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Department of Computer Science and Engineering  
Program: Bachelor of Science in Computer Science and Engineering

### **Project Report**

Course No: 3100

Course Title: Software Development IV

Project Title: HobNob (An E-Commerce Website)

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# HobNob

An One Stop Solution to All Your Shopping Needs

## Introduction:

The HobNob ECommerce Website is a comprehensive online platform that offers a seamless shopping experience for users while providing businesses with a platform to showcase and sell their products. The platform features both an admin panel and a user panel, allowing administrators to manage products and users while users can browse, select, and purchase products.

## Motivation:

The surge in online shopping's popularity has driven the development of HobNob. The project's core motivation is to create a robust, efficient, and userfriendly web platform that meets the diverse needs of online shoppers. By harnessing technological capabilities, HobNob aims to redefine the ecommerce landscape.

## Advantages:

HobNob is all about enhancing your shopping experience. With an intuitive interface, we make browsing a breeze. Our vast product range ensures there's something for everyone. Enjoy tailored recommendations from our data driven system, and shop with confidence thanks to our secure transactions. We're not just a marketplace – we empower local businesses and promote sustainability by partnering with ecofriendly vendors. Join HobNob for a thoughtful and enjoyable shopping journey that supports both your needs and the planet.

## Disadvantages:

While HobNob boasts clear advantages, it's also attentive to potential drawbacks:

Initiating the platform demands substantial upfront investments in technology and marketing. Continuous maintenance and updates are vital for sustained efficiency, possibly requiring extra resources. Despite careful development, technical glitches can arise, affecting user experience and reputation. Competing in a crowded ecommerce market requires strong differentiation to carve out a niche. HobNob addresses these challenges proactively to ensure a successful journey.

## Design Overview:

Following is the UI (User Interface) Design of our website.

### User Panel

#### User Login -

The desktop view of the User Login form is centered on a light purple background with a decorative illustration of a storefront and various icons. The form is a white box with a rounded top. At the top, it says 'HobNob' in a purple rounded rectangle. Below that, the title 'User Login' is centered. The form contains two input fields: 'Username:' with a placeholder 'Enter Your Username' and 'Password:' with a placeholder 'Enter Your Password'. Below the password field are two buttons: a green 'LOGIN' button and a blue 'New User Registration' button.

Desktop View

The mobile view of the User Login form is shown on a narrow screen. The 'HobNob' logo is at the top. The form is titled 'User Login'. It has the same input fields and buttons as the desktop version, but they are scaled to fit the mobile screen. The background illustration is partially visible at the bottom.

Mobile View

#### User Registration -

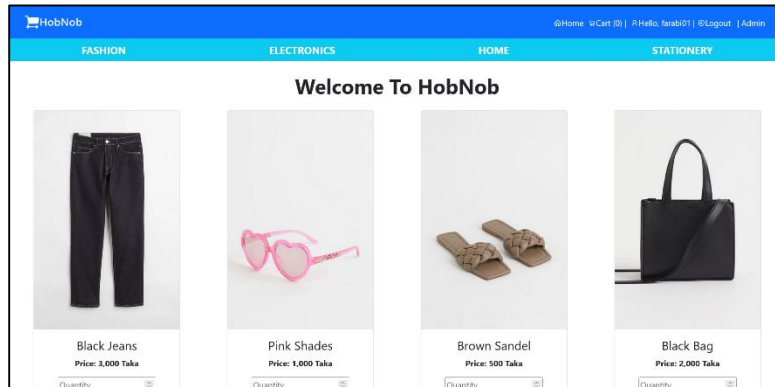
The desktop view of the User Registration form is centered on the same background as the login form. The form is a white box with a rounded top. The title 'User Registration' is centered. It contains four input fields: 'Username:' (placeholder: 'Enter Your Username'), 'E-Mail:' (placeholder: 'Enter Your E-Mail'), 'Phone Number:' (placeholder: 'Enter Your Phone Number'), and 'Password:' (placeholder: 'Enter Your Password'). Below the password field are two buttons: a green 'REGISTER' button and a blue 'Already Have an Account?' button.

Desktop View

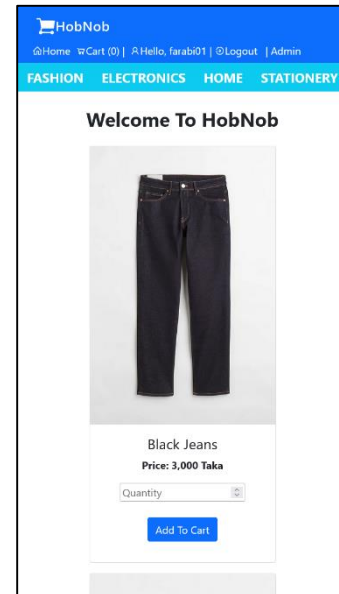
The mobile view of the User Registration form is shown on a narrow screen. The form is titled 'User Registration'. It has the same input fields and buttons as the desktop version, scaled for the mobile screen. The background illustration is partially visible at the bottom.

Mobile View

## Home Page -

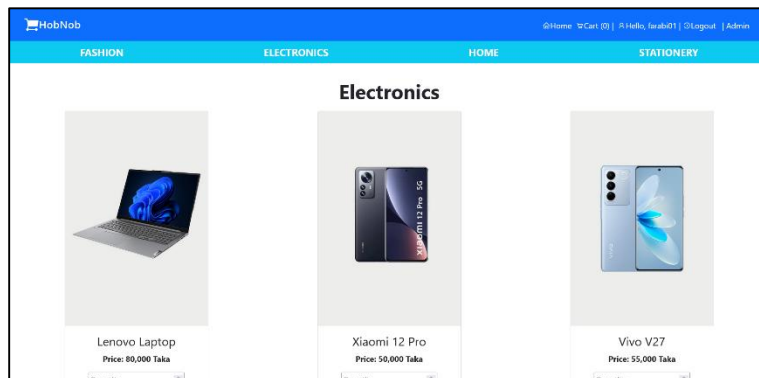


Desktop View

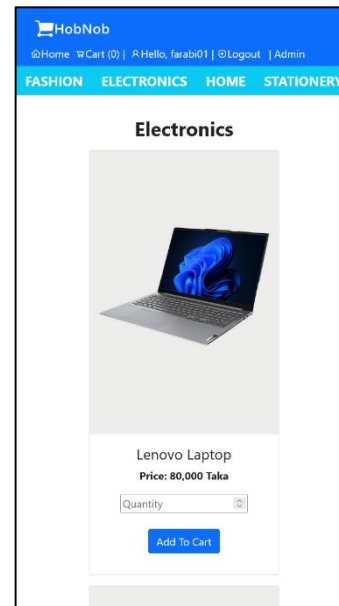


Mobile View

## Sort By Category -

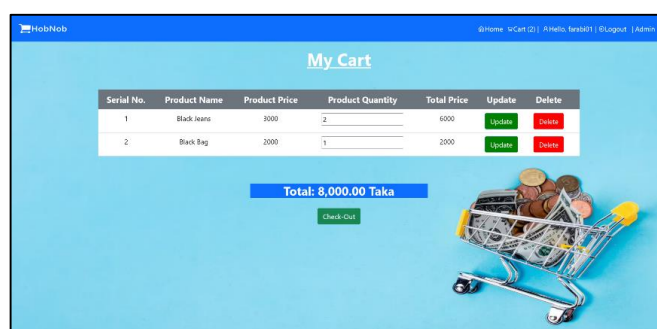


Desktop View



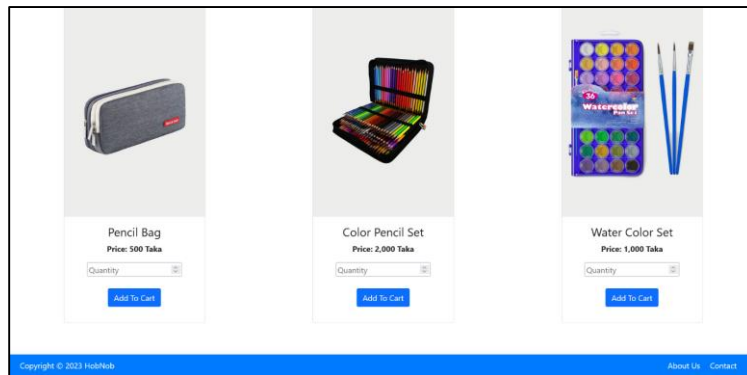
Mobile View

## My Cart -

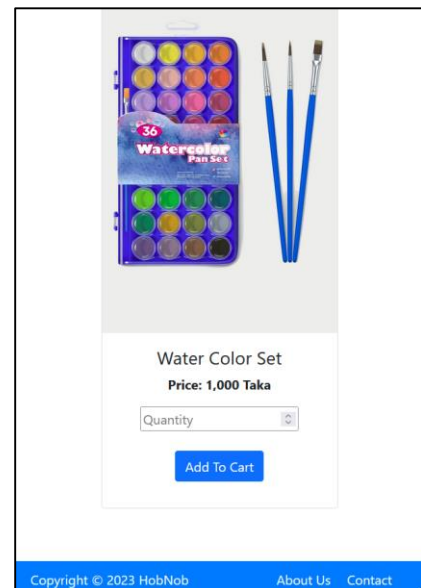


Desktop View

## Footer -

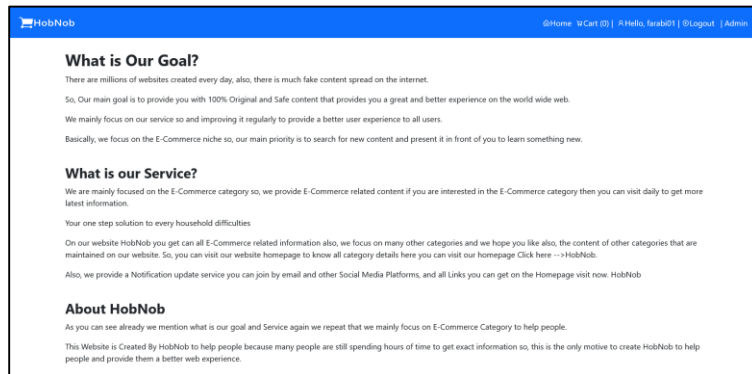


Desktop View

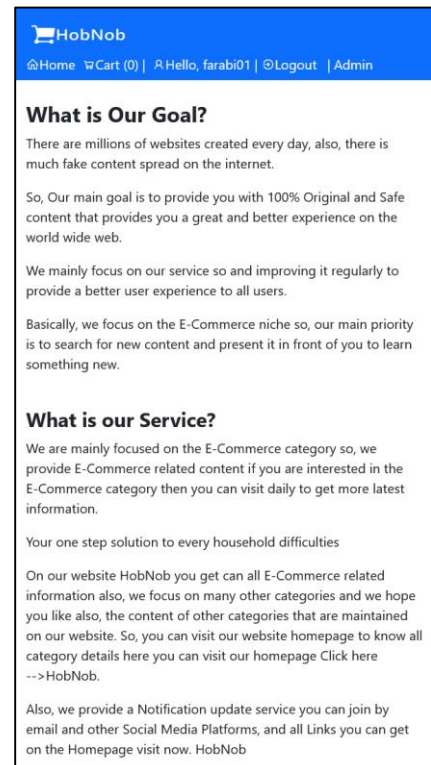


Mobile View

## About Us -



Desktop View



Mobile View

## Contact -

HobNob

Home Cart (0) Hello, farabi01 Logout Admin

Contact Us

Name

Email

Phone Number

Message

Submit

Copyright © 2023 HobNobAbout UsContact

Desktop View

HobNob

Home Cart (0) Hello, farabi01 Logout Admin

Contact Us

Name

Email

Phone Number

Message

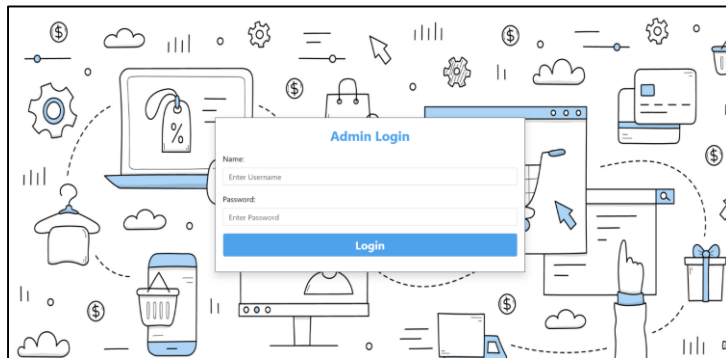
Submit

Copyright © 2023 HobNobAbout UsContact

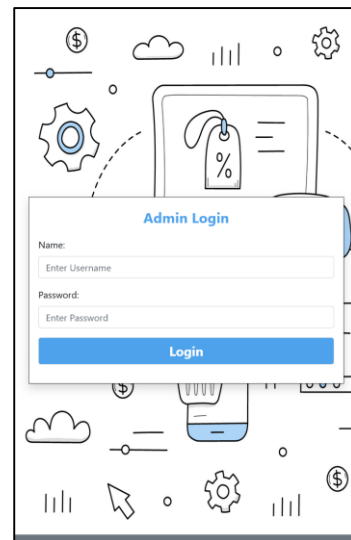
Mobile View

## Admin Panel

### Admin Login -

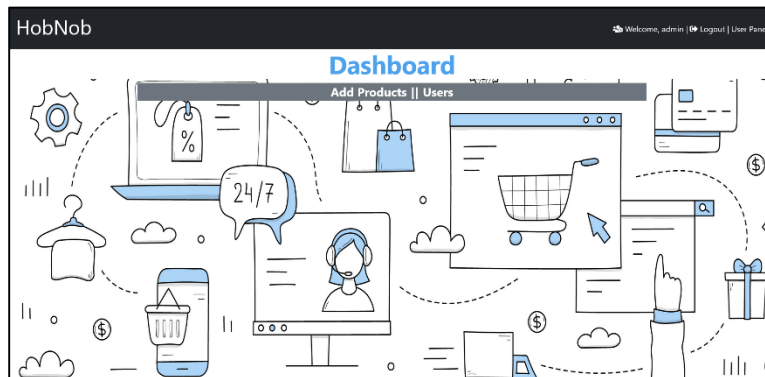


Desktop View



Mobile View

### Admin Home Page -



Desktop View



Mobile View



## Add Product -

**Add Product**

**Product Details**

Product Name  
Enter Product Name

Product Price  
Enter Product Price

Add Product Image  
Browse... No file selected.

Select Product Category  
Home

**Upload**

Id	Name	Price	Image	Category	Delete	Update
10	Black Jeans	3000		Fashion	Delete	Update
12	Pink Shades	1000		Fashion	Delete	Update
13	Brown Sandel	500		Fashion	Delete	Update
19	Black Bag	2000		Fashion	Delete	Update
20	White Sneakers	3000		Fashion	Delete	Update
21	Lenovo Laptop	80000		Electronics	Delete	Update

Desktop View

Id	Name	Price	Image	Category	Delete	Update
10	Black Jeans	3000		Fashion	Delete	Update
12	Pink Shades	1000		Fashion	Delete	Update
13	Brown Sandel	500		Fashion	Delete	Update
19	Black Bag	2000		Fashion	Delete	Update
20	White Sneakers	3000		Fashion	Delete	Update
21	Lenovo Laptop	80000		Electronics	Delete	Update

Table

**Add Product**

**Product Details**

Product Name  
Enter Product Name

Product Price  
Enter Product Price

Add Product Image  
Browse... No file selected.

Select Product Category  
Home

**Upload**

Id	Name	Price	Image	Category
10	Black Jeans	3000		Fashion
12	Pink Shades	1000		Fashion

Mobile View

## User List -

**Users**

S.N	Name	Email	Number	Delete
1	farabi01	farabi01@gmail.com	01234567890	Delete
2	tanjuma93	tanjuma93@gmail.com	01935487944	Delete
3	maisha73	maisha73@gmail.com	01945488955	Delete
4	hasan55	hasan55@gmail.com	01935487944	Delete

**Total**  
4

Desktop View

**Users**

S.N	Name	Email	Number	Delete
1	farabi01	farabi01@gmail.com	01234567890	Delete
2	tanjuma93	tanjuma93@gmail.com	01935487944	Delete
3	maisha73	maisha73@gmail.com	01945488955	Delete
4	hasan55	hasan55@gmail.com	01935487944	Delete

**Total**  
4

Mobile View

## Web Application Specifications:

**Front-End Language:** HTML (Hyper Text Markup Language)  
CSS (Cascading Style Sheet)

**Back-End Language:** PHP (Personal Home Page)

**IDE:** Microsoft Visual Studio Code

## Features:

- I. **User Registration:** The user can create his or her own profile with all the necessary information required login to the website.
- II. **Customer/ User Login:** The user or customer can login after completing their registration in the application and use the application to its full potential.
- III. **Admin Login:** The admins of the app can login and maintain all the admin works like add, update and delete products. See the total number of users registered in the website
- IV. **Category Sort:** User can sort the products based on the categories available in the website. This enables easy navigation for the user and creates ease of use.
- V. **Shopping Cart:** User-friendly cart to manage all the selected items by the user or customer.
- VI. **Add Products (User):** Users can add products to the cart for shopping.
- VII. **Check-Out:** The user or customer can checkout and place the order successfully for a secure and streamlined order process.
- VIII. **Add Products (Admin):** Admins add new products and its image to the catalog.
- IX. **User List:** Admins can view and manage registered users.
- X. **About Us:** Details about design and development team behind the application.
- XI. **Contact:** Users can contact the developer through a message box.

## Functionalities:

The website's functionalities provide a user-friendly experience, including easy registration and login, efficient product browsing, secure transactions, order tracking, user reviews, and responsive customer support. These features empower seamless navigation and confident interactions within the platform.

## Implementation Approach:

Developing HobNob entails a comprehensive approach:

**Front-End and Back-End Development:** Expertise in both frontend (user interface) and backend (server side) development is essential for a seamless experience.

**User Interface Design:** A visually appealing and user friendly design is critical for user engagement and retention.

**Integration of User and Admin Logins:** The secure login systems need to be integrated seamlessly into the platform's architecture.

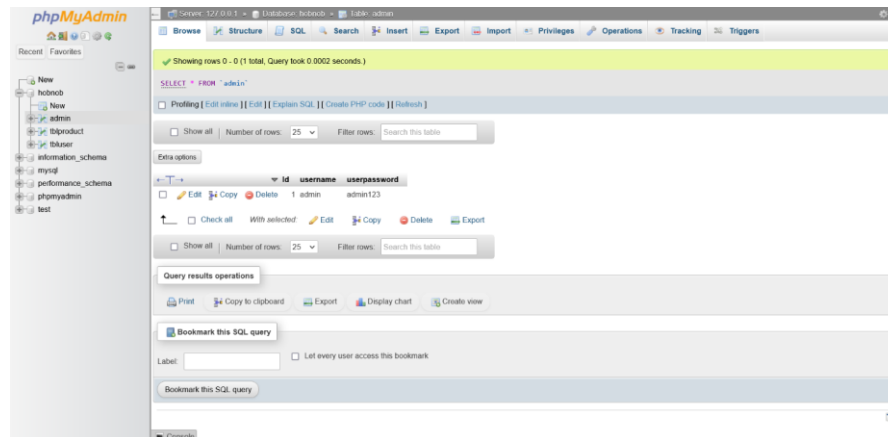
**Product Management Functionalities:** Developing user friendly tools for sellers to manage their product listings is crucial.

**Shopping Cart and Checkout Process:** Creating a smooth, secure, and user friendly shopping cart and checkout process is essential for conversion rates.

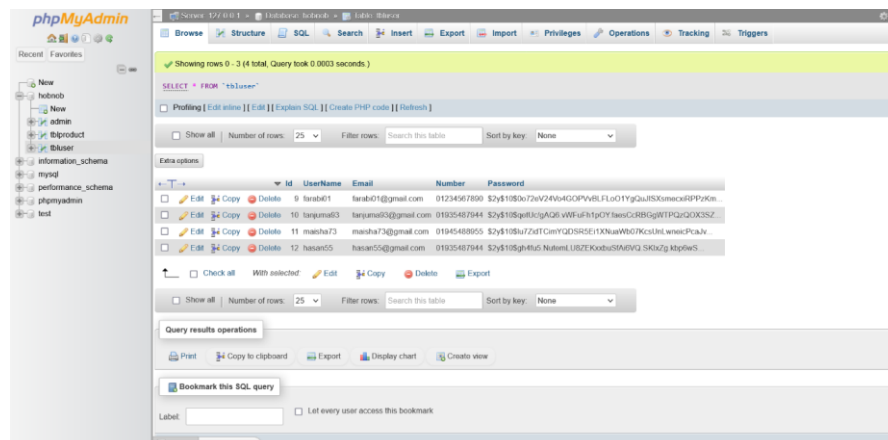
## Database:

HobNob's database will store all the essential data

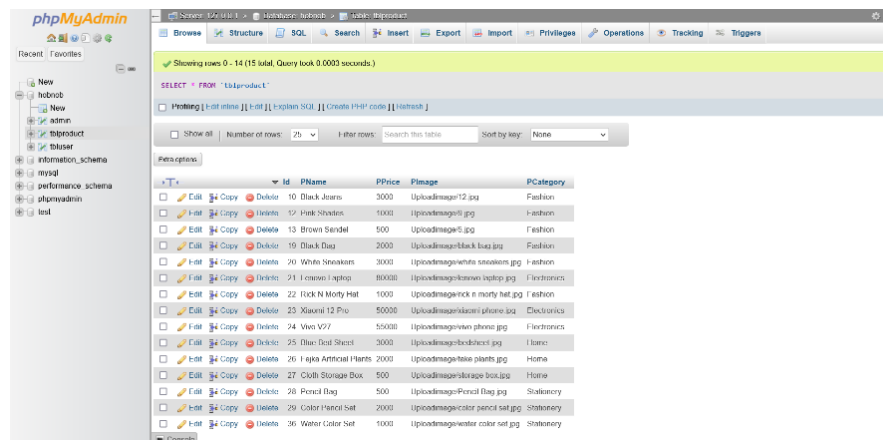
Admin Credentials: Secure storage of login information



User Credentials: Secure storage of login information.



Product Details and Categories: Accurate and up-to-date product information.



	id	PName	PPrice	PImage	PCategory
<input type="checkbox"/>	10	Black Jeans	3000	Uploadsimage12.jpg	Fashion
<input type="checkbox"/>	12	Hulk Shirts	1000	Uploadsimage6.jpg	Fashion
<input type="checkbox"/>	13	Brown Sandel	500	Uploadsimage5.jpg	Fashion
<input type="checkbox"/>	15	Black Bag	2000	Uploadsimageblack bag.jpg	Fashion
<input type="checkbox"/>	20	White Sneakers	3000	Uploadsimagewhite sneakers.jpg	Fashion
<input type="checkbox"/>	21	iPhone 13 Pro	80000	Uploadsimageiphone13pro.jpg	Electronics
<input type="checkbox"/>	22	Rich N Morfy Hat	1000	Uploadsimage-rich n morfy hat.jpg	Fashion
<input type="checkbox"/>	23	Xiaomi 12 Pro	50000	Uploadsimage-xiaomi 12 pro.jpg	Electronics
<input type="checkbox"/>	24	Vivo V27	55000	Uploadsimagevivo phone.jpg	Electronics
<input type="checkbox"/>	25	Blue Foul Sheet	3000	Uploadsimage-blue foul.jpg	Furniture
<input type="checkbox"/>	26	1-pcs Artificial Plants	2000	Uploadsimage-1pc plants.jpg	Home
<input type="checkbox"/>	27	Cloth Storage Box	500	Uploadsimage-storage box.jpg	Home
<input type="checkbox"/>	28	Pencil Bag	500	Uploadsimage-pencil bag.jpg	Stationery
<input type="checkbox"/>	29	Color Pencil Set	2000	Uploadsimage-color pencil set.jpg	Stationery
<input type="checkbox"/>	30	Water Color Set	1000	Uploadsimage-water color set.jpg	Stationery

## Errors and Difficulties:

Anticipated challenges in HobNob's development and operation include:

During the development and operation of the platform, challenges such as unexpected technical glitches despite rigorous testing, the ongoing need to ensure robust security against breaches, potential compatibility issues across devices and systems, addressing scalability challenges during traffic surges, and managing the balance between promoting sustainable products while considering potential cost implications may arise. These hurdles necessitate proactive measures to maintain a seamless user experience and successful platform performance. Some of the notable difficulties faced are –

- Adding a robust payment system.
- Dynamic update of product quantities after check-out
- Customer feedback and review after purchase
- Enlarged view of each item after clicking on it

In conclusion, the HobNob ecommerce platform is propelled by the need for an outstanding online shopping experience. While its advantages offer substantial benefits, potential disadvantages and challenges underscore the complexity of its development. A thorough implementation approach, meticulous database management, and proactive measures to address errors and difficulties are essential to realizing HobNob's vision of reshaping the ecommerce landscape.