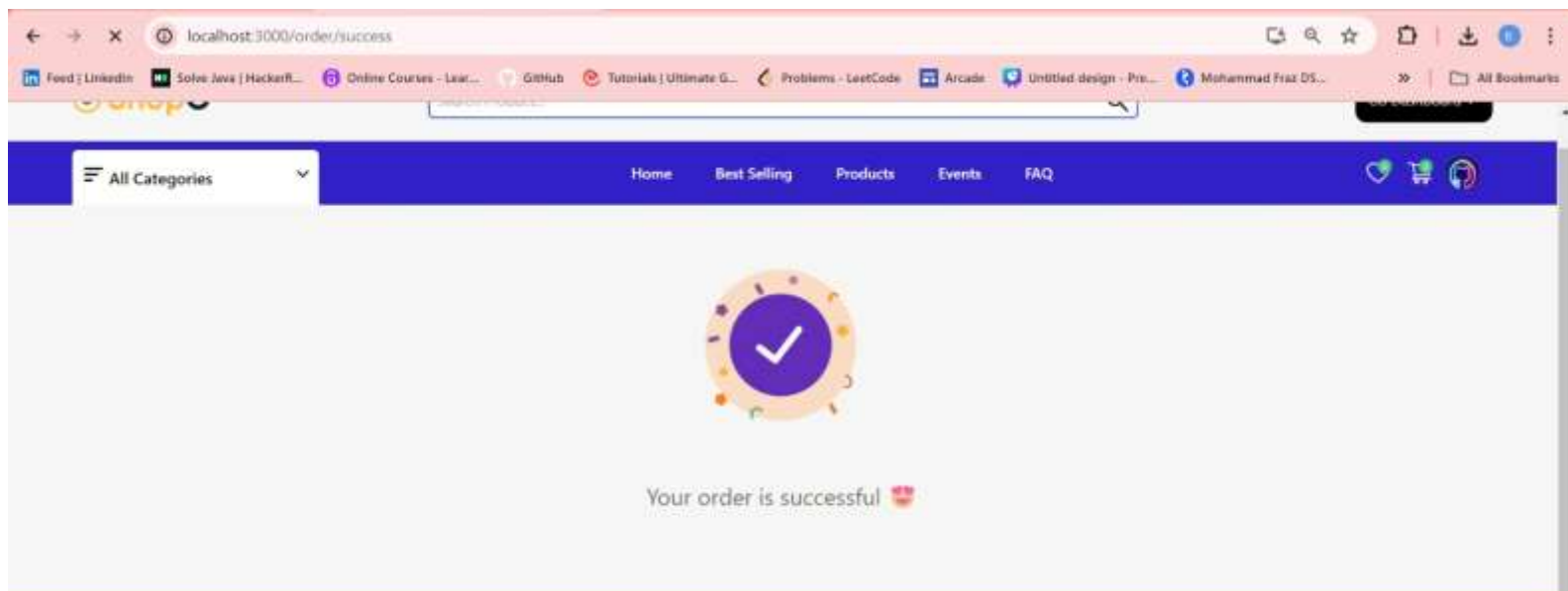
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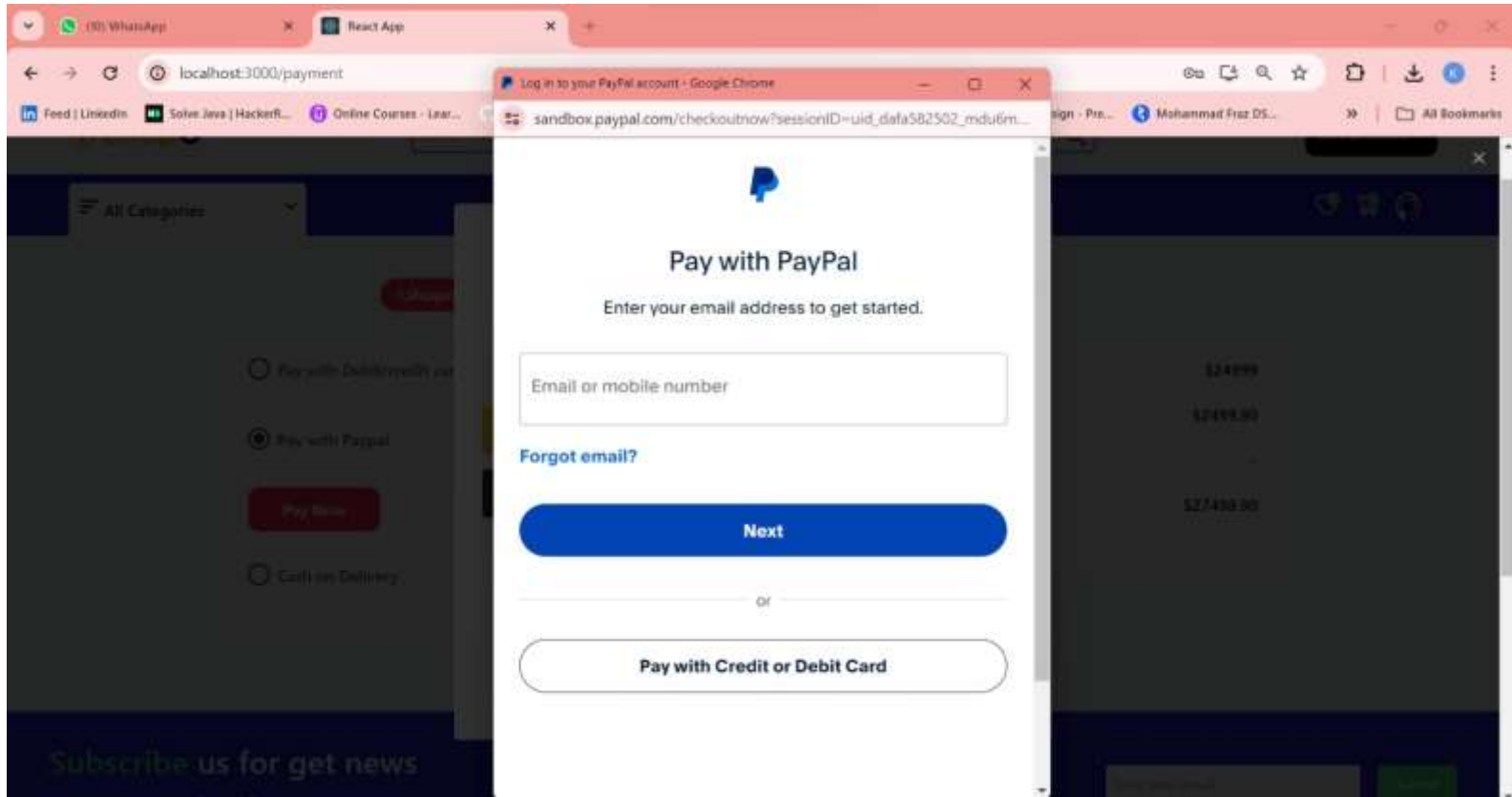
\$2499.90

Discount:

-

\$27498.90





FUTURE SCOPE

1. Enhanced Security:

- Implement biometric authentication, tokenization, and AI-driven fraud detection.
- Protect sensitive payment information and prevent fraudulent transactions.

2. Faster Transactions:

- Utilize blockchain and instant payment technologies.
- Facilitate real-time transactions and reduce settlement times.

3. Global Expansion:

- Support diverse currencies, languages, and payment methods.
- Enable seamless cross-border transactions for international markets.

4. Omni-channel Payments:

- Support various payment methods across online, mobile, social media, and brick-and-mortar channels.
- Provide a unified payment experience for customers across different touchpoints.

5. Integration with Emerging Technologies:

- Integrate with IoT, voice assistants, AR, and VR.
- Enable innovative payment methods like voice-activated payments and AR-enabled checkout experiences.

6. Focus on User Experience:

- Design intuitive and frictionless payment flows.
- Personalize payment options to match individual user preferences.

7. Regulatory Compliance:

- Ensure compliance with data privacy and security regulations like PSD2.
- Maintain trust and credibility among users by adhering to global data protection standards.

CONCLUSION

In conclusion, our e-commerce website not only offers a seamless user experience and efficient navigation but also prioritizes the security and convenience of online transactions through trusted payment gateways like Stripe and PayPal. With a wide array of products tailored to diverse customer needs, we aim to redefine the online shopping experience by combining excellence in service with a commitment to innovation.

Embracing the latest advancements in payment technology and customer-centric design, we strive to provide unparalleled satisfaction to our valued clientele. Join us on this journey of convenience, reliability, and endless possibilities in the digital marketplace, where every transaction is secure, every purchase is seamless, and every customer is valued.

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