M.V.P.SAMAJ'S

K.R.T ARTS, A.M.SCIENCE AND B.H.COMMERCE

COLLEGE, GANGAPUR ROAD

NASHIK.

A PROJECT REPORT
ON

Online Furniture shop

Developed by

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B.C.A. (Science)

(2023-2024)

Under the guidance of

Prof./Dr. Guide Name

Department of Computer Science

M.V.P.SAMAJ'S

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CERTIFICATE

This is to certify that project report on

Online Furniture shop

Has been successfully completed by,

Shivani Pagar

Vaishnavi Ikhankar

For fulfillment of T.Y.B.C.A. (Science)

During the academic year 2023-2024

(Project Guide)   (Head of Department)   (ExternalExaminer)

Acknowledgement

We are happy to present the project *"Online Furniture Shop"* in JAVA.

A Project titled *"Online Furniture Shop"* would not have been completed without the valuable guidance and encouragement of "Guide Name" and all staff members. We acknowledge them for their moral support.

This project is substantially upgrading our skill of software development which we intend to good use in developing better system in future.

In conclusion, we would like to express our thanks to management for providing us all facilities for completion of our project.

Finally we extend our thanks our all B.C.A (Science) staff, Classmates and also thanks to our parents to help us all time.

And special thanks to my Friends who helped us for successful completion of this project. They pointed out errors &suggested changes, thus helped in many ways, give us the idea of this project.

Shivani Pagar

Vaishnavi Ikhankar

INDEX

INTRODUCTION

Welcome to furniture shop , where style meets comfort and your dream living spaces come to life!

This is a small scale project for Online Furniture shop. The basic idea is that user can buy products online. It consists of product details, product quantity ,product quality and price.

The E-Furniture shopping   project brings an entire furniture shop online and make it easy for both buyyer and seller to make furniture deals. We prioritize quality materials and attention to detail to guarantee furniture that stands the test of time.Shop with confidence knowing that your online transactions are secured through the latest encryption technologies. We provide multiple payment options for your convenience.

Problem definition

- **<u>Limited Product Variation:</u>** Existing furniture shops often have a fixed catalog, restricting customers to a predetermined set of options.Lack of variety in terms of size, color, material, and design can result in customers settling for items that don't fully meet their needs.

- **<u>Inflexible Designs:</u>** Most furniture shops offer pre-designed items without the flexibility to modify dimensions, styles, or functionalities.Customers with unique spatial requirements or specific design preferences face challenges in finding suitable products.

- **<u>Customer Frustration:</u>** Customers may experience frustration when unable to find furniture that perfectly fits their space or aligns with their vision.The dissatisfaction stemming from these limitations can lead to negative reviews, reduced customer loyalty, and lost business opportunities.

- **<u>Outdated Business Model:</u>** A lack of customization options indicates an outdated business model that does not align with modern consumer preferences.Adapting to customer-centric practices and embracing customization can revitalize the furniture business and attract a broadr customer base.

Need of system

- **E-commerce Platform**:   A dedicated system provides a platform for your online furniture shop, allowing customers to browse through your products, view details, and make purchases seamlessly.

- **Product Catalog Management:** A system helps in organizing and managing your furniture catalog effectively. You can categorize products, add descriptions, images, and specifications, making it easier for customers to find what they need.

- **User Authentication and Profiles:** Implementing user accounts allows customers to track their orders, save favorite items, and expedite the checkout process. It also helps in building a customer database for targeted marketing and communication.

- **Secure Online Transactions:** Ensure secure payment gateways for online transactions. This is crucial to gain customer trust and protect sensitive information during the checkout process.

- **Order Management System**: An order management system helps in tracking and managing customer orders efficiently. It enables you to update order status, process returns, and handle customer inquiries related to their purchases.

- **Inventory Management:** Keep track of your furniture inventory in real-time. This prevents overselling, helps in restocking decisions, and ensures accurate product availability information for customers

- **<u>Search Functionality:</u>** This can include filters based on categories, price ranges, styles, and more.

Proposed System

- **<u>Enhance Customer Satisfaction:</u>**

Provide customers with the ability to customize furniture according to their specific requirements, ensuring a higher level of satisfaction.

- **<u>Expand Product Offering:</u>**

Diversify the product range by incorporating customization options, appealing to a broader customer demographic with varied tastes and preferences.

- **<u>Competitive Advantage:</u>**

Gain a competitive advantage by offering a unique selling proposition customized furniture solutions that set the business apart from competitors.

- **<u>Adapt to Changing Consumer Trends:</u>**

Embrace modern consumer trends by adopting a customer-centric approach, reflecting the shift towards personalized and unique product offerings.

- **<u>Improve Brand Loyalty:</u>**

Foster brand loyalty by providing customers with a positive and memorable experience, encouraging repeat business and positive word-of-mouth referrals.

Addressing the lack of customization facilities in furniture shops requires a strategic shift towards a more customer-centric business model, emphasizing flexibility, personalization, and responsiveness to individual needs.

Feasibility Study

1. **<u>Technical Feasibility</u>**

System Architecture - Present the overall architecture of the online furniture shop, including server components, databases, and external integrations.

Scalability - Discuss the scalability of the system to accommodate potential future growth in terms of users and products.

Security Measures - Outline the security measures in place to protect user data, payment information, and other sensitive information.

This system will be developed using html,css,javascripts techology.

It provides the technical guarantee of accuracy,reliability and security.

Thus,the proposed system is technically feasible.

2.**<u>Operational Feasibility</u>**

Development Team - Introduce the development team, their expertise, and their roles in the project.

Training and Support - Detail the training and support plans for both end-users and the internal team.

The website itself does major task of the user,the only work for the user is to click on the controls.

Thus, the proposed system is operationally feasible.

3. **<u>Economical Feasibility</u>**

Cost Estimation - Provide a detailed breakdown of the estimated costs involved in developing and maintaining the online furniture shop.

Revenue Model - Describe the revenue streams, such as product sales, subscription models, or advertising.

We classified the cost of online furniture shop according to the phase in which they occur.as we know that the system development costs are usually one time costs that will not recur after the project has been completed.

Thus, the proposed system is economically feasible.

Hardware Software Requirements

Hardware Requirements:-

- 8 GB RAM

- SSD

SOFTWARE REQUIREMENTS:-

- Operating System:-   Windows

- Language:-   HTML, CSS, JSP

- Backend:-   Postgresql

FACT FINDING TECHNIQUES

Social Media Listening:

Monitor social media platforms for discussions related to furniture shopping.

Identify trends, sentiments, and common issues raised by potential users.

Interviews:

Conduct interviews with stakeholders, including business owners, marketing teams, and potential customers.

Ask open-ended questions to gather insights into their expectations, preferences, and challenges related to an online furniture shop.

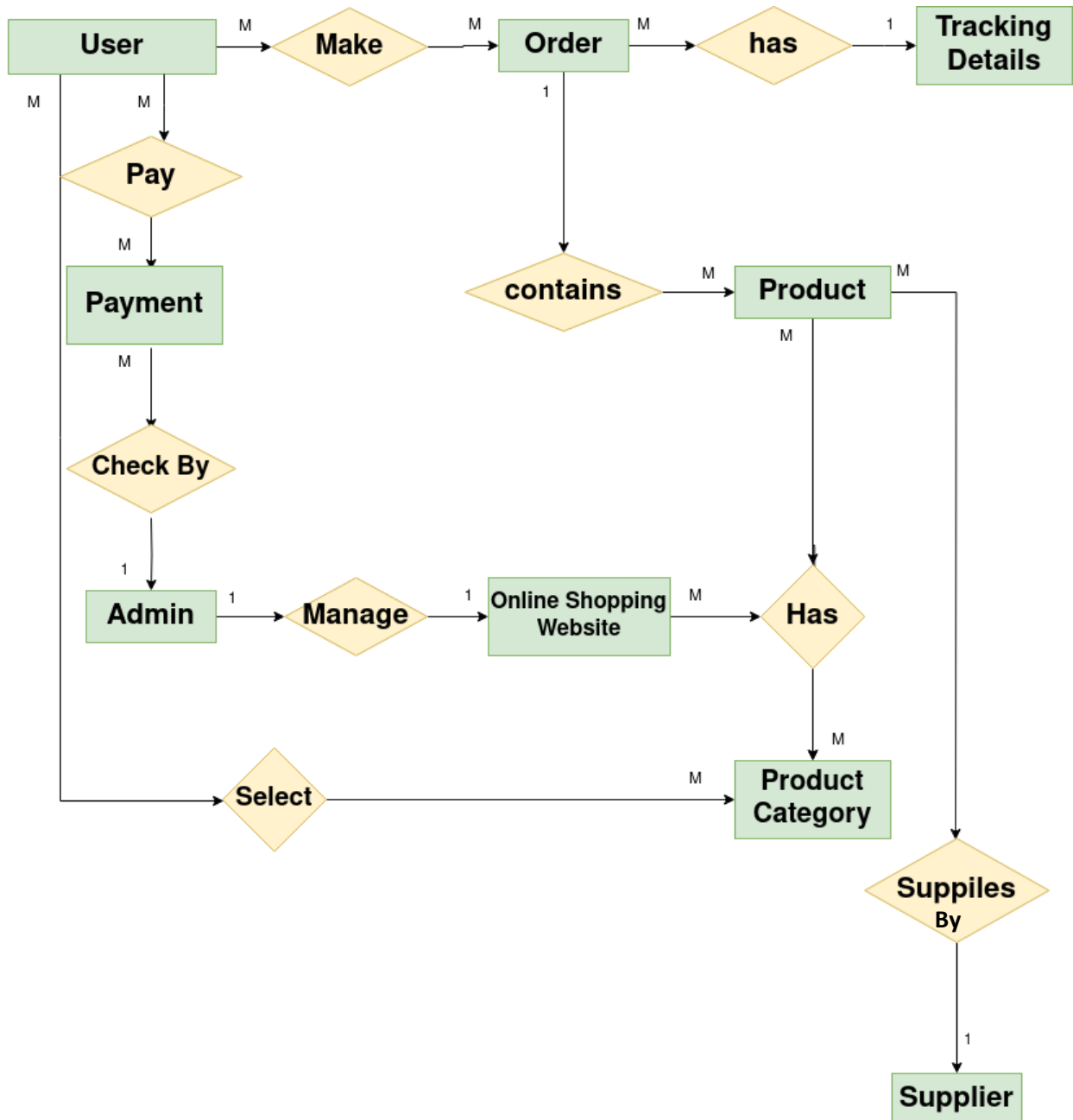Seek input on features, design, and user experience.

Observation:

Observe potential users interacting with existing online furniture shops to understand their behaviors, pain points, and preferences.

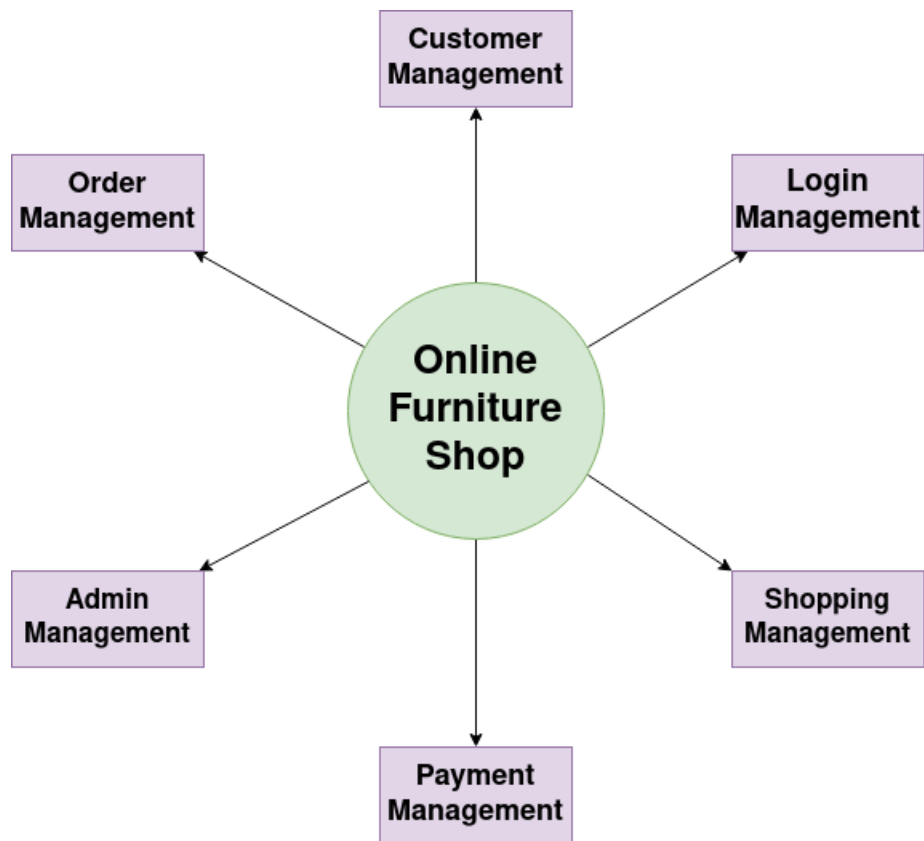Pay attention to navigation patterns, search habits, and common issues they may encounter.

Observe and interact with potential users in their natural environment to understand how they may use an online furniture shop in real-life situations.

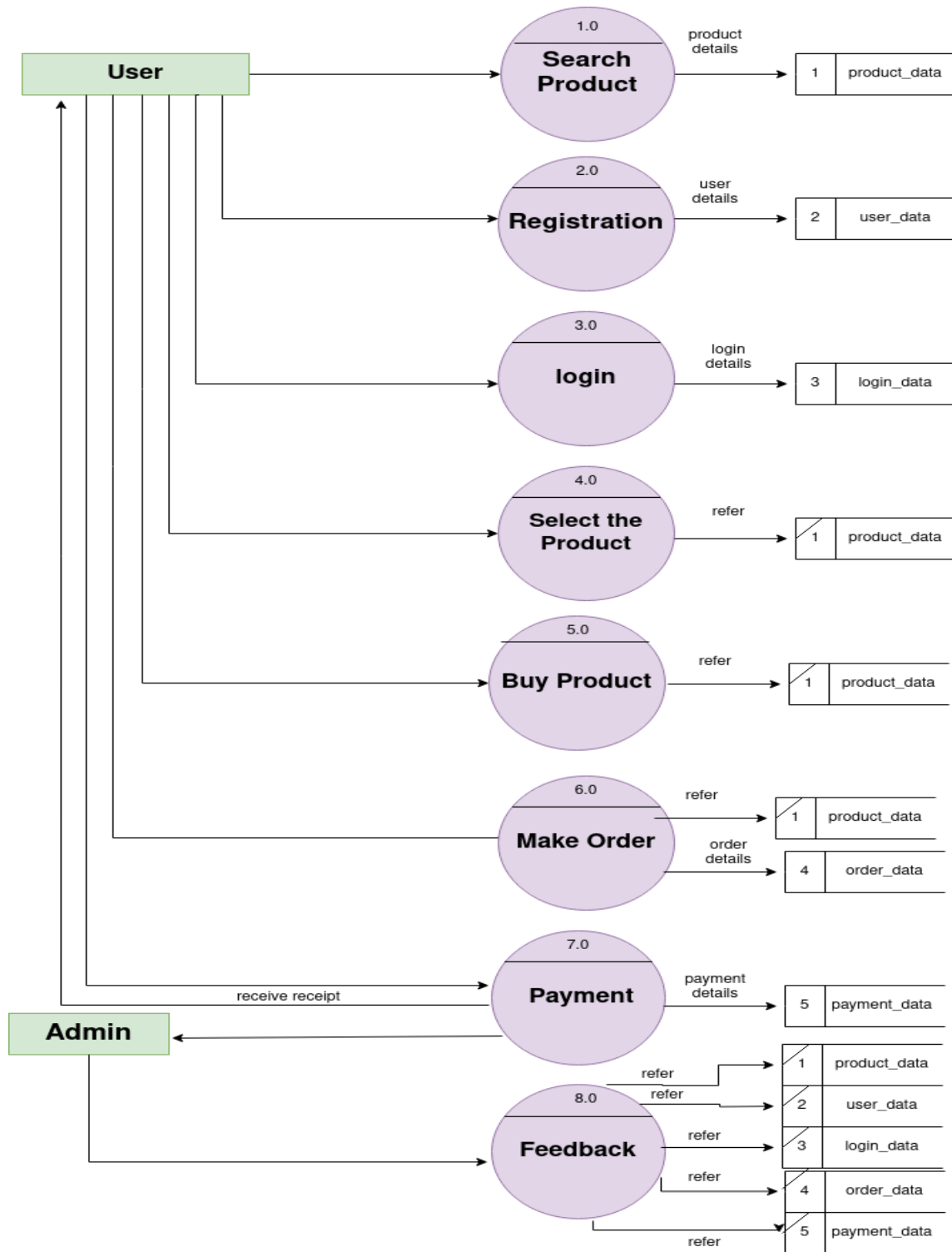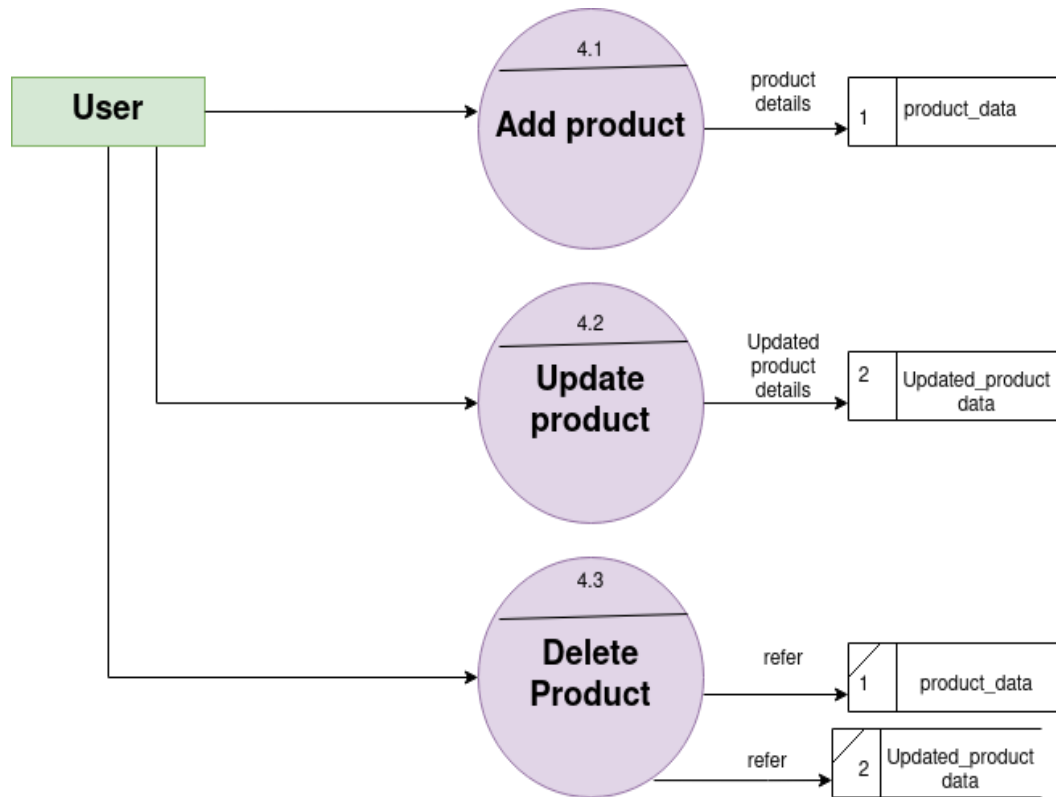Identify pain points and opportunities for improvement

ER DIAGRAM

Data Flow Diagram

Customer Management

Order Management

Login Management

Online Furniture Shop

Admin Management

Shopping Management

Payment Management

0 level DFD

User

- 1.0 **Search Product** → product details → `1 | product_data`
- 2.0 **Registration** → user details → `2 | user_data`
- 3.0 **login** → login details → `3 | login_data`
- 4.0 **Select the Product** → refer → `1 | product_data`
- 5.0 **Buy Product** → refer → `1 | product_data`
- 6.0 **Make Order** → refer → `1 | product_data`
  - order details → `4 | order_data`
- 7.0 **Payment** → payment details → `5 | payment_data`
  - receive receipt
- 8.0 **Feedback**
  - refer → `1 | product_data`
  - refer → `2 | user_data`
  - refer → `3 | login_data`
  - refer → `4 | order_data`
  - refer → `5 | payment_data`

Admin

1 level DFD

2 level DFD

CONCLUSION:

- Human errors are reduced.

- Data storage is done efficiently.

- Data retrieval is faster.

- This web application was successfully created and stored all furniture details ,offering details ,user details into the database using this application.

- The cost for maintenance is eliminated.

- Makes system user friendly.

ADVANTAGES:

- Provides up to date information

- It is fast, efficient and reliable.

- It minimizes the documentation relate works.

- Avoids data redundancy and inconsistency.

- Very user friendly.

- Easy accessibility of data.

- Provides more security and integrity to data.

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