



An Autonomous Institute

An Internship Report
ON
“BACK-END DEVELOPER”

*Submitted in partial fulfillment of the requirements for the award of degree of Bachelor
of Engineering in*

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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INTERNAL GUIDE

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MVJ College of Engineering, Bengaluru
(An Autonomous Institute)

Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi, Recognized by UGC with 2(f) & 12 (B),
Accredited by NBA & NAAC

Academic Year - 2022-23



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MVJ COLLEGE OF ENGINEERING

Whitefield, Near ITPB, Bangalore-67

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the internship report entitled **“BACK-END DEVELOPER AT WORLDINTERIA”** is a bonafide work carried out by **PRASANT KUMAR PRADHAN (1MJISCS118)** a bonafide student of MVJ College of Engineering in partial fulfilment for the award of degree of Bachelor of Engineering in Computer Science & Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the Report. The internship Report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of External Examiner

Signature of Internal Examiner



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DECLARATION

I, PRASANT KUMAR PRADHAN, 1MJ19CS118 hereby declare that the Internship titled “**Back-end Developer at WorldInteria**” embodied in this report has been carried out by me during VIII Semester of B.E. degree at MVJCE Bangalore affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM. The work embodied in this report is original and it has not been submitted in part or full for any other degree in any University.

**NAME: PRASANT KUMAR
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USN: 1MJ19CS118

Signature

Place: MVJCE, Bangalore

Date:

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany a successful completion of any task would be incomplete without the mention of people who made it possible, success is the epitome of hard work and perseverance, but steadfast of all is encouraging guidance.

So, with gratitude we acknowledge all those whose guidance and encouragement served as beacon of light and crowned our effort with success.

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We consider it a privilege and honour to express our sincere gratitude to our guide **Mrs. Nikitha G S, Professor, Dept. of CSE** for her valuable guidance throughout the tenure of this project work, and whose support and encouragement made this work possible. It is also an immense pleasure to express our deepest gratitude to all faculty members of our department for their cooperation and constructive criticism offered, which helped us a lot during our project work.

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TABLE OF CONTENTS

| Serial No. | Chapter Name | Page No |
|-------------------|-----------------------------|----------------|
| 1 | Introduction | 2 |
| 2 | About the organization | 3 |
| 3 | Methodology | 5 |
| 4 | System Requirements | 7 |
| 5 | Implementation | 8 |
| 6 | Conclusion and Future Scope | 14 |
| | References | 15 |

ABSTRACT

This online marketplace handicraft and decor company offers a wide range of unique and handmade products, including home decor, fashion accessories, and gifts. With a focus on promoting local artisans and traditional crafts, the company provides a platform for small businesses and independent artists to showcase their work to a global audience. The website features easy navigation and secure payment options, making it convenient for customers to shop online. The company also offers personalized customer service, ensuring a positive shopping experience for every customer. Overall, the online marketplace handicraft and decor company offers a sustainable and socially responsible shopping experience for those looking for one-of-a-kind handmade products.

CHAPTER - 1

INTRODUCTION

It is an online marketplace handicraft and decor company, where it offers a wide range of unique handmade products created by local artisans and small businesses. It is an committed to promoting sustainable and socially responsible shopping while also providing a platform for independent artists to showcase their work to a global audience.

The website features easy navigation and secure payment options, making it convenient for customers to shop online. It offers personalized customer service to ensure that every customer has a positive shopping experience. It focuses on traditional crafts and promoting local artisans is at the heart of what we do, and we strive to make a positive impact on the communities we serve.

It is always looking for ways to improve our platform and better serve our customers. The company believes that technology plays a critical role in enabling us to achieve our mission, and are committed to working with the best and brightest minds in the industry to continue to innovate and expand our offerings.

CHAPTER - 2

ABOUT THE ORGANIZATION

WorldInteria: WorldInteria is an online marketplace. We help Roadside Sellers who deals in home decor and handicrafts etc. to sell their products online via our platform. We are India's cheapest and affordable marketplace. We deals in B2B and B2C segments. WorldInteria fulfils all your decor needs. It is a one stop platform to give your home or office and your other premises a luxury touch by our latest and trendy collections. Our aim is to be the Décor Capital of India. The parent Company of worldinteria.com is "Blooming Technologies Private Limited".

1.1Introduction

It is an online marketplace handicraft and decor company, where it offers a wide range of unique handmade products created by local artisans and small businesses. It is an committed to promoting sustainable and socially responsible shopping while also providing a platform for independent artists to showcase their work to a global audience. The website features easy navigation and secure payment options, making it convenient for customers to shop online. It offers personalized customer service to ensure that every customer has a positive shopping experience. It focuses on traditional crafts and promoting local artisans is at the heart of what we do, and we strive to make a positive impact on the communities we serve.

1.2Vision

The vision for our online marketplace handicraft and decor company is to be the go-to destination for customers seeking unique, handmade products that are sustainably sourced and socially responsible. We aim to create a platform that connects customers with independent artisans and small businesses from around the world, while promoting traditional crafts and preserving cultural heritage.

1.3Mission

Our mission for our online marketplace handicraft and decor company is to provide a platform for independent artisans and small businesses to showcase their unique handmade products to a global audience. We aim to promote sustainable and socially responsible shopping while preserving cultural heritage and traditional crafts.

1.4Team

WorldInternia is a team of experienced professionals providing a wide range of Web technological solutions. The energetic professionals with vast experience who are working in almost all technologies & spheres of IT and NIT.

1.5Services

- Vendor onboarding and management: We provide a simple and straightforward onboarding process for vendors, allowing them to easily set up their online store and start selling their handmade products. We also offer vendor management tools to help vendors manage their inventory, orders, and customer interactions.
- Product curation: We carefully curate the products available on our platform, ensuring that every item meets our high standards for quality, sustainability, and social responsibility. This helps to provide customers with a unique and carefully curated selection of handmade items.
- Customer service: We are dedicated to providing personalized customer service and support, helping customers with any questions or issues they may have. Our customer service team is available via email, phone, and chat to ensure a seamless and positive shopping experience.
- Secure transactions: We use secure payment processing systems to ensure that all transactions on our platform are safe and secure. This includes using encryption to protect customer and vendor data, and implementing fraud prevention measures to minimize the risk of fraudulent transactions.
- Marketing and promotion: We offer marketing and promotional services to help vendors increase their visibility and reach more customers. This includes social media promotion, email marketing campaigns, and featured product placements on our platform.

CHAPTER - 3

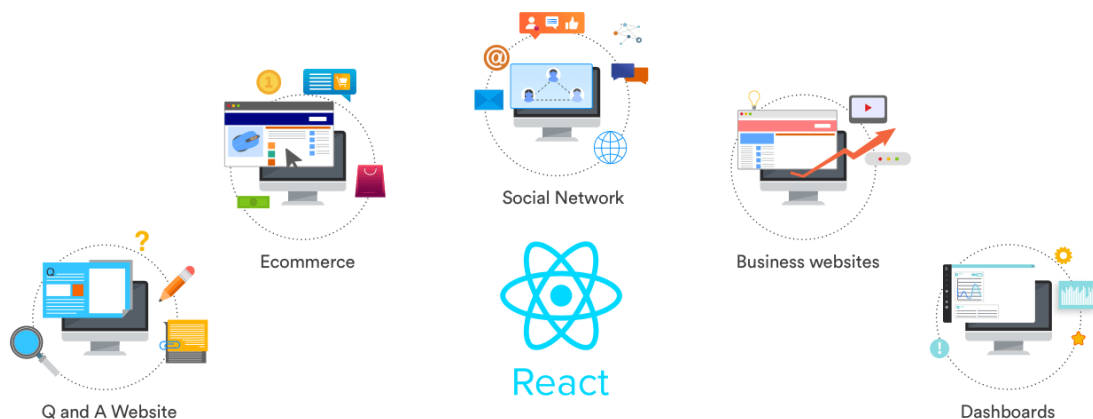
METHODOLOGY

Existing Method

One common methodology used by React developers is the component-based architecture, where the application is divided into smaller, reusable components that can be easily managed and updated. Developers typically use JSX, a syntax extension for JavaScript, to define these components and their behaviour. They also use state management tools like Redux or React Context to manage data flow within the application.

Proposed Method

A proposed methodology for React development is the use of Hooks, which allow developers to use state and other React features in functional components, instead of relying on class components. This approach can simplify the codebase and improve performance, as functional components tend to be lighter-weight than class components. Additionally, there is a growing trend towards using TypeScript with React, which provides additional type checking and code clarity.



In general, React developers prioritize code reusability, performance, and maintainability when choosing a methodology. They also tend to stay up-to-date with the latest developments in the React ecosystem and incorporate new tools and approaches as needed to improve their development process.

Hooks were introduced in React 16.8 as a way to allow developers to use state and other React features in functional components. Prior to Hooks, developers were limited to using class components to access state and lifecycle methods. Hooks offer a simpler, more intuitive way to handle state and side effects in functional components, which tend to be more lightweight and easier to reason about than class components.

Some common hooks used in React development include `useState`, `useEffect`, `useContext`, and `useCallback`. `useState` allows developers to define and update component-level state within a functional component, while `useEffect` is used to handle side effects like fetching data from an API or subscribing to events. `useContext` and `useCallback` are used to manage application-level state and memorize functions for better performance.

TypeScript is a static type-checking language that can be used with React to catch errors and improve code clarity. With TypeScript, developers can define and enforce types for props, state, and other variables within their React components. This can help prevent bugs and make the codebase easier to maintain and scale.

Together, Hooks and TypeScript can provide a powerful combination for React development, allowing developers to write clean, performant, and error-free code. However, it's important to note that while these tools can be beneficial, they may also come with a learning curve and require additional setup and configuration.

CHAPTER - 4

SYSTEM REQUIREMENTS

A software requirement definition is an abstract description of the services which the system should provide, and the constraints under which the system must operate. It should only specify the external behaviour of the system. The requirements are specified as below:

Requirements:

• Hardware Requirements

Processor: Intel Core 2 or Any Multi Core Processor(minimum)

Hard Disk: 256GB

RAM: 8GB (minimum)

• Software Requirements

Operating System: Windows, macOS or Linux

Technology: VS Studio, Atom or Sublime(Text Editor), Node.js and npm

Libraries

Redux, Axios, Moment.js, React Router

CHAPTER - 5

IMPLEMENTATION

To implement React and its associated libraries in a project, follow these general steps:

1. **Install Node.js:** Before you can use React, you'll need to install Node.js, which comes with npm (Node Package Manager). This will allow you to install and manage the various libraries and dependencies that you'll need for your project.
2. **Create a new React project:** Once you have Node.js installed, you can use the create-react-app command to create a new React project. This will create a basic project structure with all the necessary files and folders.
3. **Install additional libraries:** Depending on the specific requirements of your project, you may need to install additional libraries such as Redux, React Router, Axios, or Moment.js. You can install these libraries using npm or yarn and then import them into your React components.
4. **Write React components:** With your project set up and your libraries installed, you can begin writing your React components. Components are the building blocks of a React application, and they are typically written using JSX, a syntax extension that allows you to write HTML-like markup within your JavaScript code.
5. **Manage state and data flow:** As your project grows in complexity, you may need to manage state and data flow between your React components. Redux is a popular library for managing application state, while Axios is commonly used for making HTTP requests to APIs.
6. **Style your components:** Finally, you'll want to style your components using CSS, SCSS, or a CSS-in-JS library like styled-components or Emotion. React provides several ways to style components, including inline styles, style objects, and CSS modules.

Overall, the implementation of React and its associated libraries will depend on the specific needs and requirements of your project. However, by following these general steps, you can get started with React development and begin building powerful, dynamic user interfaces.

OUTPUT:

The screenshot shows the product page for a 'Terracotta Pen Holder And Decorative Showpiece.(Multicolor)' on the Worldinteria website. The page features a large image of the product, which is a colorful, abstract terracotta sculpture. A green 'SALE' badge is visible in the top left corner of the product image. The product title is prominently displayed, followed by a search icon and social media sharing links (Facebook, Twitter, Instagram, LinkedIn). Below the title, the status is 'In Stock'. The material is listed as 'Terracotta', the region as 'Rajasthan', and the art form as 'Rajasthani Art'. A section titled 'About The Creator' provides a brief biography of Kamal Kumar Ji, a 37-year-old artisan. A list of five points describes the product's origin, the creator's background, and the impact of joining Worldinteria on his revenue and livelihood. The browser's address bar shows the URL 'worldinteria.com/product/terracotta-pen-holder-and-decorative-showpiece-2/'. The Windows taskbar at the bottom indicates a temperature of 28°C and a date of 30-04-2023.

worldinteria.com/product/terracotta-pen-holder-and-decorative-showpiece-2/

Search for products

Home Blog Shop About us Contact us Login or Signup

Home > Arts and Handicrafts > Terracotta Pen Holder And Decorative Showpiece.(Multicolor)

SALE

Terracotta Pen Holder And Decorative Showpiece.(Multicolor)

Add your review Status: In Stock

Material : Terracotta
Region : Rajasthan
Art Form : Rajasthani Art
About The Creator

1.This creation was made by Kamal Kumar Ji, a 37-year-old man who works as a poor artisan, selling his art on the roadside (footpath)
2. Prior to joining Worldinteria, these men earned between Rs. 10000-11000 per month
3. However, after joining Worldinteria, their revenue increased by 53%.
4. By purchasing this product, you are not only acquiring a beautiful piece of art, but also helping to improve the livelihood of these men.
5. This is because Kamal Kumar Ji will receive 75% of the amount you pay for the

28°C Partly sunny 12:10 30-04-2023

The screenshot shows the 'My wishlist' page on the Worldinteria website. The page displays a table with the product 'Terracotta Pen Holder And Decorative Showpiece.(Multicolor)'. The table columns are 'PRODUCT NAME', 'UNIT PRICE', and 'STOCK STATUS'. The unit price is shown as ₹850.00 crossed out and ₹470.00 in red. The stock status is 'In Stock'. Below the table, there are social media sharing links (Facebook, Twitter, Instagram, Email, WhatsApp). The browser's address bar shows the URL 'worldinteria.com/wishlist/'. The Windows taskbar at the bottom indicates a temperature of 28°C and a date of 30-04-2023.

worldinteria.com/wishlist/

Search for products

Home Blog Shop About us Contact us Login or Signup

Home > Wishlist

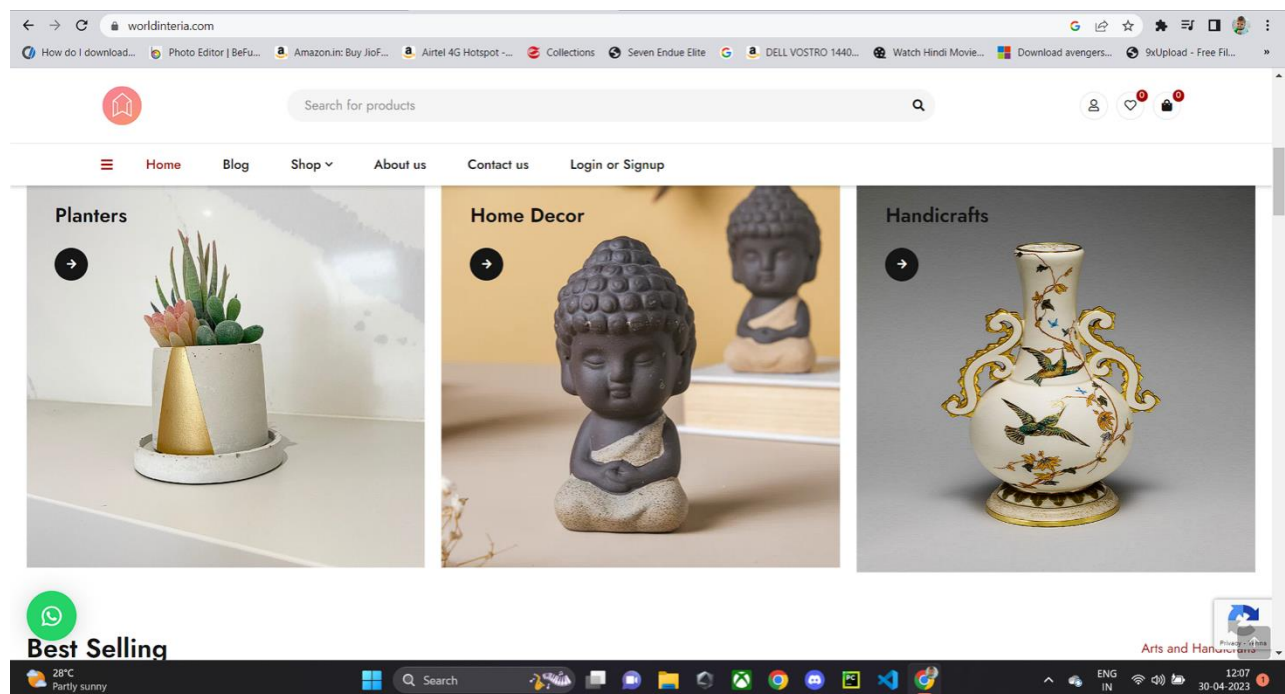
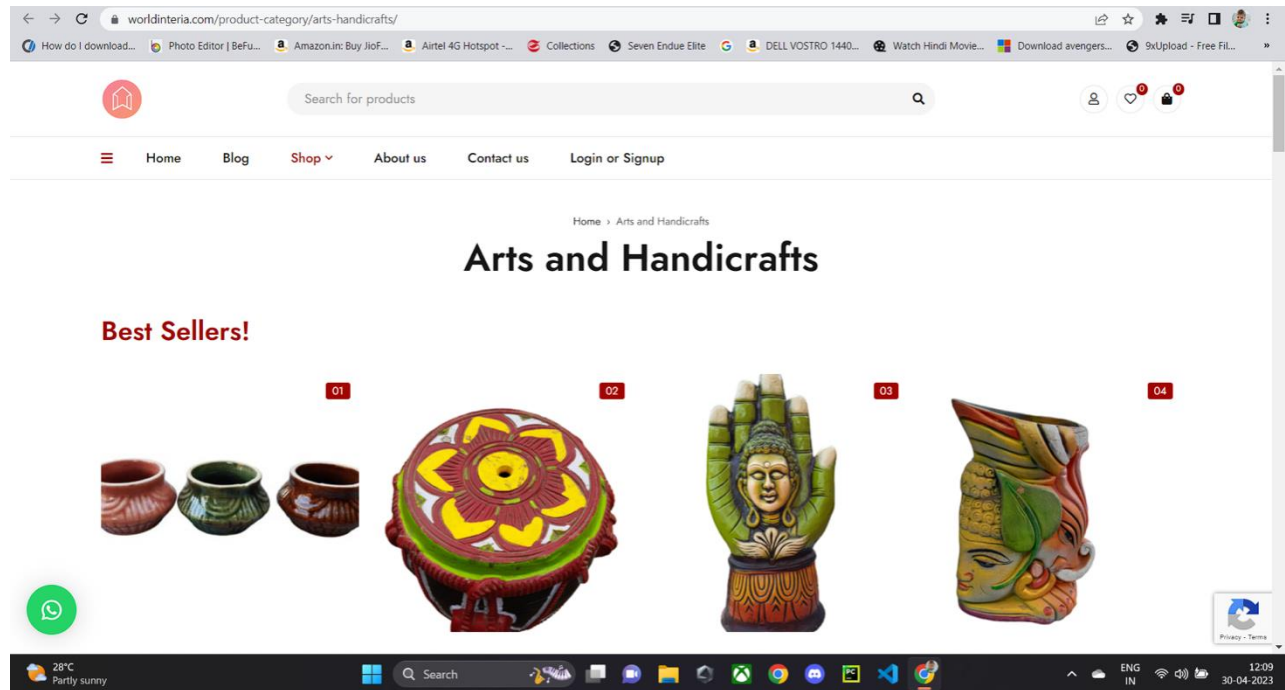
My wishlist

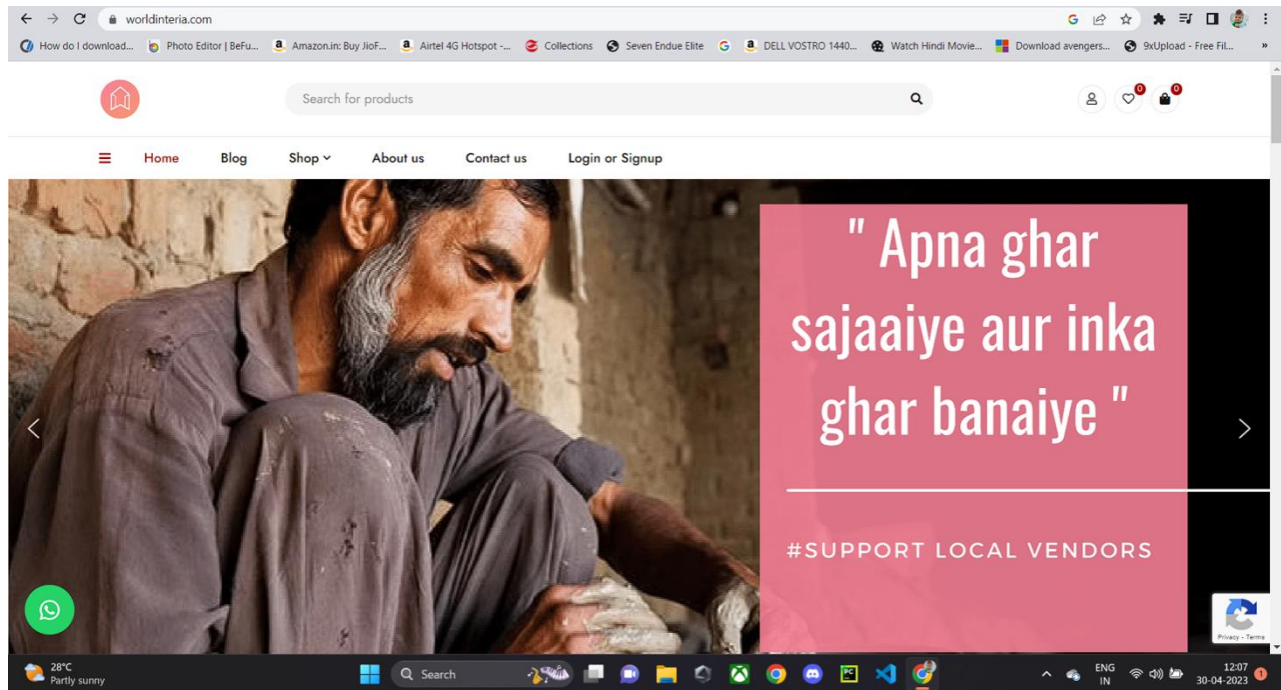
| PRODUCT NAME | UNIT PRICE | STOCK STATUS |
|---|-----------------|--------------|
| Terracotta Pen Holder And Decorative Showpiece.(Multicolor) | ₹850.00 ₹470.00 | ✓ In Stock |

SHARE ON:

Facebook Twitter Instagram Email WhatsApp

28°C Partly sunny 12:10 30-04-2023





APPLICATIONS:

1. E-commerce platforms: The development of e-commerce platforms for online market place handicraft and decor companies is a popular application of computer science. As a computer science student, you can work on the development of such platforms, which involves the design and implementation of user-friendly interfaces, secure payment gateways, and robust back-end systems.
2. Data analytics: Another application of computer science in an online market place handicraft and decor company is data analytics. By collecting and analysing customer data, you can help the company make informed decisions about marketing strategies, product offerings, and customer service.
3. Artificial intelligence and machine learning: Artificial intelligence and machine learning can be applied in an online market place handicraft and decor company to improve customer experience, product recommendations, and fraud detection.

4. Mobile application development: With the increasing use of smartphones, online market place handicraft and decor companies are also developing mobile applications to provide customers with a more convenient way to shop. As a computer science student, you can develop such applications, which require knowledge of mobile app development frameworks, programming languages, and user interface design.
5. Cybersecurity: Online market place handicraft and decor companies also require robust cybersecurity measures to protect customer data and prevent fraud. As a computer science student, you can work on implementing cybersecurity protocols, such as encryption, firewalls, and intrusion detection systems.

ADVANTAGES:

1. Wide customer reach: The online market place allows the company to reach a large customer base, including those who are not within the physical vicinity of their physical stores.
2. Increased visibility: By having an online presence, the company can increase its visibility and brand awareness.
3. Reduced overhead costs: Operating an online market place reduces the need for a physical storefront, thereby reducing overhead costs such as rent, utilities, and maintenance.
4. Convenience for customers: Customers can shop at anytime from anywhere, providing a level of convenience that can increase customer satisfaction and loyalty.
5. Ability to collect customer data: By operating online, the company can collect and analyse customer data, which can help in improving marketing strategies and customer experience.

DISADVANTAGES:

1. High competition: The online marketplace can be highly competitive, with numerous other companies vying for customers' attention and business.
2. Security risks: Online marketplaces can be vulnerable to security risks such as hacking, data breaches, and cyber-attacks, which can put customer data and financial information at risk.
3. Dependence on technology: Operating an online market place requires a strong dependence on technology and digital platforms, which can be a disadvantage if there are any technical issues or malfunctions.
4. Lack of physical interaction: Operating exclusively online can limit the opportunities for personal interaction with customers and may result in a loss of the tactile shopping experience that is characteristic of physical stores.
5. Logistics and supply chain challenges: The online market place requires efficient logistics and supply chain management to ensure timely and accurate delivery of orders, which can be challenging for smaller companies with limited resources.

CHAPTER - 6

CONCLUSION AND FUTURE SCOPE

For the future of the online decor and handicraft company, I believe that a strong and reliable backend is crucial for our success in the highly competitive e-commerce market. With the expertise and dedication of our backend development team, we have been able to streamline our processes and enhance the user experience for our customers.

Looking to the future, we aim to continue investing in the development of our backend systems to further optimize our operations and provide even more personalized and efficient services to our customers. We also plan to explore new technologies and innovations in the field of backend development to stay ahead of the curve and remain a leader in the industry. Overall, we are confident that our commitment to high-quality backend development will continue to drive the success and growth of our online decor and handicraft company in the years to come.

REFERENCES

During the project given to me during internship the following references were used:

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- [2] https://ngninja.gumroad.com/l/html2react/ref?affiliate_id=172561523
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