

PROJECT REPORT ON

Online Furniture Shop

**SUBMITTED AS THE PARTIAL FULFILLMENT OF DEGREE OF
BACHELOR OF COMPUTER APPLICATION**

By

Patel Jimi Kumar Gopal

Bhai Exam No.:

Patel Gaurav Kumar Prakash

KumarExam No.:

Under the Guidance of

Mr. Shani Patel

ANAND COMMERCE COLLEGE, ANANDSARDAR PATEL

UNIVERSITY VALLABH VIDYANAGAR

YEAR: 2023-2024

Anand Commerce College



Certificate

This is to certify that Patel Jimi G. & Patel Gaurav P. of T.Y.B.C.A.(SEM-VI) Exam No.: Roll No.: 59,43 of Anand Commerce College, Anand has satisfactorily completed his project work during year 2023-24 as per the university curriculum and here with, it is to be submitted to S.P. University, Vallabh Vidhayanagar, for his final Examination.

Principal

PREFACE

It gives me great pleasure in placing in the handling of my esteemed faculties this individual report, which, I believe, Will go through the documentation of the project work done by me.

The objective of this report is to provide both a conceptual understanding of the system as well as working guidelines.

The need for software development today is a competence in G.U.I based front-end tools as far as the database programming is concerned. A typical scenario today involves an application consisting of a visual front-end for presenting data and reporting options to the enterprise user and a connection too database for piping data to the controls such as textboxes, tables etc.

As a student of BCA when I acquire all the theoretical knowledge, it is both necessary and advisable to acquaint the real situation through. Well-planned project in relevant fields. The project is important as the student not only learns to develop efficient real-world application but also gets a chance of self- development.

I have done a project **Online Furniture Shop** fulfilment of Bachelor of Computer Applications (BCA) program. Now a day, Internet is one of the best mediums for providing information to the students or Employees of any Educational Institutes or Organizations. There are Lots of manual efforts and processes that go into the keeping track on the user while accessing Internet, which consume a lot of time.

Online Furniture Shop efforts and hence brings significant gains in time. Aimed for providing the reader with easier and in knowledge of report contain the literature of almost all the things, which I have gone through from the point of view of any system development life cycle. An effort has been made of exhaustively deal with every part of the system developed.

ACKNOWLEDGEMENT

It gives me great pleasure and gratification to present my Project **Online Furniture Shop** which has been completed in Third Year B.C.A.

On this stage I would like to thank all people who were behind and along with me, and who constantly guided me during the time of difficulties I faced while developing this project.

First and foremost, I would like to thank the Teacher of **Anand Commerce College, Anand** to whom I'm highly indebted towards their invaluable contribution in making my project presentable and without them this project would have not been completed.

I am grateful to our project guide **Mr. Shani Patel** for the guidance, inspiration and constructive suggestions that helped us in the preparation of this project.

I am also thankful to our Head of The Department **Ms. Tanvi Desai** for her continuous guidance.

I am also obliged to our Principal **Dr. Vijaysinh M. Vanar** for creative support.

I am also pleased to receive all the facilities from our Management of **ACC**.

Jimi G Patel

Gaurav P Patel

Index

Sr. No.	Description of Topic	Page No.
1	Introduction	1
2	Scope Of Work	5
3	An Existing System	11
4	Need of Proposed System	15
5	Feasibility Study	18
6	System Features	22
7	Hardware and Software Requirements	27
8	Data Flow Diagram (DFD)	29
9	Database Layout/File Layout	35
10	Design of input & output Screen	43
11	Validation	52
12	Testing Procedures & Implementation Phases	55
13	Limitations	58
14	Proposed Enhancement	60
15	Conclusion	62
16	Bibliography	64

1. Introduction

An online furniture store makes people's shopping experience seamless and more convenient by offering them an array of furniture choices online, along with numerous styles, materials, and costs. Here, you can discover conventional furniture and sassy ones, too, by just tapping on your mobile screens right from the comfort of your home.

An online furniture store makes people's shopping experience seamless and more convenient by offering them an array of furniture choices online, along with numerous styles, materials, and costs. Here, you can discover conventional furniture and sassy ones, too, by just tapping on your mobile screens right from the comfort of your home.



An online furniture shop, also known as an e-commerce furniture store, is a digital platform that offers a wide range of furniture and home decor products for purchase over the internet. These virtual stores have gained immense popularity in recent years due to their convenience, extensive product selection, and the ability to browse and shop from the comfort of one's home.

The key components of an introduction to an online furniture shop might include:

- 1. Name and Brand Identity:** Start by introducing the name of your online furniture store and briefly describe its unique brand identity. Highlight any

Assemble Furniture Shop

Special features, such as a focus on eco-friendly furniture, modern design, or affordable pricing.

- 2. Product Range:** Provide an overview of the types of furniture and home decor products available on your website. Mention if you specialize in a particular style, era, or material, like contemporary furniture, vintage pieces, or sustainable materials.
- 3. Quality and Craftsmanship:** Emphasize the quality and craftsmanship of your furniture. Highlight any partnerships with reputable manufacturers or artisans known for their skill and attention to detail.
- 4. User-Friendly Interface:** Mention the ease of navigation and user-friendliness of your website. Explain how customers can easily search for products, filter by categories, and read detailed product descriptions.
- 5. Convenience and Accessibility:** Discuss the convenience of shopping for furniture online. Mention that customers can shop 24/7, from any location, and have their purchases delivered directly to their doorstep.
- 6. Customer Experience:** Highlight your commitment to providing an exceptional customer experience. Mention any customer support options, including live chat, email, or phone support, and your return and exchange policies.
- 7. Secure Transactions:** Assure customers that their online transactions are secure and their personal information is protected. Mention any security measures or certifications your website employs.
- 8. Delivery and Assembly Services:** If applicable, mention any delivery and assembly services you offer to make the process of getting furniture into customers' homes more convenient.
- 9. Reviews and Testimonials:** Share positive customer reviews and testimonials to build trust and credibility. This can reassure potential customers about the quality of your products and services.

10. Special Offers and Promotions: If you have ongoing promotions or discounts, mention them in your introduction to attract price-conscious shoppers.

11. Contact Information: Provide clear contact information, including email addresses, phone numbers, and physical addresses if you have physical showrooms or offices.

12. Social Media and Online Presence: Mention your presence on social media platforms and invite customers to follow you for updates, inspiration, and special offers.

In conclusion, the introduction of an online furniture shop should convey a sense of trustworthiness, emphasize the convenience of online shopping, and showcase the unique aspects that set your store apart from the competition. By doing so, you can attract potential customers and encourage them to explore your website and make purchases.

An online furniture shop that allows users to check for various furniture available at the online store and purchase online. The project consists of list of furniture products displayed in various models and designs. The user may browse through these products as per categories. If the user likes a product, he may add it to his shopping cart. Once user wishes to checkout, he must register on the site first. He can then login using same id password next time. Now he may pay through a credit card or cash on delivery. Once the user makes a successful transaction, he gets a copy of the shopping receipt on his email id. Here we use .net framework to make the entire frontend. The middle tier or code behind model is designed in c#. And SQL serves as a backend to store furniture lists and inventory data. Thus the online furniture shopping project brings an entire furniture shop online and makes it easy for both buyer and seller to make furniture deals.

2. Scope of Work

2.Scope of Work

Creating a comprehensive scope of work (SOW) for an online furniture shop involves outlining all the tasks, activities, and deliverables required to plan, develop, launch, and e-commerce platform. Here is a sample scope of work for an online furniture shop:

Project Overview:

The project aims to establish an online furniture shop that offers a wide range of furniture and home decor products to customers through a user-friendly and secure e-commerce website. The online shop will cater to a diverse customer base and provide a seamless shopping experience.

Project Objectives:

1. Develop a user-friendly e-commerce website for furniture and home decor products.
2. Create an extensive product catalog with detailed descriptions, images, and pricing.
3. Implement secure payment gateways and transaction processing.
4. Ensure responsive design for mobile and desktop users.
5. Incorporate search and filter functionality for easy product discovery.
6. Provide a secure and user-friendly checkout process.
7. Implement a customer management system with user accounts and order history.
8. Establish a secure and efficient inventory management system.
9. Enable customer reviews and ratings for products.
10. Incorporate SEO best practices for improved visibility in search engines.
11. Develop a marketing plan for website promotion.
12. Set up customer support channels (e.g., email, live chat, phone).
13. Establish a system for product shipping and delivery.

Project Scope:

1. Website Development:

- Select an e-commerce platform (e.g., Shopify, Woo-commerce) and setup the website.
- Customize the website design to align with the brand identity.
- Integrate a content management system for easy product updates.
- Implement responsive design for mobile and desktop devices.

2. Product Catalog:

- Create product listings with high-quality images and descriptions.
- Categorize products for easy navigation.
- Implement a search bar and advanced filtering options.

3. Payment and Checkout:

- Integrate secure payment gateways (e.g., PayPal, Stripe).
- Implement a secure and user-friendly checkout process.

4. User Accounts:

- Develop a customer registration system.
- Enable user account management and order tracking.

5. Inventory Management:

- Set up an inventory tracking system.
- Implement automated notifications for low stock items.

6. Customer Support:

- Provide multiple channels for customer support (e.g., email, live chat, phone).
- Train support staff on product knowledge and customer service.

7. Marketing and Promotion:

- Develop a digital marketing plan (e.g., SEO, social media, email marketing).
- Create promotional campaigns and discounts.

8. Shipping and Delivery:

- Establish partnerships with shipping and logistics providers.
- Implement a tracking system for order delivery.

9. Performance Monitoring:

- Regularly monitor website performance and security.
- Analyse user behavior and sales data for insights.

Project Timeline:

Provide a detailed timeline for the project, including milestones, deadlines, and dependencies. Include estimated time-frames for website development, product catalog creation, marketing campaigns, and other key activities.

Budget:

Specify the budget allocated for the project, including costs for website development, marketing, staffing, and ongoing maintenance.

Acceptance Criteria:

Define the criteria for project success and client acceptance, including a list of deliverables and their quality standards.

Roles and Responsibilities:

Clearly outline the roles and responsibilities of all parties involved in the project, including the client, project manager, web developers, designers, marketers, and customer support staff.

Change Management:

Include a process for handling change requests and modifications to the scope, along with associated costs and Time Creating a comprehensive scope of work (SOW) for an online furniture shop involves outlining all the tasks, activities, and deliverables required to plan, develop, launch, and manage the e-commerce platform. Here is a sample scope of work for an online furniture shop:

Project Overview:

The project aims to establish an online furniture shop that offers a wide range of furniture and home decor products to customers through a user-friendly and secure e-commerce website. The online shop will cater to a diverse customer base and provide a seamless shopping experience.

Project Objectives:

1. Develop a user-friendly e-commerce website for furniture and home decor products.
2. Create an extensive product catalog with detailed descriptions, images, and pricing.
3. Implement secure payment gateways and transaction processing.
4. Ensure responsive design for mobile and desktop users.
5. Incorporate search and filter functionality for easy product discovery.
6. Provide a secure and user-friendly checkout process.
7. Implement a customer management system with user accounts and order history.
8. Establish a secure and efficient inventory management system.
9. Enable customer reviews and ratings for products.
10. Incorporate SEO best practices for improved visibility in search engines.
11. Develop a marketing plan for website promotion.
12. Set up customer support channels (e.g., email, live chat, phone)

3. AN EXISTING SYSTEM

3.AN EXISTING SYSTEM

When you're dealing with an existing online furniture shop, documenting the system is crucial for various reasons, including maintenance, optimization, and potential future upgrades. Below, I'll outline the key components to consider when documenting an existing online furniture shop:

a. Overview of the Existing System:

- Provide a brief introduction to the online furniture shop, including its purpose, history, and key features.
- Mention any unique selling points or areas of specialization.

b. System Architecture:

- Describe the technical architecture of the system, including the web hosting platform, server infrastructure, and databases.
- Explain the technology stack used for web development, such as programming languages, frameworks, and content management systems.

c. User Roles and Permissions:

- Define the various user roles within the system (e.g., admin, customer, guest).
- Specify the permissions and access levels associated with each role.

d. Functionalities and Features:

- Provide an overview of the core functionalities and features of the online shop, such as:
 - Product catalog management
 - User registration and authentication
 - Shopping cart and checkout process
 - Payment processing and integration with payment gateways
 - Search and filter options
 - Product reviews and ratings

Assemble Furniture Shop

- Inventory management
- Order tracking and history
- Customer support and communication channels

e. Database Structure:

- Present the database schema, including tables and relationships.
- Explain how data is organized and stored in the system.

f. User Interface (UI):

- Include screenshots or descriptions of the user interface.
- Highlight any design elements, navigation menus, and user experience enhancements.

g. Third-Party Integrations:

- List and describe any third-party Integrations, such as payment gateways, shipping providers, analytics tools, and marketing platforms.

h. Security Measures:

- Detail the security measures in place to protect user data, including encryption, authentication, and authorization mechanisms.
- Mention any security audits or assessments conducted.

i. Performance and Scalability:

- Discuss the system's performance and scalability aspects.
- Describe any load balancing, caching, or CDN (Content Delivery Network) implementations.

j. Maintenance and Support:

- Explain the procedures and schedules for system maintenance, updates, and backups.
- List the contact information for technical support or maintenance teams.

k. Analytics and Reporting:

- Discuss how data is collected and analysed for basin When you're dealing with an existing online furniture shop, documenting the system is crucial for various reasons, including maintenance, optimization, and potential future upgrades. Below, I'll outline the key components to consider when documenting an existing online furniture shop:

4. Need of proposed System

4.Need of proposed System

When proposing a new system for an online furniture shop, it's important to clearly outline the reasons and objectives for the proposed changes. Here are some common needs and reasons for implementing a new or improved system for an online furniture shop:

i. Enhanced User Experience:

- Customers expect an intuitive, user-friendly interface when shopping online. A proposed system should aim to improve the overall user experience, making it easier for customers to browse products, make purchases, and navigate the website.

ii. Scalability:

- As the business grows, the existing system may face limitations in handling increased traffic, inventory, and customer data. A proposed system should be scalable to accommodate future growth without major disruptions.

iii. Mobile Responsiveness:

- With a significant number of users accessing websites via mobile devices, a responsive design is crucial. The proposed system should ensure a seamless experience on smartphones and tablets.

iv. Improved Product Management:

- An efficient product catalog management system is essential for adding, updating, and organizing furniture products. The proposed system should streamline product management processes and make it easier to showcase product details

v. Advanced Search and Filtering:

- Customers often rely on search and filter options to find specific furniture items. The proposed system should offer advanced search functionality and robust filtering options for better product discovery.

vi. Secure Payment Processing:

- Ensuring secure and reliable payment processing is essential for customer trust. The proposed system should integrate secure payment gateways and implement robust security measures to protect customer financial information.

vii. Marketing and Promotion:

- An effective marketing strategy is crucial for attracting and retaining customers. The proposed system should facilitate marketing efforts, including SEO optimization, email marketing, and promotional campaigns.

viii. Inventory Management:

- Efficient inventory management is essential to track product availability, prevent overselling, and manage stock levels. The proposed system should offer robust inventory management features.

ix. Customer Relationship Management (CRM):

- Building and maintaining strong customer relationships is vital. The proposed system should include CRM features to manage customer interactions, track order history, and provide personalized experiences.
- In summary, the proposed system for an online furniture shop should address existing shortcomings, enhance user experience, improve operational efficiency, and align with the goals of the business. Clearly articulating these needs and objectives is essential for securing support and resources for the project.

5. Feasibility Study

5. Feasibility Study

Conducting a feasibility study for an online furniture shop is a crucial step to assess the viability and potential success of the business venture. A comprehensive feasibility study should cover various aspects of the project to help stakeholders make informed decisions. Here's an outline of key areas to consider:

a) Market Feasibility:

- **Market Research:** Gather data on the furniture industry, including market size, growth trends, and customer demographics.
- **Target Audience:** Identify your target customer segments and their preferences.
- **Competition Analysis:** Analyse existing online furniture shops, their strengths, weaknesses, and market positioning.
- **Unique Selling Proposition (USP):** Define what will set your online furnitureshop apart from competitors.
- **Demand Analysis:** Estimate the demand for furniture products in your target market.

b) Technical Feasibility:

- **Website Development:** Assess the technical requirements for developing and maintaining an e-commerce website.
- **Technology Stack:** Choose the appropriate technology stack for website development.
- **Hosting and Infrastructure:** Determine the hosting and server infrastructure needed for the website.
- **Data Security:** Evaluate security measures to protect customer data and financial transactions.
- **Mobile Responsiveness:** Ensure the website is mobile-friendly.

c) Financial Feasibility:

- **Startup Costs:** Calculate the initial investment required for website development, inventory, marketing, and operational expenses.
- **Revenue Projections:** Estimate potential sales revenues based on market research and pricing strategies.
- **Expenses:** Detail ongoing operational costs, including staff salaries, marketing, and maintenance.
- **Profitability:** Prepare financial projections, including profit and loss statements, cash flow forecasts, and break-even analysis.
- **Funding Sources:** Determine how the project will be funded, whether through personal investment, loans, or external investors.

d) Legal and Regulatory Feasibility:

- **Legal Requirements:** Identify and understand the legal and regulatory obligations for e-commerce businesses, including business licenses, taxes, and consumer protection laws.
- **Data Privacy:** Ensure compliance with data protection and privacy regulations, such as GDPR (General Data Protection Regulation).

e) Operational Feasibility:

- **Business Processes:** Define the operational processes for managing product listings, orders, payments, and customer support.
- **Supply Chain Management:** Plan how you will source, manage, and deliver furniture products to customers.
- **Inventory Management:** Describe how inventory will be tracked and managed efficiently.
- **Customer Support:** Determine the customer support channels and staffing requirements.
- **Scalability:** Assess the system's ability to scale with increasing demand.

f) Marketing Feasibility:

- Marketing Plan: Develop a detailed marketing strategy, including SEO, socialmedia, email marketing, and advertising.
- Customer Acquisition: Estimate the cost of acquiring customers and the expected customer lifetime value.
- Conversion Rates: Project conversion rates for website visitors to customers.
- Branding and Positioning: Define your brand identity and how you will positionyour online furniture shop in the market.

g) Risk Analysis:

- Identify potential risks and challenges, such as market competition, supplychain disruptions, or technical issues.
- Develop risk mitigation strategies to address these challenges.

h) Conclusion and Recommendations:

- Summarize the findings of the feasibility study.
- Provide recommendations regarding whether to proceed with the online furniture shop project, modify the plan, or abandon it based on the analysis.

6. System Features

6. System Features

An online furniture shop requires a comprehensive set of features to ensure a seamless and user-friendly shopping experience for customers. Here are the essential system features for an online furniture shop:

1) User Registration and Authentication:

- User registration and login functionality to create and manage customer accounts.
- Social media login options for convenience.

2) Product Catalog:

- A well-organized catalog with categories and subcategories for easy product navigation.
- High-quality product images.
- Detailed product descriptions, including dimensions, materials, and care instructions.
- Product availability status (in stock, out of stock).
- Pricing and discount information.
- Product reviews and ratings.

3) Search and Filters:

- An advanced search bar for users to find products by keywords.
- Filter options based on criteria like price range, style, color, and material.

4) Shopping Cart:

- A shopping cart to allow users to add, view, and modify items before checkout.
- Display of total cart value.
- Option to save the cart for later.

5) Checkout and Payment:

- A secure and user-friendly checkout process with multiple payment options.
- Integration with payment gateways (e.g., credit/debit cards, PayPal, digital wallets).
- Billing and shipping address input.
- Order summary before payment confirmation.
- Real-time shipping cost calculation.

6) Order Management:

- Order confirmation emails with order details.
- Order history for customers to track past orders.
- Option to cancel or modify orders within a specific timeframe.
- Integration with inventory management to update product availability.

7) User Account Management:

- Customer profiles for managing personal information, shipping addresses, and payment methods.
- Password reset and account recovery options.

8) Product Reviews and Ratings:

- Allow customers to leave reviews and ratings for products.
- Display average product ratings and user-generated reviews.

9) Inventory Management:

- Real-time inventory tracking to prevent overselling.
- Low stock notifications for administrators.
- Automated restocking alerts.

10) Customer Support:

- Multiple contact channels (e.g., email, live chat, phone).
- Help center or FAQ section.
- Support ticket system for issue resolution and tracking.

11) Responsive Design:

- Ensure the website is responsive and functions well on mobile devices and various screen sizes.

12) Security Measures:

- SSL encryption for secure data transmission.
- Protection against fraud and cybersecurity threats.
- Secure storage of customer data.

13) Product Recommendations:

- Implement a recommendation engine to suggest related or complementary products to customers.

14) Analytics and Reporting:

- Integration with analytics tools to monitor user behavior, track sales, and gather insights for marketing and inventory management.

15) Marketing and Promotion:

- Eco-friendly product pages and content.
- Integration with email marketing tools for newsletters and promotional campaigns.
- Discount and coupon code management.

16) Social Media Integration:

- Sharing options for products on social media.
- Integration with social media profiles for updates and promotions.

17) Shipping and Tracking:

- Integration with shipping carriers for real-time shipping cost calculation.
- Shipment tracking for customers.

18) Returns and Refunds:

- Clearly defined return policies and procedures.
- Automated refund processing.

19) Wishlist and Favourites:

- Allow users to create wish lists or mark products as favourites for future reference.

20) Content Management:

- A content management system for adding, editing, and organizing product listings and other website content.

21) Internationalization and Localization:

- Support for multiple languages and currencies.
- Geo location-based content and pricing adjustments.

These features collectively contribute to creating a robust online furniture shop that attracts customers, provides a smooth shopping experience, and effectively manages inventory and customer interactions. Depending on your specific business goals and target audience, you may also consider additional features and customization options.

7. Hardware and Software Requirements

7. Hardware and Software Requirements

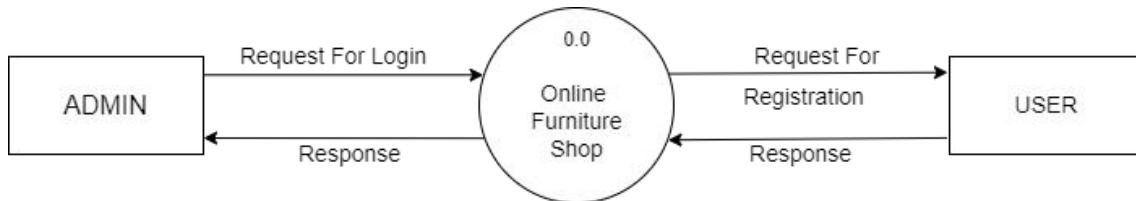
Hardware	
Items	Minimum value
CPU	INTEL CORE I5
RAM	512 MB
HARD DISK	40 GB

Software	
Front-end	HTML, CSS, JavaScript
Back-end	ASP.Net, MySQL, Database
Server	SQL Server

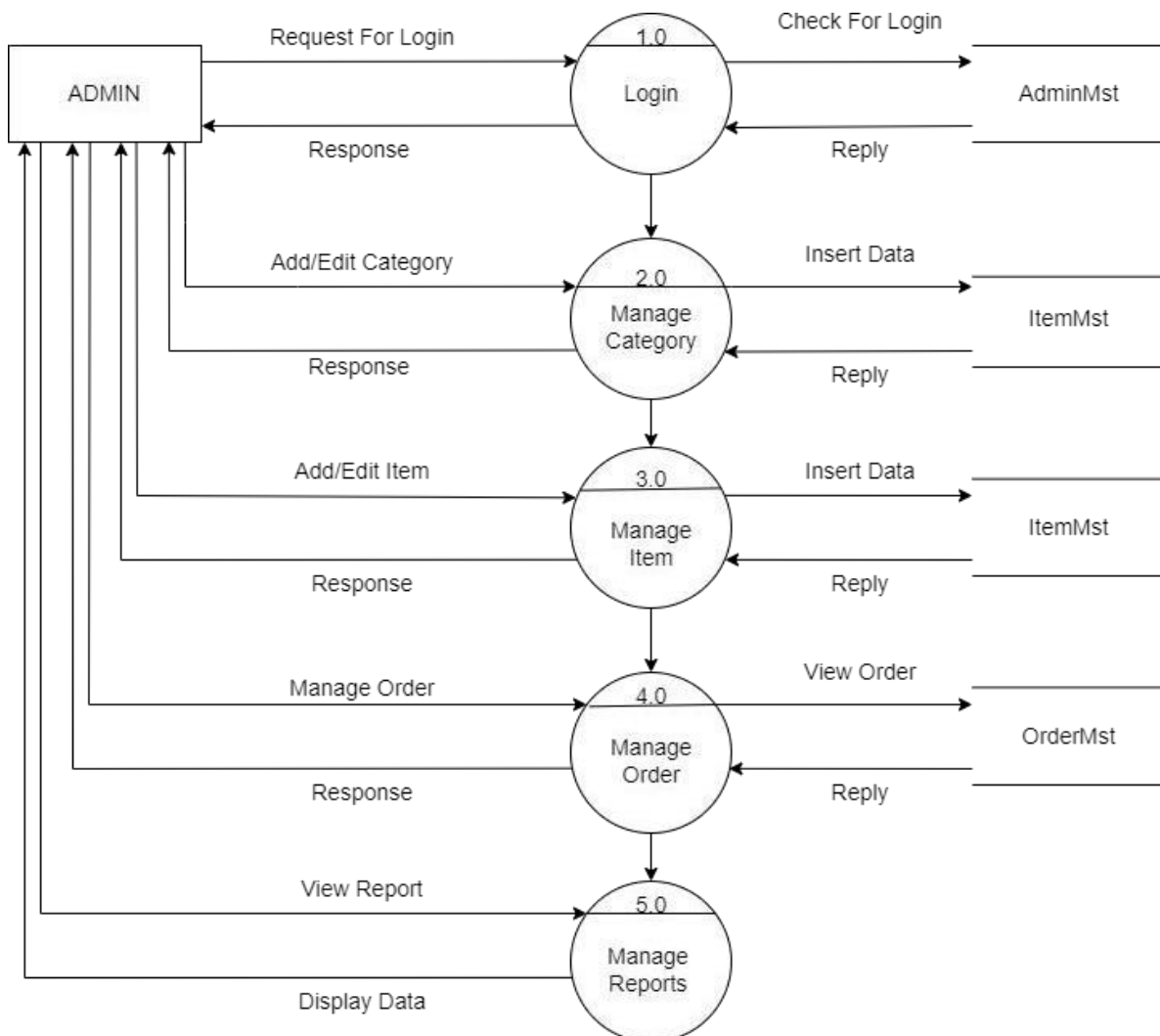
8. Data Flow Diagram (DFD)

8. Data Flow Diagram (DFD)

Context Level:

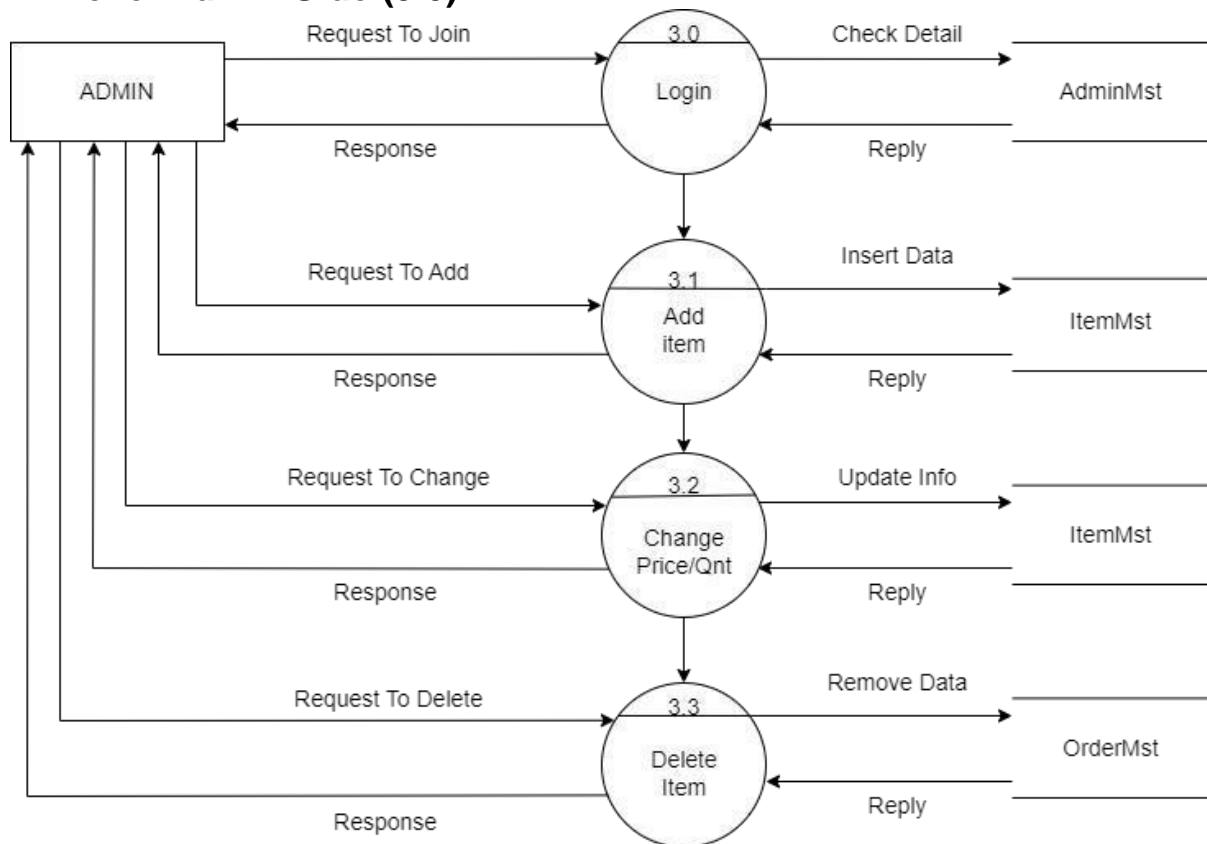


0 Level Admin Side:

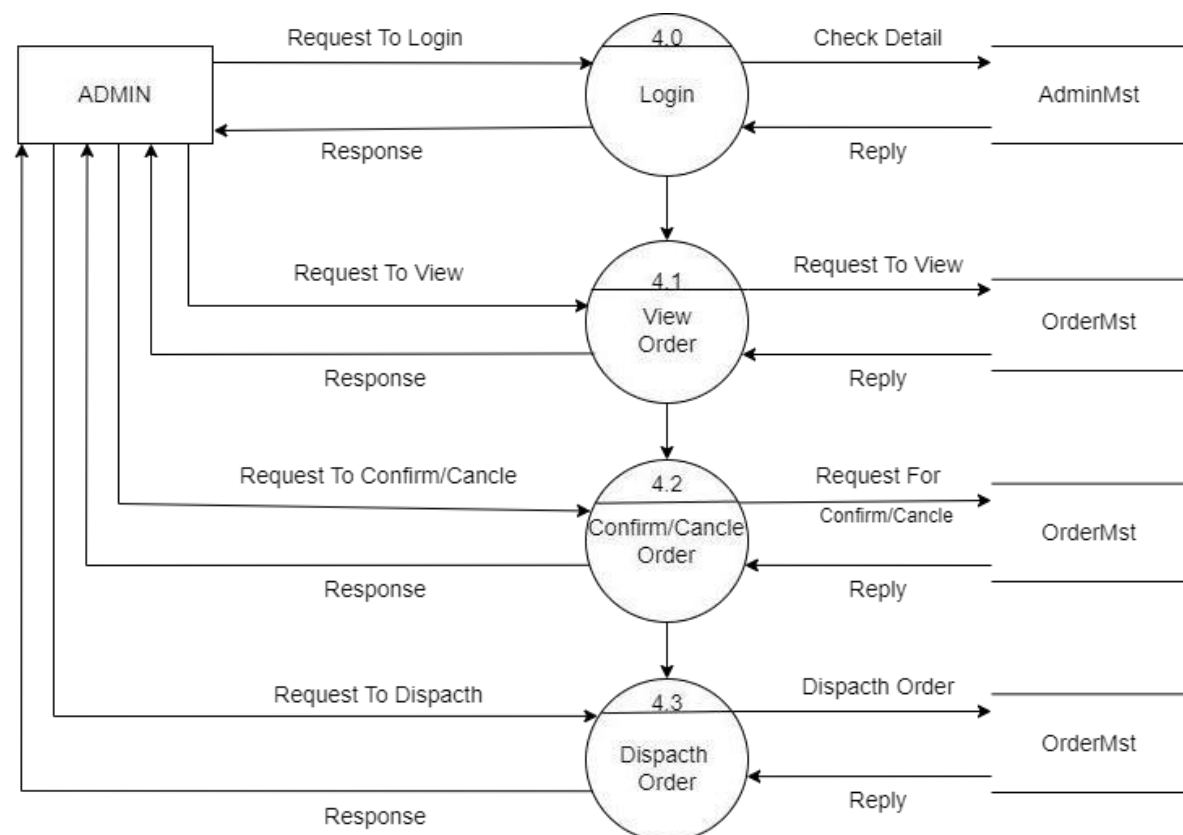


Assemble Furniture Shop

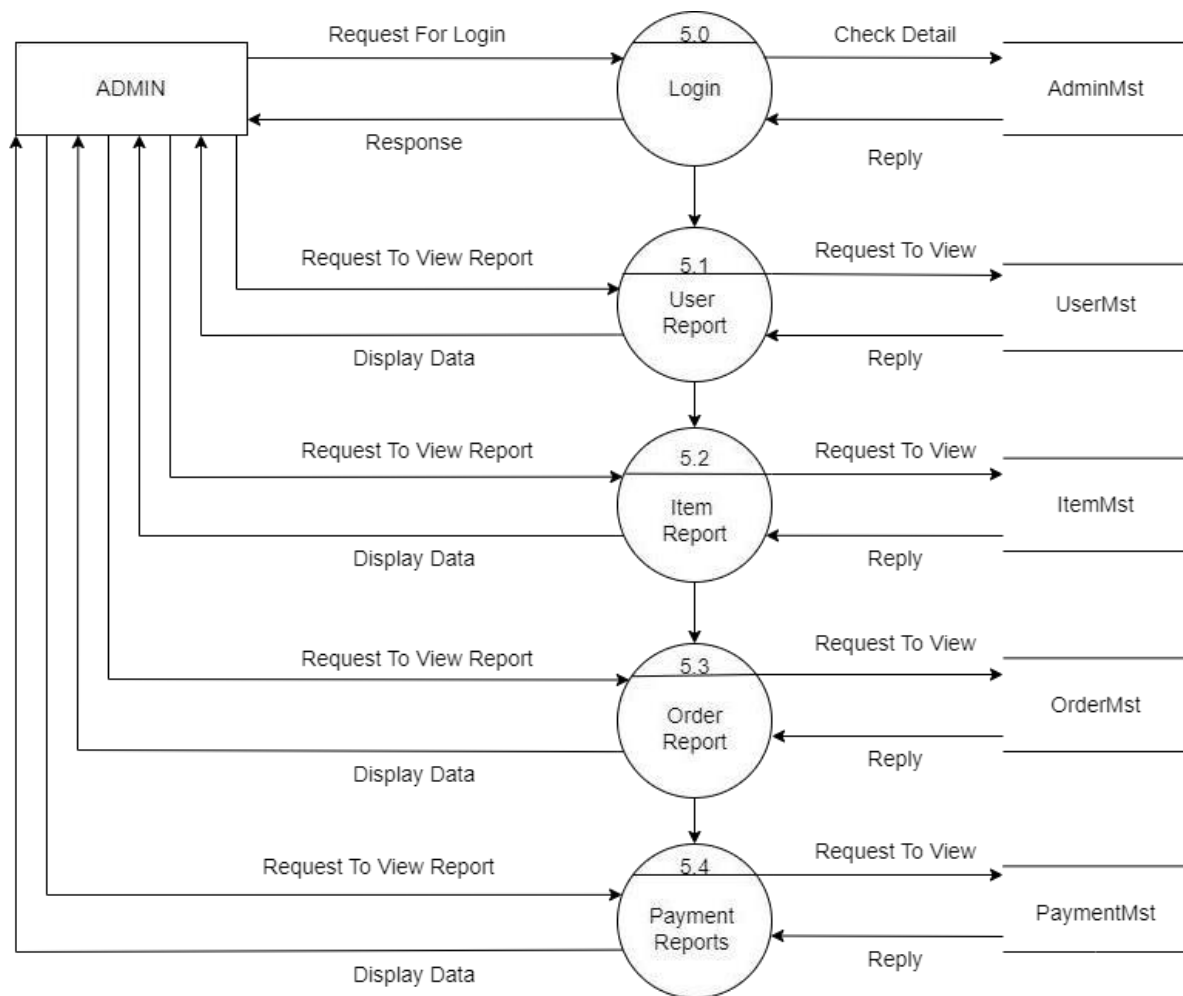
1st Level Admin Side (3.0) :



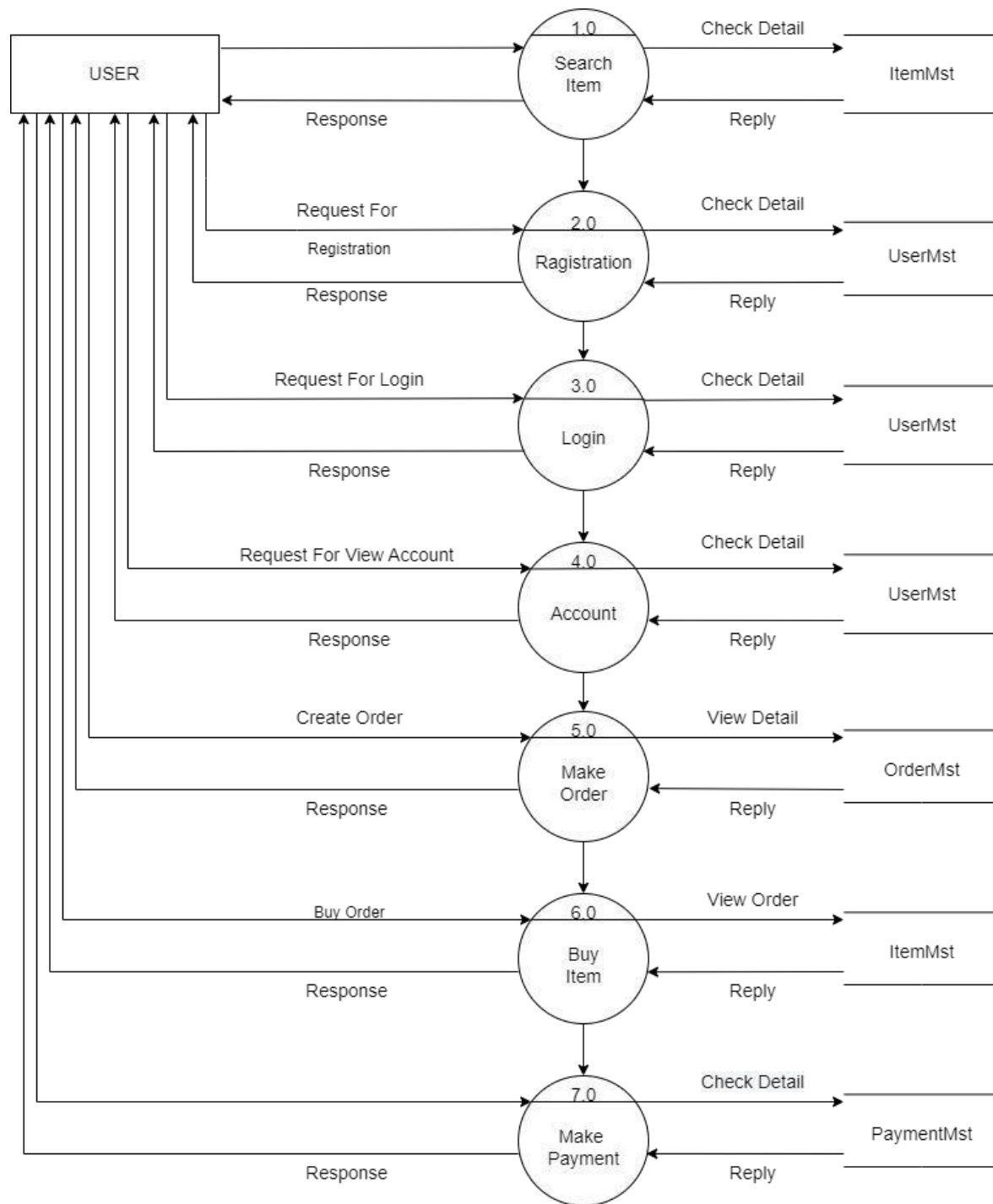
1st Level Admin Side (4.0) :



1st Level Admin Side (5.0) :

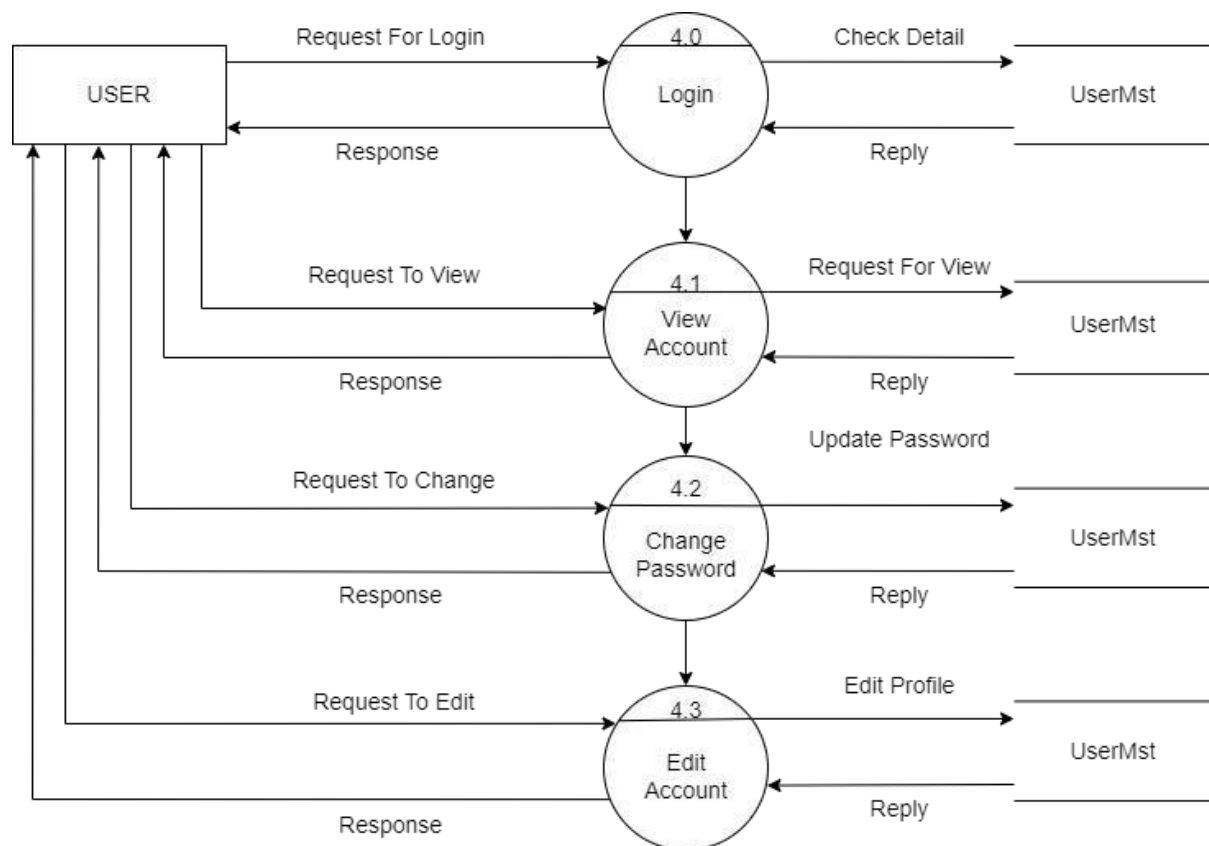


0 Level User Side DFD:

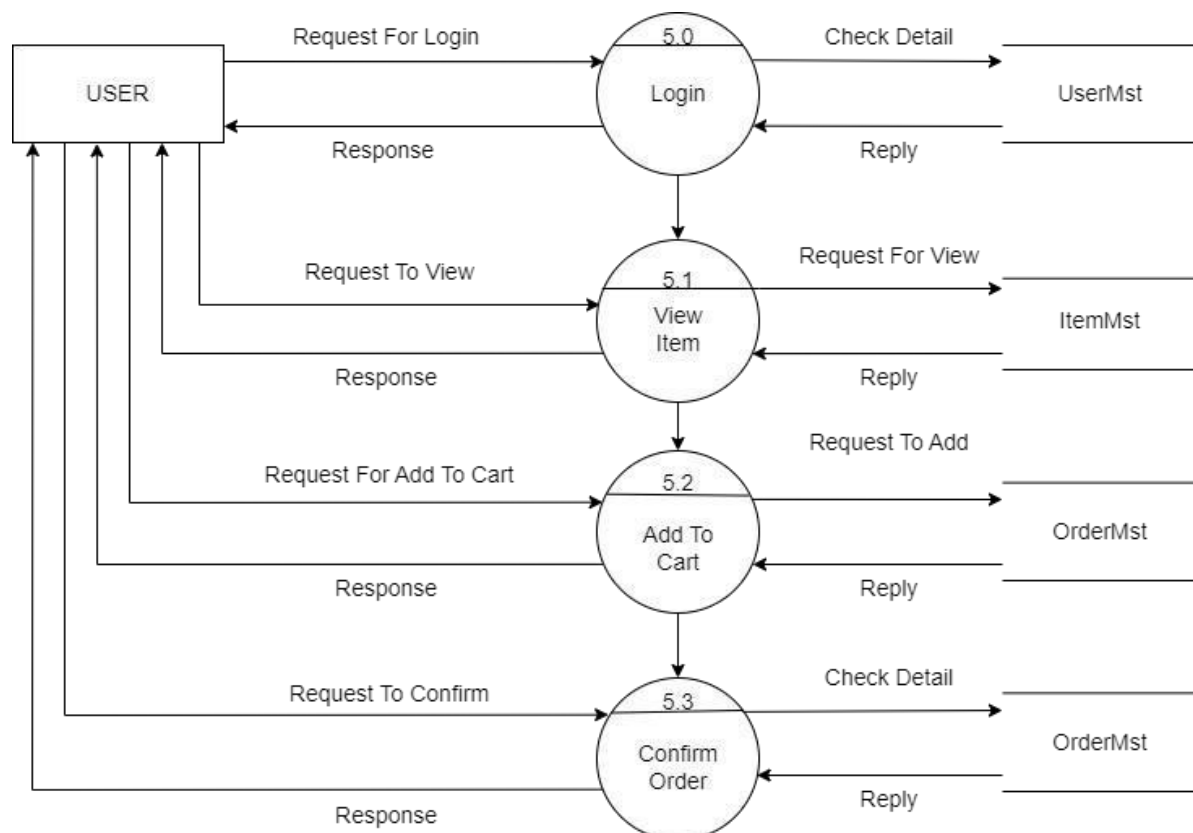


Assemble Furniture Shop

1st Level User Side (4.0) :



1st Level User Side (5.0) :



9. Database Layout/File Layout

9. Database Layout/File Layout

TABLE NAME: tblUser::

Column Name	Data Type	Key
Uid	int	primary key
Username	nvarchar(100)	Not null
Password	nvarchar(100)	Not null
FirstName	nvarchar(100)	Not null
LastName	nvarchar(100)	Not null
Address	nvarchar(100)	Not null
City	nvarchar(100)	Not null
Pincode	nvarchar(10)	Not null
Mobile	nvarchar(20)	Not null
Email	nvarchar(100)	Not null
Gender	nvarchar(50)	Not null
EntryDate	datetime	Not null
Usertype	nvarchar(50)	Not null

TABLE NAME:tblPurchase::

Column Name	Data Type	Key
PurchaseID	Int	primary key
UserID	Int	Foreign key (tblUser)
PIDSizeID	nvarchar(MAX)	Not null
CartAmount	money	Not null
CartDiscount	money	Not null
TotalPayed	money	Not null
PaymentType	nvarchar(50)	Not null
PaymentStatus	nvarchar(50)	Not null
DateOfPurchase	datetime	Not null
Name	nvarchar(200)	Not null
Address	nvarchar(MAX)	Not null
PinCode	nvarchar(10)	Not null
MobileNumber	nvarchar(50)	Not null

TABLE NAME:tblProduct::

Column Name	Data Type	Key
PID	int	primary key
PName	nvarchar(MAX)	Not null
PPrice	money	Not null
PSelPrice	money	Not null
PBrandID	int	Foreign key (tblBrands)
PCategoryID	Int	Foreign key (tblCategory)
PSubCatID	Int	Foreign key (tblSubCategory)
PDescription	nvarchar(MAX)	Not null
PProductDetails	nvarchar(MAX)	Not null
PMaterialCare	nvarchar(MAX)	Not null
FreeDelivery	int	Not null
RetIn30Day	int	Not null
COD	int	Not null

TABLE NAME:tblOrders::

Column Name	Data Type	Key
OrderID	int	primary key
UserID	int	Foreign key (tblUser)
EMail	nvarchar(MAX)	Not null
CartAmount	money	Not null
CartDiscount	money	Not null
TotalPaid	money	Not null
PaymentType	nvarchar(50)	Not null
PaymentStatus	nvarchar(50)	Not null
DateOfPurchase	datetime	Not null
Name	nvarchar(200)	Not null
Address	nvarchar(MAX)	Not null
MobileNumber	nvarchar(50)	Not null
OrderStatus	nvarchar(50)	Not null
OrderNumber	nvarchar(50)	Not null

TABLE NAME:tblOrderProducts::

Column Name	Data Type	Key
OrderProID	Int	primary key
OrderID	nvarchar(50)	Not null
UserID	Int	Foreign key (tblProducts)
PID	Int	Not null
Products	nvarchar(MAX)	Not null
Quantity	int	Not null
OrderDate	datetime	Not null
Status	nvarchar(100)	Not null

TABLE NAME:tblCart::

Column Name	Data Type	Key
CartID	int	primary key
UID	int	Not null
PID	int	Not null
PName	nvarchar(MAX)	Not null
PPrice	money	Not null
PSelPrice	money	Not null
SubPAmount		Not null
SubSAmount		Not null
Qty	int	Not null

TABLE NAME:tblSizes::

Column Name	Data Type	Key
SizeID	int	primary key
SizeName	nvarchar(500)	Not null
BrandID	int	Foreign key (tblBrands)
CategoryID	int	Foreign key (tblCategory)
SubCategoryID	int	Foreign key (tblSubCategory)

TABLE NAME:tblProductSizeQulity::

Column Name	Data Type	Key
PrdSizeQuantID	int	primary key
PID	int	Foreign key (tblProducts)
SizeID	int	Foreign key (tblSizes)
Quantity	int	Not null

TABLE NAME:tblSubCategory::

Column Name	Data Type	Key
SubCatID	int	primary key
SubCatName	nvarchar(MAX)	Not null
MainCatID	int	Foreign key (tblCategory)

TABLE NAME:Productimages::

Column Name	Data Type	Key
PIMGID	int	primary key
PID	int	Foreign key (tblProducts)
Name	nvarchar(MAX)	Not null
Extention	nvarchar(500)	Not null

TABLE NAME:tblCategory::

Column Name	Data Type	Key
CatID	int	primary key
CatName	nvarchar(MAX)	Not null

TABLE NAME:tblBrands::

Column Name	Data Type	Key
BrandID	int	primary key
Name	nvarchar(500)	Not null

TABLE NAME:ForgetPass::

Column Name	Data Type	Key
Id	nvarchar(500)	Not null
Uid	int	Foreign key (tblUser)
RequestDateTime	datetime	Not null

10. Design of Input & Output Screen

10. Design of input Screen

1) Login Form: -

Assemble

HomeAboutProducts ~SignUp

Login Form

UserNamejimi31

Password***

☐ Remember me

Login»

Create Account

[Forgot Password](#)

©2024 Assemble.in · Home>About>Contact·Products

[Admin Login](#) [Back to top](#)

2) Admin Form :-

Assemble

HomeAboutContact USProducts ~

Admin Login Form

Admin Idassemble

Password*****

☐ Remember me

Login

©2024 Assemble.in · Home>About>Contact·Products

[User Login](#) [Back to top](#)

3) Registration Form: -

Assemble

[Home](#) [About](#) [Products](#) [SignIn](#)

SignUp Form

UserName:

jimi

Password:

Confirm Password:

First Name:

jimi

Last Name:

patel

Address:

Anand

City:

anand

pincode:

254455

Mobile:

1212525288

Email:

pjimi1603@gmail.com

Gender:

Male

Entry Date:

16-Mar-2004

SignUp

Label

©2024 Assemble.in · [Home](#) [About](#) [Contact](#) [Products](#)

[Back to top](#)

4) Add to Cart :-

[Home](#)
[About Us](#)
[Blog-](#)
[Products -](#)

Cart **1**

Sign Out

My Cart (1 Item(s))

Oops! Quantity cannot be less than 1.

Kaiko King Size Bed in Wenge Finish with Box Storage, By Mintwud
Rs. 27856.00 Rs. 39999.00 Off Rs. 12143
Remove

Qty: - 1 +
SubTotal: Rs. 27856.00

Price Details

Total

Rs. 39,999.00

Cart Discount

- Rs. 12143.00

Cart Total

Rs. 27,856.00

BUY NOW

©2024 Assemble.in · [Home](#) · [About](#) · [Contact](#) · [Products](#)

Back to top

5) Buy :-

[Home](#)
[About Us](#)
[Blog-](#)
[Products -](#)

Cart **1**

Sign Out

Delivery Address

Name

guru patel

Address

mahelav

Pin Code

360006

Mobile Number

03625149820

PRICE DETAILS

Cart Total

Rs. 39,999.00

Cart Discount - Rs. 12143

Total

Rs. 27,856.00

Product ID	Product Name	Quantity
7	Kaiko King Size Bed in Wenge Finish with Box Storage, By Mintwud	1

6) Payment :-

Product ID	Product Name	Quantity
7	Kaiko King Size Bed in Wenge Finish with Box Storage, By Mintwud	1

Choose Payment Mode

COD

UPI

UPI ID:


Password:

Conform Password:

Place your order and Pay using our [Accepted Payments](#) channels, Your order will be dispatched upon receiving full payment.

Checkout »

7) Add product:-


Assemble

[Home](#)
[Add Product](#)
[Report](#)
[Manage Product](#)
[Sign Out](#)

glin Success, Welcom ASSEMBLE

Add Product

Proudct Name
Attractive Sectional Sofa Set Couch

Price
68999

SellingPrice
59999

Brand
Spacewood

Category
Sofa

SubCategory
Sofa

Size
3 seater

Quantity
3

Description
Couch 12 Seater for Living Room, Set of 21 Items,Upholstery-Suede Fabric Color-Dark Grey.

Product Details
Item Dimensions LxWxH 89 x 780 x 76 Centimeters

Materials and Care
Ideal for movie night or the big game. It includes armless & corner chair components, a pair of

Upload Image
Choose File S10.jpg

Upload Image
Choose File S11.jpg

Upload Image
Choose File S12.jpg

Upload Image
Choose File S13.jpg

Upload Image
Choose File S14.jpg

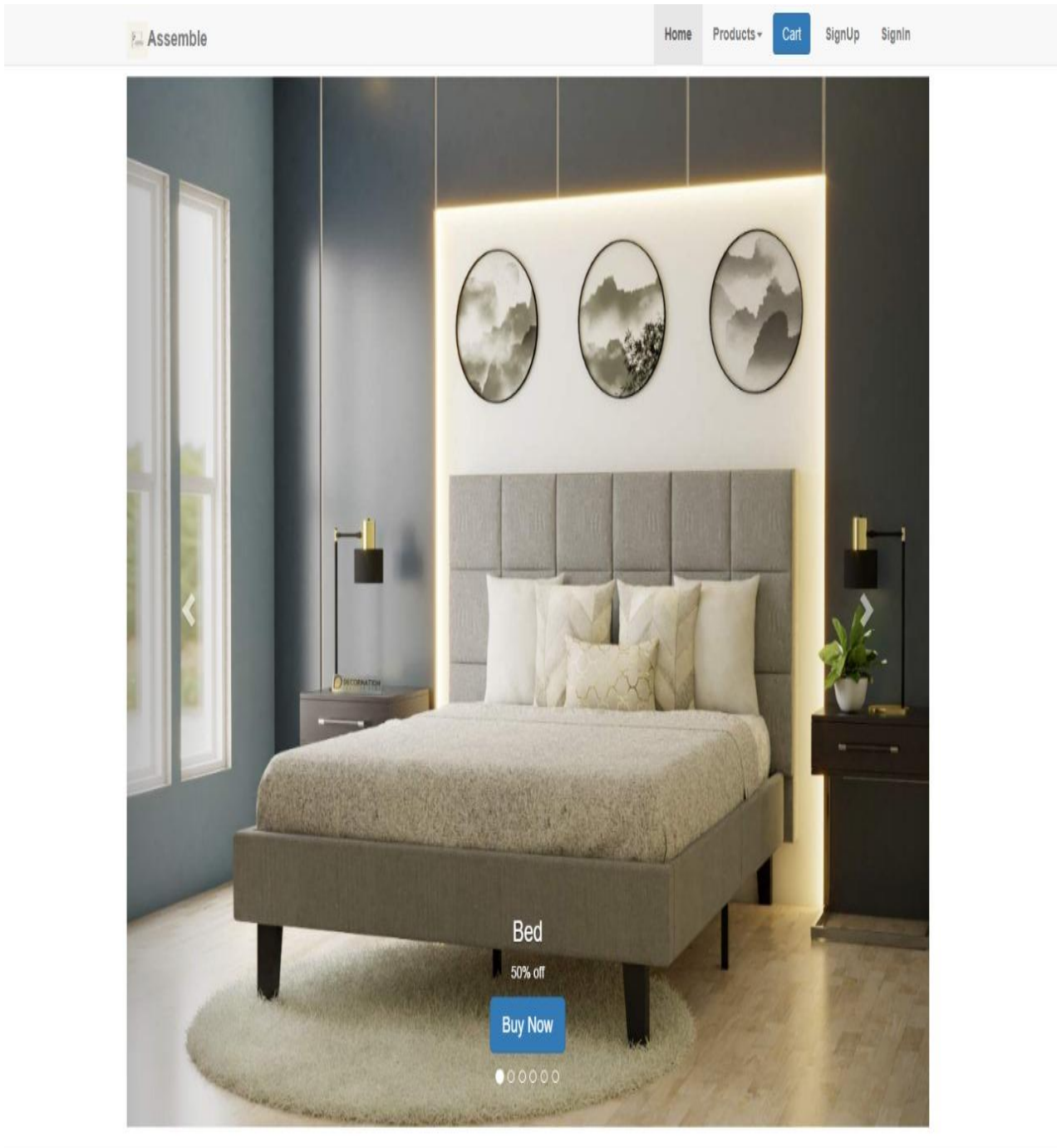
Free Delivery
☒

30 Days Return
☒

COD
☒

ADD Product

8) Home Page: -



Assemble Furniture Shop



Bed

Assemble offers luxury design and provides a shopping experience to match – meeting any possible customer needs with elegant solutions. Inspired by any interior idea, customers can use the Search with Photo option to find items of a similar style on the website..

[View More »](#)



Sofa

Assemble offers luxury design and provides a shopping experience to match – meeting any possible customer needs with elegant solutions. Inspired by any interior idea, customers can use the Search with Photo option to find items of a similar style on the website..

[View More »](#)



Chairs

Assemble offers luxury design and provides a shopping experience to match – meeting any possible customer needs with elegant solutions. Inspired by any interior idea, customers can use the Search with Photo option to find items of a similar style on the website..

[View More »](#)



Dining Table

Assemble offers luxury design and provides a shopping experience to match – meeting any possible customer needs with elegant solutions. Inspired by any interior idea, customers can use the Search with Photo option to find items of a similar style on the website..

[View More »](#)



Table

Assemble offers luxury design and provides a shopping experience to match – meeting any possible customer needs with elegant solutions. Inspired by any interior idea, customers can use the Search with Photo option to find items of a similar style on the website..

[View More »](#)



Wardrobe

Assemble offers luxury design and provides a shopping experience to match – meeting any possible customer needs with elegant solutions. Inspired by any interior idea, customers can use the Search with Photo option to find items of a similar style on the website..

[View More »](#)

BLACK FRIDAY DEAL



MINTWUD

Kaito King Size Bed in Wenge Finish with Box Storage, By Mintwud
39,999 ₹ **27,856.00** (12,143 off)



WOODSWORTH

Segur Sheesham Wood 8 Seater Dining Set In Provincial Teak Finish, By Woodsworth
97,899 ₹ **84,705.00** (13,194 off)



BOHEMIANA

Mexico Sheesham Wood Outdoor Table in Provincial Teak Finish, By Bohemiana
40,499 ₹ **8,822.00** (1,677 off)



SPACEWOOD

Kosmo Universal Sliding Door Wardrobe in Walnut Rigato Melamine Finish, By Spacewood
1,06,630 ₹ **94,117.00** (12,521 off)



WOODSWORTH

Antonio Fabric 3 Seater Sofa In Ash Grey Colour
54,699 ₹ **47,646.00** (7,053 off)



WOODSWORTH

Clint Sheesham Wood Arm Chair In Provincial Teak Finish
13,999 ₹ **10,999.00** (3,000 off)



SPACEWOOD

Kosmo Jude King Size Bed in Sheesham Finish with Box Storage
54,999 ₹ **37,099.00** (17,900 off)

Buy BED and get a gift card

9) Order Successfully :-

Congrats! Order Placed Successfully...

[Back To Products](#)

11.Validation

1) Required Field Validation:

Assemble

[Home](#) [About](#) [Products](#) [SignIn](#)

SignUp Form

UserName:

Enter Your UserName

Enter valid UserName

Password:

**

Confirm Password:

**

Enter the Same Password

First Name:

Enter First Name

Enter FirstNmae

Last Name:

Enter Last Name

Enter LastName

Address:

Enter Address

Enter valid Address

City:

Enter City

Enatr valid city

pincode:

Enter Pincode

Enter Pincode Number

Mobile:

Enter Mobile Number

Email:

sffdl

Enter valid Email

Gender:

Male

Entry Date:

16-Mar-2004

SignUp

Label

©2024 Assemble.in · [Home](#) · [About](#) · [Contact](#) · [Products](#)

[Back to top](#)

2) Pin code Validation:

Delivery Address

Name

This field is Required !

Address

This field is Required !

Pin Code

Please Enter Only six number

Mobile Number

This field is Required !

PRICE DETAILS

Cart Total

Cart Discount

Total

12. Testing Procedures & Implementation Phases

➤ **Testing Procedures:**

1) Unit Testing:

- Test individual components (classes, methods) of the application.
- Use testing frameworks like NUnit or MSTest.
- Ensure proper functionality of each unit.

2) Integration Testing:

- Test interactions between various modules or components.
- Verify that modules work together as expected.
- Focus on database interactions, APIs, and external services.

3) System Testing:

- Test the entire system as a whole.
- Check for end-to-end functionality.
- Perform tests including user authentication, cart management, ordering, and payment processing.

4) Performance Testing:

- Evaluate system performance under various loads.
- Measure response times, throughput, and resource usage.
- Use tools like Apache JMeter or Visual Studio Load Test.

5) Security Testing:

- Check for vulnerabilities such as SQL injection, cross-site scripting (XSS), and authentication flaws.
- Ensure data encryption and secure connections.
- Utilize tools like OWASP ZAP or Burp Suite.

6) User Acceptance Testing (UAT):

- Involve stakeholders or end-users to validate the system.
- Verify if the system meets business requirements and user expectations.
- Collect feedback for further improvements.

➤ **Implementation Phases:**

1) Requirements Gathering:

- Understand client needs and expectations.
- Document functional and non-functional requirements.
- Define user stories and use cases.

2) Design and Planning:

- Design system architecture, including database schema, application layers, and user interfaces.
- Plan development sprints and milestones.
- Allocate resources and define timelines.

3) Development:

- Write code following best practices and coding standards.
- Use ASP.NET framework for building web applications.
- Implement features such as product listing, searching, user authentication, shopping cart, and checkout.

4) Testing:

- Execute the testing procedures outlined above.
- Report and track bugs using issue tracking systems like Jira or Trello.
- Ensure comprehensive test coverage and address any issues found.

5) Deployment:

- Prepare the application for deployment to production servers.
- Configure web servers, databases, and other necessary infrastructure.
- Conduct deployment in a controlled manner to minimize downtime.

6) Maintenance and Support:

- Provide ongoing support and maintenance after deployment.
 - Monitor application performance and address any issues promptly.
 - Implement updates, patches, and new features as needed.
- Ensure documentation is created for each phase, detailing procedures, test cases, and implementation guidelines. This documentation helps in maintaining consistency and facilitating future enhancements or troubleshooting efforts.

13. Limitations

When documenting the limitations of an online furniture shopping ASP.NET application, you need to consider various aspects of the system, including technical constraints, user experience issues, and business limitations. Here are some key limitations to document:

❖ **Technical Limitations:**

1. Performance Issues:
2. Compatibility Challenges:
3. Security Risks:
4. Maintenance Complexity:

❖ **User Experience Limitations:**

1. Navigation and Search:
2. Product Visualization:
3. Checkout Process:

❖ **Business Limitations:**

1. Inventory Management:
2. Shipping and Logistics:
3. Customer Support:

14. Proposed Enhancement

To propose enhancements for an online furniture shopping ASP.NET application, you need to focus on improving user experience, adding new features, enhancing performance, and addressing any existing limitations. Here are some enhancement suggestions along with documentation considerations:

1. User Experience Enhancements:

- **Improved Navigation:** Implement a more intuitive navigation structure with clear categories and subcategories for furniture products.
- **Enhanced Search Functionality:** Integrate advanced search features such as filters by price range, material, color, style, and dimensions.
- **Responsive Design:** Optimize the application for various devices, ensuring seamless user experience across desktops, tablets, and mobile phones.

2. Performance Optimization:

- **Caching Mechanisms:** Implement caching strategies to improve page load times and reduce server load, especially for frequently accessed content.
- **Content Delivery Network (CDN):** Utilize CDN services to distribute static assets such as images and stylesheets closer to users, reducing latency and improving overall performance.
- **Lazy Loading:** Implement lazy loading techniques to defer the loading of non-essential content until it's needed, improving initial page load times.

3. Security Enhancements:

- **HTTPS Implementation:** Ensure the entire application is served over HTTPS to encrypt data transmitted between the client and server, enhancing security.
- **Security Audits and Penetration Testing:** Conduct regular security audits and penetration tests to identify and address vulnerabilities proactively.
- **Two-Factor Authentication:** Offer optional two-factor authentication for user accounts to add an extra layer of security against unauthorized access.

15. Conclusion

In conclusion, enhancing an online furniture shopping ASP.NET application requires a comprehensive approach that addresses user experience, functionality, performance, security, and documentation. By carefully considering the needs of both users and stakeholders, the application can evolve into a more robust and user-friendly platform. Here's a summary of the key points:

- i) **User Experience Improvement:** Enhance navigation, search functionality, and product visualization to provide a seamless and engaging shopping experience.
- ii) **Feature Additions:** Introduce new features such as virtual room planners, customer reviews, wishlists, and personalized recommendations to enrich user interactions and increase customer satisfaction.
- iii) **Performance Optimization:** Implement caching, content delivery networks, and lazy loading techniques to improve page load times and overall system performance.
- iv) **Security Enhancements:** Strengthen security measures by implementing HTTPS, conducting security audits, and offering two-factor authentication to protect user data and ensure trust.
- v) **Documentation Considerations:** Document detailed specifications, design mockups, implementation roadmaps, testing plans, and user guides to facilitate communication, collaboration, and understanding among stakeholders and development teams.

16. Bibliography

- www.google.com
- www.youtube.com
- www.Draw.io