A DBMS Project on

E-Commerce Web-Application

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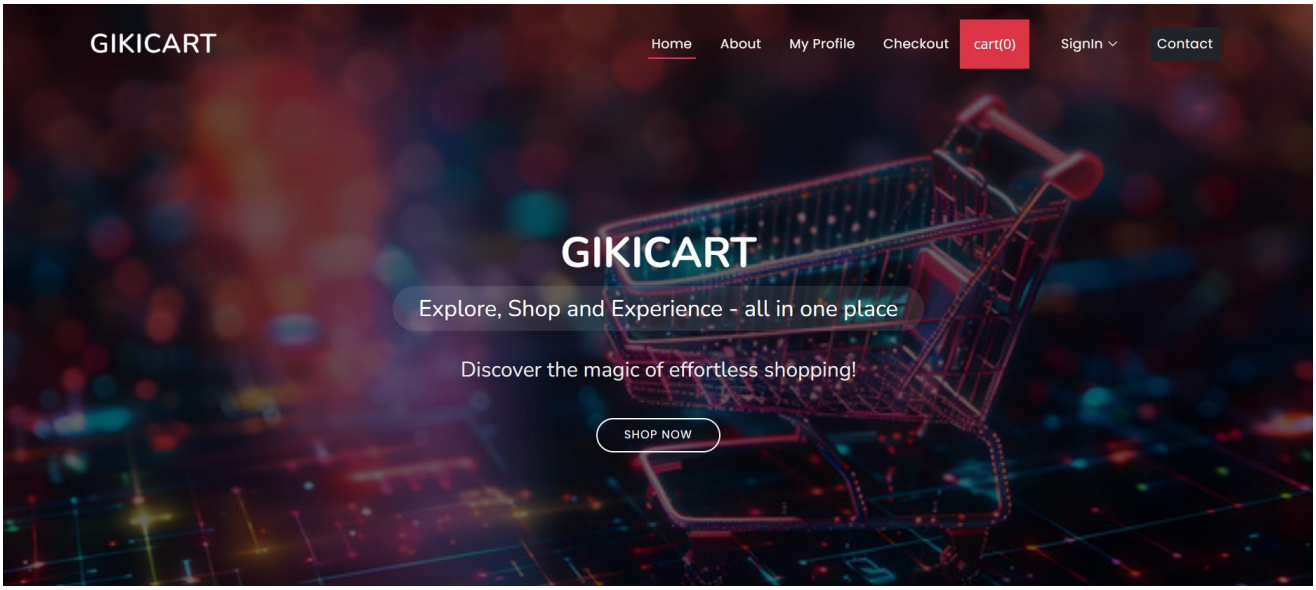


About

GIKICart- An Online E-Commerce Web-application, where innovation ensemble shopping. All in one place to Explore, Shop and Experience. Browse through the extensive collection of products ranging from electronics to fashion.

Features

The **GIKICart** web application allows users Explore, Shop and Experience, and the superuser to manage. The webpage includes the following tabs.

- **Home:** A UI for users to explore and shop
- **About:** A UI for 'About' the Website
- **My Profile:** A UI for user to check his profile
- **Checkout**: A UI where user confirms order
- **Cart**: A UI where user could see items in Cart
- **SignIn**: A UI for user to signup, login, or logout
- **Contact**: A UI for user to contact the admin
- **Admin**: A UI for Superuser to manage the database.

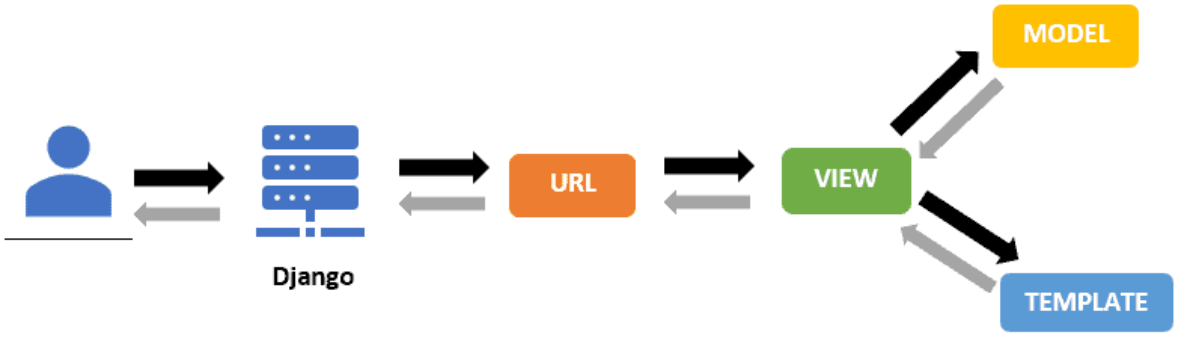
Frontend Mastery

For the GIKICart, we designed a captivating frontend. Leveraging **HTML,CSS, and JavaScript**, we sculpted a visually stunning interface. Building upon this foundation, we have integrated a **Bootstrap template**. With every click, we make the user explore and discover.

Backend Brilliance

Behind the scenes, our backend is powered by **Python Django**, the epitome of reliability and scalability. Django ensures smooth operations and effortless management. From processing transactions to managing inventory, Django lays flawless shopping experience. Django offers:

- Rapid Development
- Scalability
- Versatility
- Built-in Admin Interface



Tables in the Database

In the database schema for GIKICart, five primary tables govern the organization and categorization of products and users. Below each table is listed with it attributes.

Users Table

Username (primary key) , f_name, l_name, password, confirm_password, email (foreign key) ,staff_status

Contact Table

ContactId, email (primary key) , name, desc, phoneNo

Orders Table

Order_id (primary key) , email,name, item_id,a mount, paymentstatus, address1, address2, amountPaid

Products Table

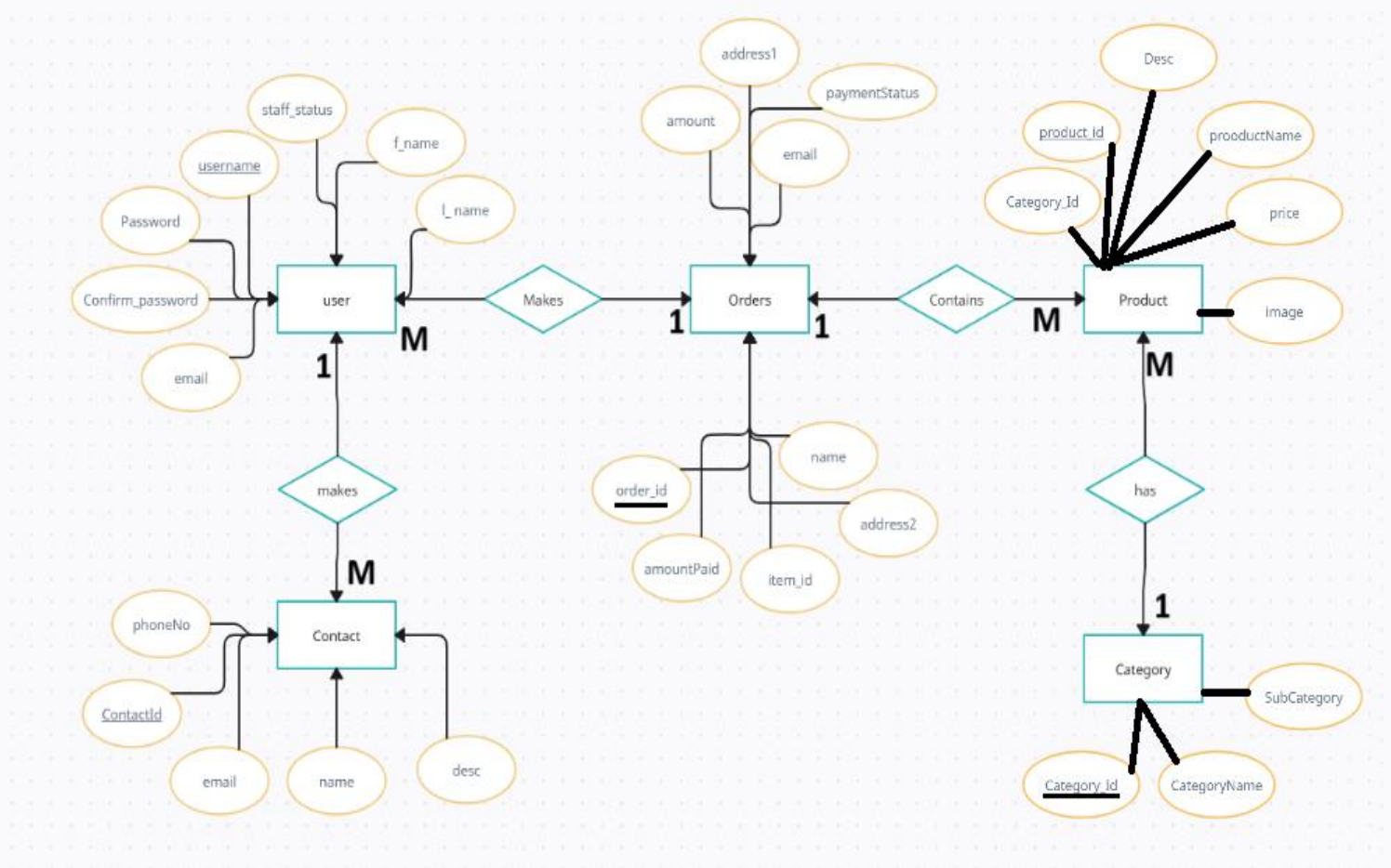
Category_id (foreign key) , product_id (primary key), desc, productName, price, image

Categories Table

category_id (primary key) , categoryName, subcategory

Entity-Relationship Diagram & Relational Schema

The ER Diagram visually represents the relationship between each table. illustrating how each user can explore, shop and experience on the GIKICart. The relationships facilitate efficient organization and navigation, enhancing the overall user experience on the e-commerce platform


address1
paymentStatus
amount
email
staff_status
f_name
username
l_name
Password
Confirm_password
email
user
Makes
Orders
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Product
Desc
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price
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1
M
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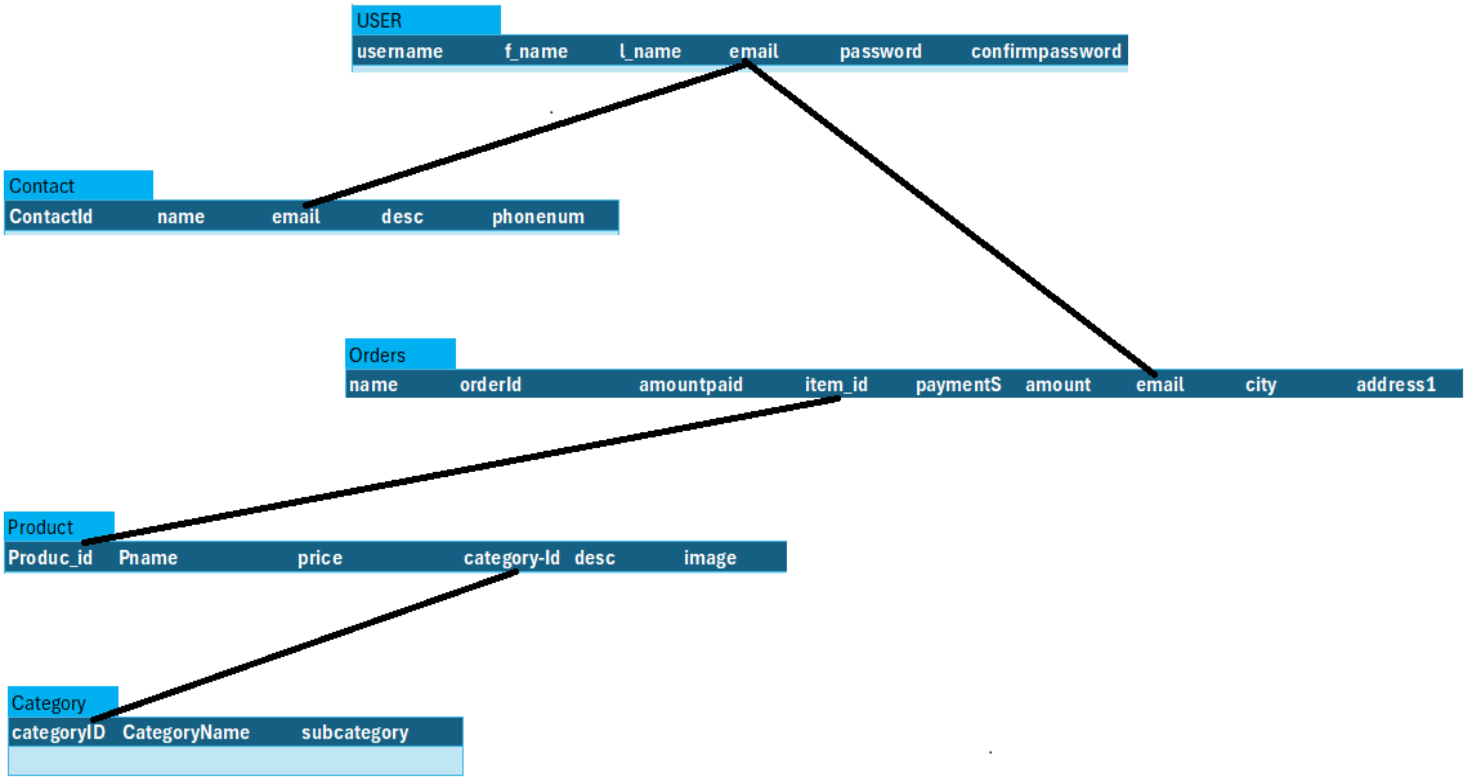
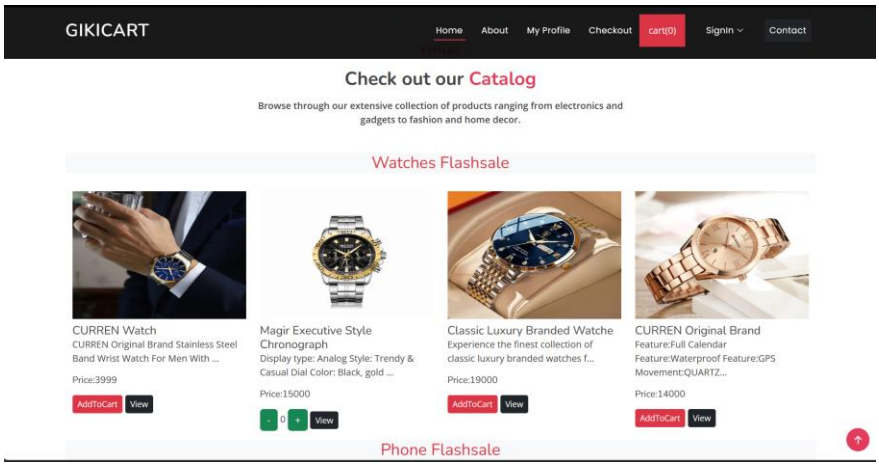
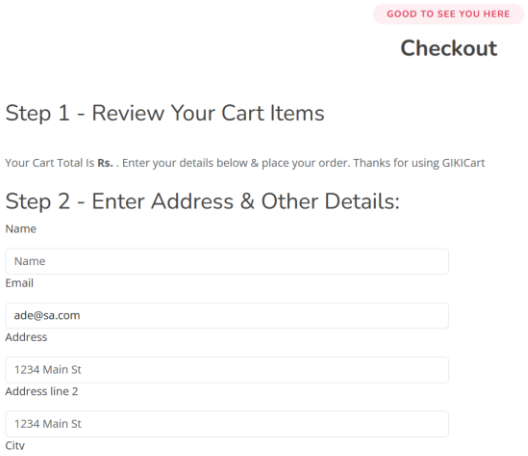

USER
username f_name l_name email password confirmpassword
Contact
ContactId name email desc phonenum
Orders
name orderId amountpaid item_id paymentS amount email city address1
Product
Produc_id Pname price category-Id desc image
Category
categoryID CategoryName subcategory

User Interface for Customers

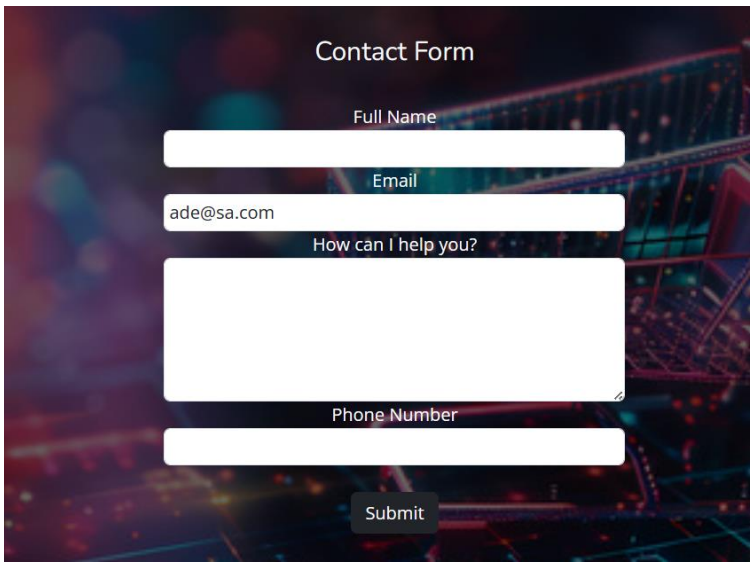
1.Home Page



2.Checkout Page

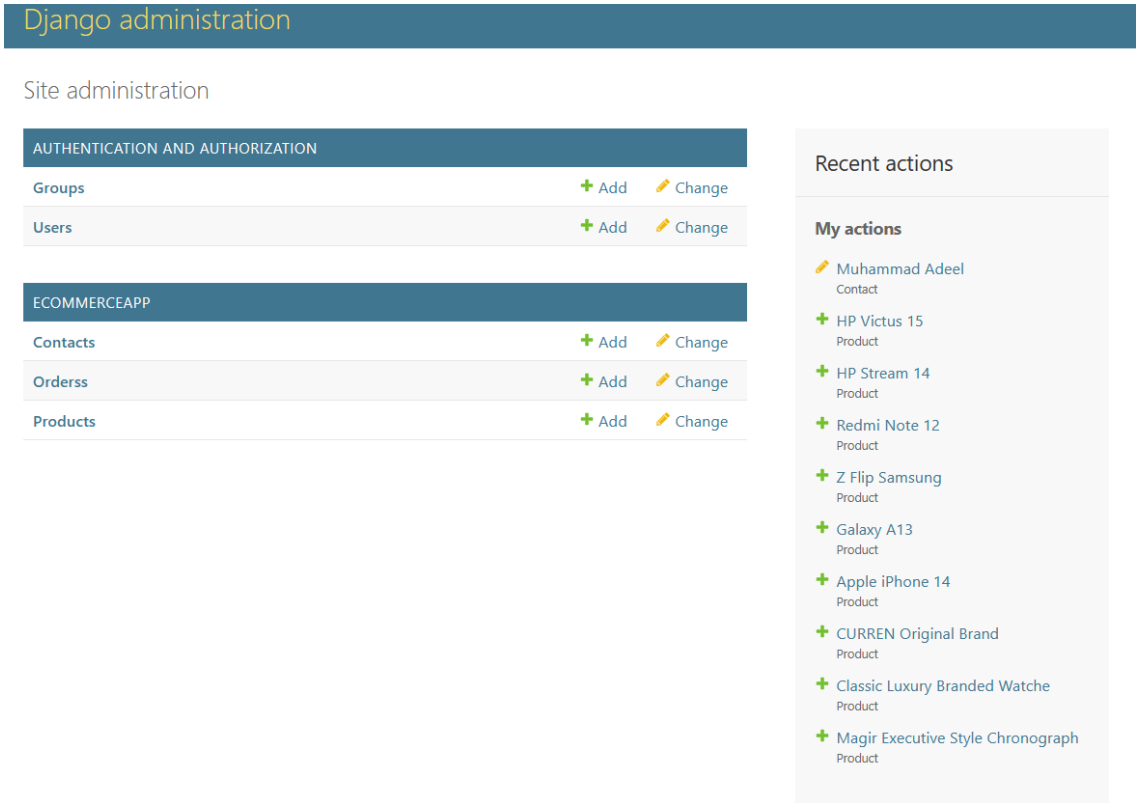


3. Contact Page

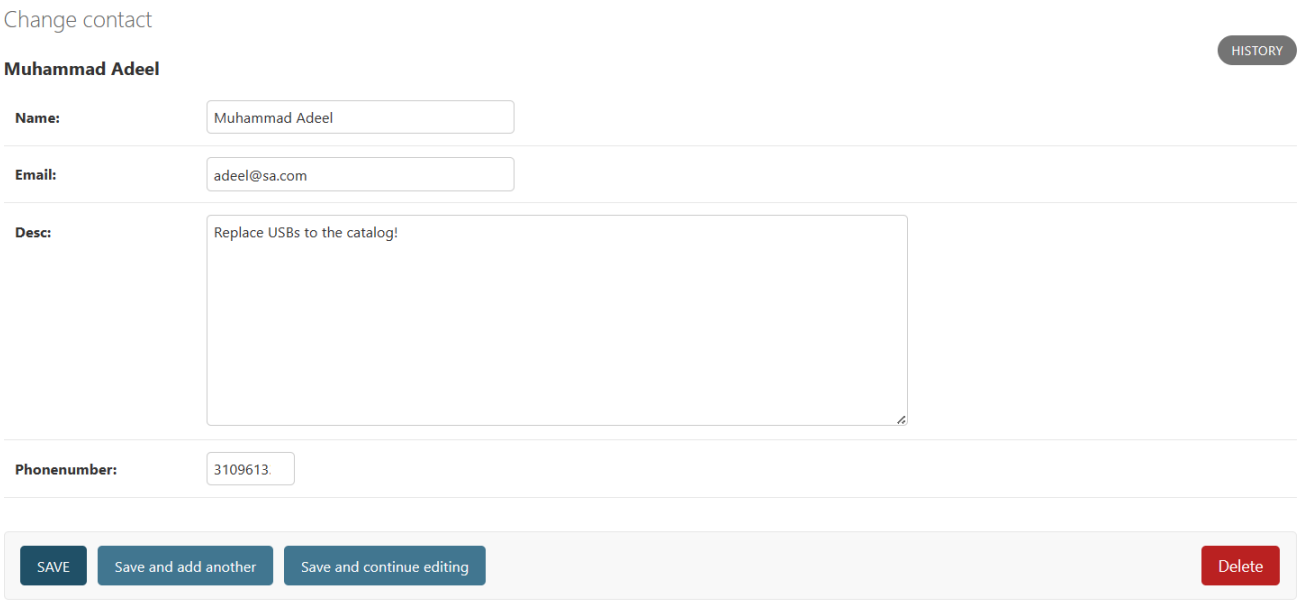


User Interface for Admin

1. Admin Home



2. exp: Admin performing CURD on Contacts table



Future Work:

1. Sign up Authentication:

After signing up, a user should activate his account. A confirmation email functionality could handle this task.

2. Checkout

Building a complete Checkout functionality. Users would be able to add products to cart, view the cart, and confirm order.

3. Payment Integration

After User confirms order. An online payment through a bank account should be integrated.

4. Order Tacking

Users would be able to tack their order. And in case of change of mind, they would cancel/change order.

5. AI Integration:

Incorporating Ai to enhance user experience, personalize product recommendations, and improve overall efficiency.

Conclusion

GIKICart emerges as a dynamic and promising mini e-commerce platform, meticulously crafted with strong frontend and Django as its backbone. With its robust existing features and a roadmap for future enhancements, GIKICart is committed to delivering a seamless and delightful online shopping experience for its users. Powered by the versatility and the agility, GIKICart stands ready to not only meet but exceed the ever-evolving needs of users and effectively navigate the shifting currents of market trends.