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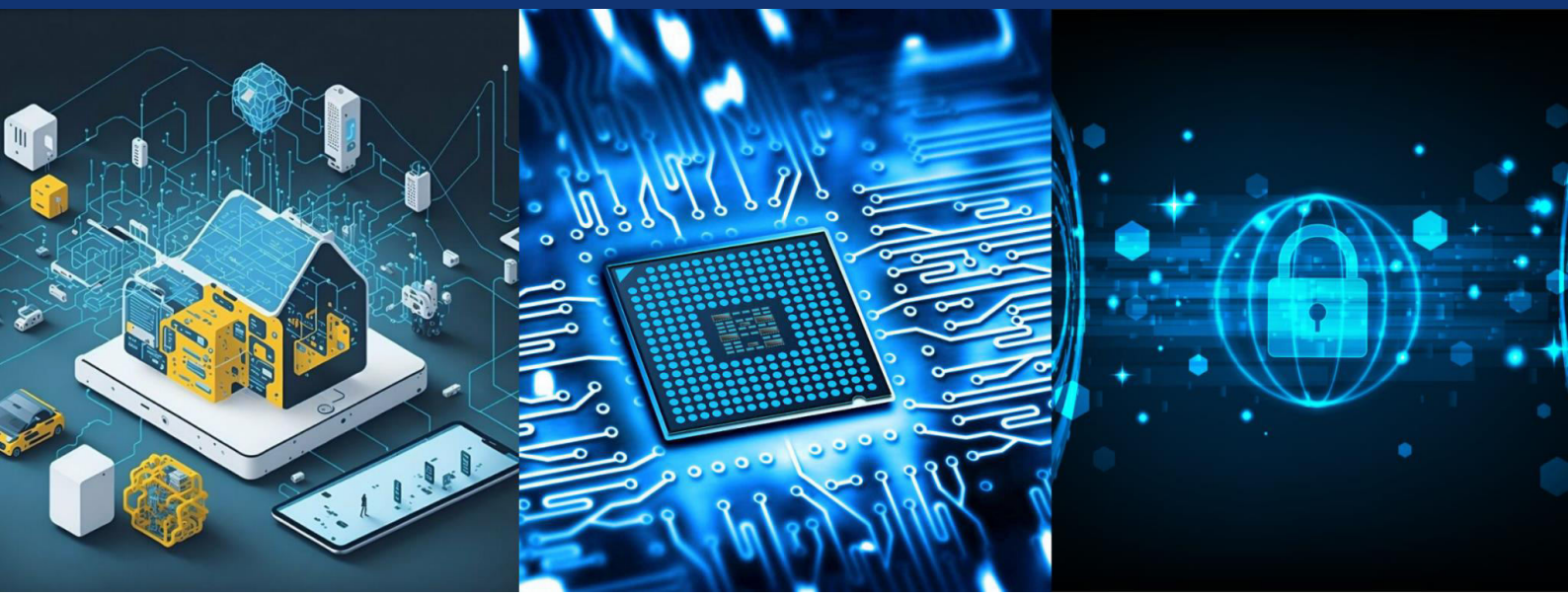

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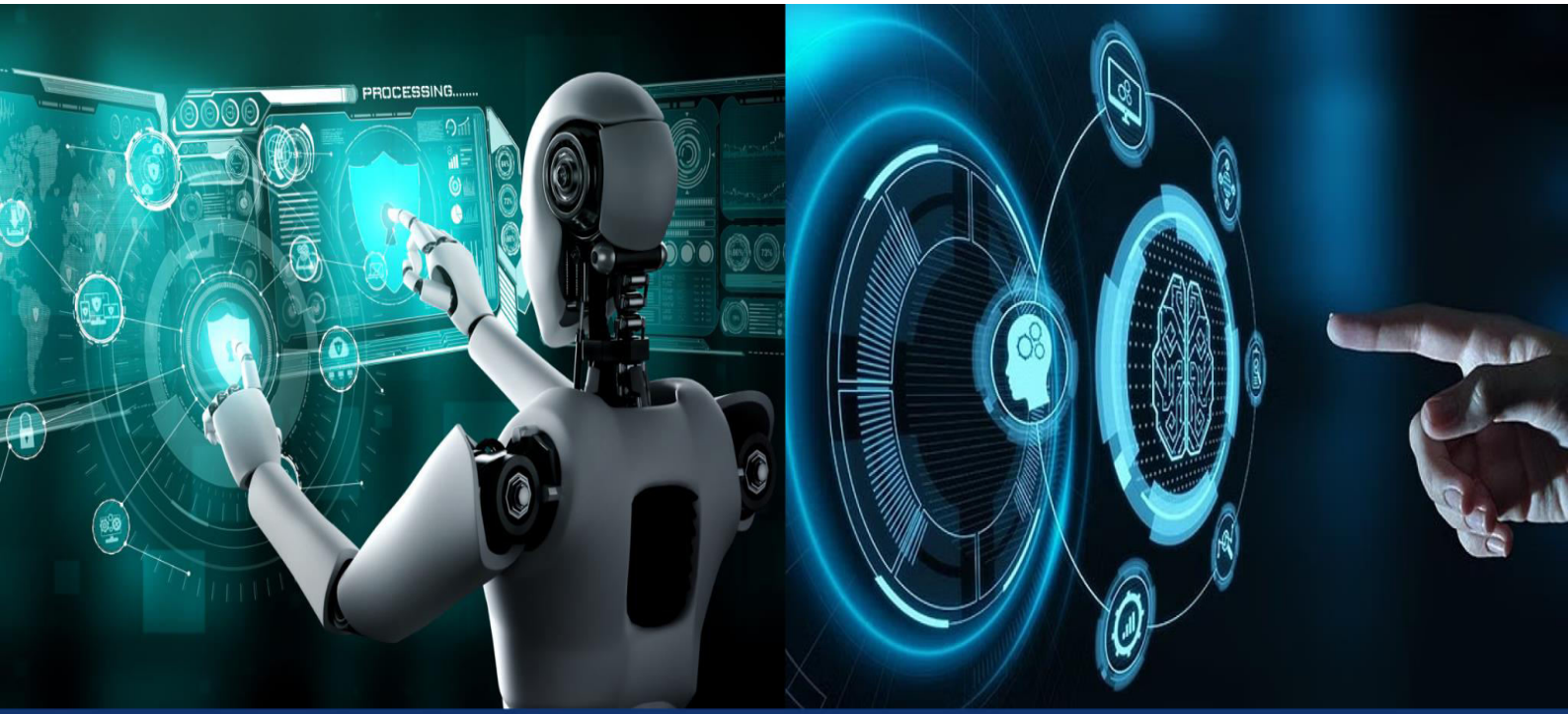

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Online Furniture Shop Management System

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ABSTRACT: The Furniture Shop Management System (FSMS) is designed to streamline the operations of a furniture retail business by automating and managing various functions such as inventory management, sales tracking, customer management, and billing. The system aims to improve the efficiency of managing furniture products, customer orders, and financial transactions in a single integrated platform. Key features include product catalog management, where store owners can add, update, and track the stock of various furniture items. It allows customers to view available products, place orders, and track the status of their orders. The system also handles invoicing, enabling the generation of detailed sales invoices, and helps in managing customer details and order history. The system also generates reports for sales analysis and stock management, assisting business owners in making data-driven decisions to optimize inventory levels, predict demand, and improve overall business performance. This solution is expected to reduce human errors, enhance customer satisfaction, and provide a smooth and seamless experience for both customers and store owners. The FSMS is designed to be user-friendly, secure, and scalable, with the flexibility to accommodate the growth of a furniture shop.

I. INTRODUCTION

A Furniture Shop Management System (FSMS) is an integrated software solution designed to automate and simplify the day-to-day operations of furniture retail businesses. The system aims to enhance efficiency by streamlining tasks such as inventory management, customer orders, sales tracking, billing, and reporting. With the ever-increasing complexity of business operations, particularly in the furniture industry, it has become crucial for store owners to adopt technology that not only improves operational efficiency but also enhances the customer experience. The Furniture Shop Management System acts as a centralized platform that enables store owners and employees to manage product inventories, track customer orders, generate invoices, and maintain detailed customer records. By doing so, it eliminates the need for manual tracking and minimizes human error. The system ensures that the store maintains optimal stock levels, prevents stockouts, and improves overall decision-making through real-time data and analytics. Customers can benefit from an organized and user-friendly interface, allowing them to easily browse through product catalogs, place orders, and check the status of their purchases. Additionally, the system supports generating accurate sales reports, which help store owners monitor performance, evaluate trends, and make informed business decisions. The Furniture Shop Management System is built to be scalable, secure, and customizable, making it adaptable to businesses of all sizes and capable of supporting future growth. By implementing this system, furniture retailers can improve their operational workflows, enhance customer satisfaction, and achieve higher profitability in a competitive market.

II. AIMS AND OBJECTIVES

Although most of the visit to his location or place now follow to computerized online Furniture Shop Management System but most of the other owners still follow conventional paper-based transections still now. That is not an easy way. May be the online shop is very easy process. So, to develop a management system will be managed different things in a single way. Login System both that means Admin and User. Administrator can manage information about all Details or data. Administrator can manage orders about product and Deals. This system has User friendly interface. It has Less load on Administration. System have Fast access to database. Easy to update and delete. Easy to and data for administrator. Password Protection.

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Modules Of The System

Furniture Shop Management System (FSMS) Divided in Two modules:

- Admin
- User

Admin Features-

- Add/Update/Delete Products – Manage product details like name, description, price, and images.
- Manage Product Categories – Organize products into categories (e.g., living room, bedroom).
- Stock/Inventory Management – Track inventory levels with low-stock alerts.
- View/Update Order Status – Track orders (pending, shipped, delivered, canceled) and update statuses.
- Manage Returns/Refunds – Approve or process product returns and refunds efficiently.
- Manage Customer Queries – Handle customer complaints, questions, and feedback.
- View Payment Transactions – Monitor payments.

Students Features-

- User Registration & Login – Secure account creation and access.
- View Product Details – See detailed info like price, dimensions, material, and images.
- Online Order Placement – Place orders with multiple payment options.
- User Profile Management – Edit personal info, address, and view order history.
- Customer Reviews & Ratings – Leave feedback of products.
- Secure Payment Integration – Safe and reliable payment processing.
- Customer Support – Contact helpdesk or chat for assistance.

III. LITERATURE SURVEY

A Furniture Shop Management System is a software solution designed to streamline the operations of a furniture store, including inventory management, sales tracking, customer management, and billing. Various studies and research papers have highlighted the importance of such systems in improving efficiency, reducing manual workload, and enhancing customer experience. Traditional furniture stores rely heavily on manual record-keeping, which can lead to errors, inefficiencies, and customer dissatisfaction. According to research, implementing a digital management system can improve order processing, reduce stock discrepancies, and automate sales transactions, leading to better business performance. Modern furniture management systems include features such as inventory tracking, customer relationship management (CRM), sales reporting, and integration with online platforms. Studies suggest that automation of these processes enhances accuracy and reduces operational costs . Additionally, cloud-based solutions provide real-time data access and scalability for business growth. The adoption of a Furniture Shop Management System significantly enhances business operations by improving efficiency, reducing errors, and ensuring better customer service. Future advancements may integrate artificial intelligence and machine learning for demand forecasting and personalized customer recommendations. This literature review emphasizes the role of technology in modernizing furniture store operations, making them more efficient and customer-friendly.

IV. EXISTING SYSTEM

The Maintenance of the details in a furniture retail outlet has become a more complicated task. Because the data and customer are in high level. This information's in furniture retail sector is done by the managers and staffs manually which is a difficult process. At present all records are maintained in Excel sheet format. It is initial stage so parallel computerization is take place. The furniture information was processes maintained in work sheets format for its ledgers and files. This will have a lot of confusion in future references and producing report.

➢ DRAWBACKS OF EXISTING SYSTEM

- High labor cost
- No Secrecy
- The data are maintained manually in a not efficient manner
- Accessing of information in very slow
- Frauds cannot be easily identified.

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- Cash Collection and Processing are difficult one.

V. PROBLEM STATEMENT

Inaccurate inventory tracking leading to overstocking or stockouts. Slow billing and invoicing processes causing delays in customer service. Difficulty in maintaining customer and supplier records, leading to poor relationship management. Lack of sales analytics and reports, making business decisions less data-driven. Increased human errors in record-keeping and transaction processing. To address these challenges, an automated Furniture Shop Management System is needed to improve efficiency, accuracy, and overall business management.

Requirement Analysis

To run the software we must have certain hardware & software installed on our computer. The minimum system requirements includes: -

- Software Requirements:-
  - JDK 1.8
  - Net Beans IDE 7.2
  - Glassfish
  - MYSQL Server (5.5 or later)
  - Operating System :- Windows-7 or Later
- Hardware Requirements:-
  - Intel Dual Core or Higher Processor.
  - RAM -2GB or Above
  - Hard Disk -20 GB Minimum
  - 1 Keyboard & Mouse
- Front End :-
  - JSP, HTML, JAVA, Bootstrap
- Back End :-
  - MYSQL 5.5 or Later

VI. MOTIVATION

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. ow he may paythrough 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 html, CSS, JavaScript. 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.

Proposed System

This project titled “Online Furniture Shop Management System” has been aimed to design and computerized system that can handle various activities are been carried out for customer by the sales team at the furniture sales unit. In this application, activities in the furniture shop are carried out systematically. In the existing system all the activities and record maintenance of the furniture showroom are done manually by the manager and staffs. The proposed system will help them to manage day to day operation very smoothly. It is having different modules to pull fill the requirement of the organization. The user is given necessary guideline so that even a person with least computer interlay will able to entry the transactions. This Project will be developed to meet the following requirements.

- FEATURES
  - The required information can be shared easily.

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- Time will not be wasted in the process.
- Frauds can be avoided and prevented.
- Cash Collection and Payment are done transparently.
- Good Guidance.
- Efficient Monitoring Mechanism.
- Leads to fast completion of work.

Skill Model

The application will be developed in the form of a database, using a Database Management System (DBMS). The decision to implement the application in the form of a database was informed by the consideration that various types of data would need to be held, and a database approach would be more appropriate due to the advantages that the database file system has over other forms of file systems. A database management system permits organizations to efficiently create databases for will be used to create the database tables, a Scripting language to communicate with and manipulate the database. The primary features of the JavaScript are that it is object-oriented and a cross-platform language. By cross platform, it means that the programs can run across several platforms.

Implementation

Several open source tools, Programming Languages and Database have been used here to complement and improve this system.

- NetBeans IDE
- MySQL as web server Database

VII. DATABASE

MySQL, is an open-source relational database management system used for storing data.

PROGRAMMING LANGUAGE

- CSS, Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language like HTML.
- HTML, Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser.
- Bootstrap, contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.
- JavaScript, Used for Animations and login authentication and session management.
- Some online 3rd party resources are used to get the job done.

Advantages

- Easy to generate report for any transaction.
- It is very much faster than manual system.
- Easy and fastest record finding technique.
- It is very much flexible to work.
- Man power required is very less.
- Data can be stored for a longer period.
- Helps furniture shops to automate furniture selling online.

VIII. METHODOLOGY

The application will be developed in the form of a database, using a Database Management System (DBMS). The decision to implement the application in the form of a database was informed by the consideration that various types of data would need to be held, and a database approach would be more appropriate due to the advantages that the database file system has over other forms of file systems. A database management system permits organizations to efficiently create databases

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Methods Of Data Collection

We provide a comprehensive Furniture Shop Database, connecting customers with reputable and trusted furniture retailers, wholesalers, and manufacturers. Our database features a vast directory of furniture suppliers, showcasing their product catalogs, pricing, and contact information. With advanced search filters and real-time updates, users can easily find and compare furniture options, including home, office, outdoor, and custom designs. Our Furniture Shop Database covers a wide range of styles, materials, and brands, ensuring that homeowners, interior designers, and businesses can find the perfect furniture solutions to meet their needs, budget, and aesthetic preferences**.**

Requirement Analysis

Online Furniture Shop Management system (FSMS) is a web platform for any Indian person, where they can easily choose any furniture which it's like and then its booked. In this platform there are two actors:

- Admin
- User

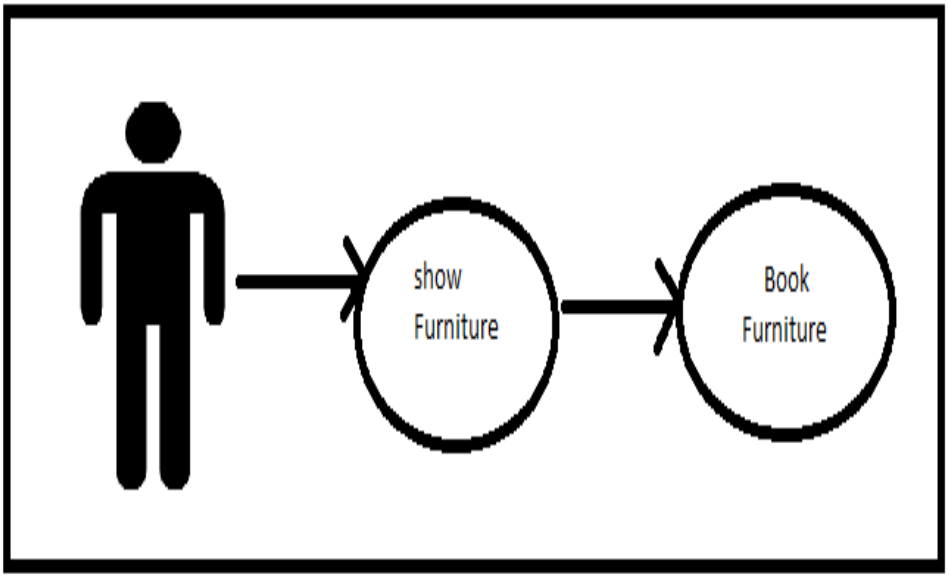
Process Requirement

The following process requirement have been recognized for the system.

- A valid login is required for playing out the entire of the features.
- Administrator can edit product information to the database.
- Administrator can add/update/delete whole system features.

Use Cases

- **STUDENT USE CASE DIAGRAM:**



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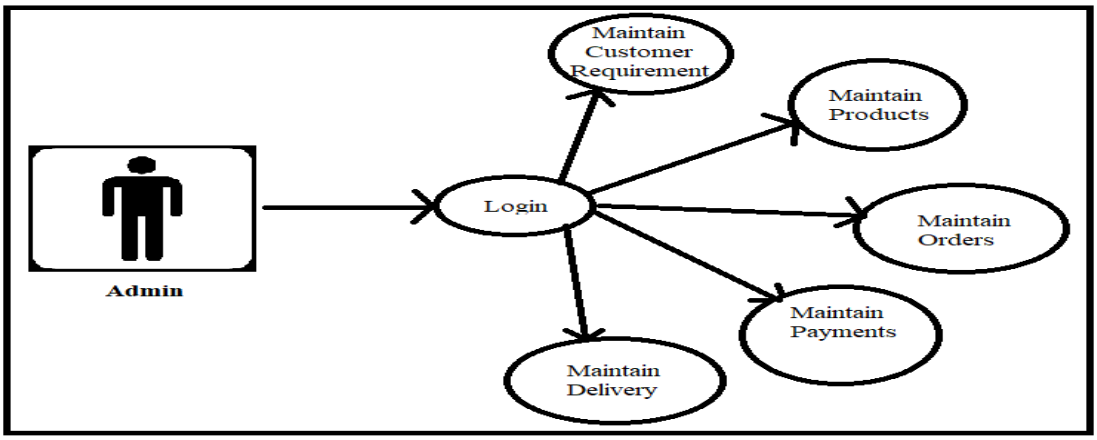
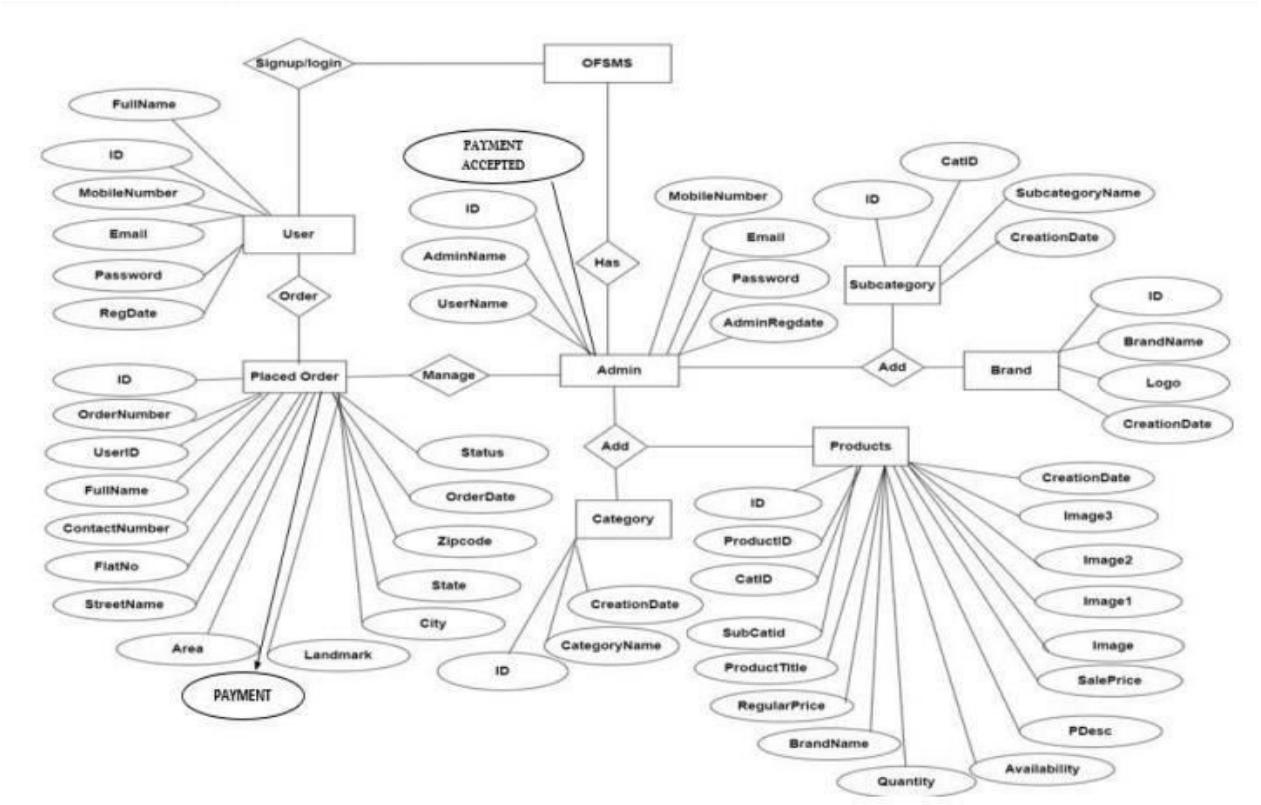
- **ADMIN USE CASE DIAGRAM:**



ENTITY RELATIONSHIP DIAGRAM(ERD)

Entity Relationship Diagram (ERD) shows the relationship of element sets put away in an information base. ER Diagram in database engineering guarantees to produce high-quality database design to use in database creation, management, and maintenance. An element in this setting is an item, a part of information. An element set is an assortment of comparable elements. These elements can have characteristics that characterize its properties.



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IX. CONCLUSION

The project titled as Online Furniture Store Management System was deeply studied and analyzed to design the code and implement. It was done under the guidance of the experienced project guide. All the current requirements and possibilities have been taken care during the project time. Online Furniture Store Management System is used for daily operations in any organization to maintain or access employee related information for internal administration purposes. The package was designed in such a way that future modifications can done easily. The following conclusions can be deduced from the development the efficiency.

- Automation of the entire system improves the efficiency
- It provides a friendly graphical user interface which proves to be better than compared to the existing system
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The system has adequate scope foe modification in future if it is necessary.

X. FUTURE WORK

The furniture is experiencing major changes due to the shift in customer expectations. Consumers are now looking for convenience, customization, and products that suit their personality and level of comfort. Besides, with the development of innovation, they are more aware of the trends, which are reflected in their consumption. Before buying any product, customers do market research and analyze social media, industry trends, and customer reviews for better exposure. This change in customer behavior has eventually increased the need for digital solutions. The software has been developed in such a way that it can accept modifications and further changes. The software is very user friendly and future any changes can be done easily.

Software restructuring is carried out. Software restructuring modifies source code in an effort to make it amenable to future changes. In general, restructuring does not modify the over all program architecture. It tends to focus on the design details of individual modules and on local data structure defined within modules. Every system should allow scope for further development or enhancement. The system can be adapted for any further development. The system is so flexible to allow any modification need for the further functioning of programs.

Since the objectives may be brought broad in future, the system can be easily modified accordingly, as the system has been modularized. The future expansion can be done in a concise manner in order to improve the efficiently of the system.

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