A PROJECT BASED SEMINAR REPORT ON

"Online Furniture Booking System"



Submitted to SAVITRIBAI PHULE PUNE UNIVERSITY

In Partial Fulfilment of the Requirement for the Award of

MASTER OF COMPUTER APPLICATION (Under Engineering)

BY

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UNDER THE GUIDANCE OF Mr. Pritish Bisne



DEPARTMENT OF MASTER OF COMPUTER APPLICATION TRINITY ACADEMY OF ENGINEERING

Kondhwa Annex, Pune - 411048 2024-2025

TRINITY ACADEMY OF ENGINEERING

Department of Master of Computer Application



CERTIFICATE

This is to certify that the Project Based Learning entitled

"Online Furniture System"

submitted by

Suyash Sahebrao Ghugul 6852

This is to certify that **Suyash Sahebrao Ghugul** has successfully completed Project Based Learning entitled "**Online Furniture System**" under the guidance of "**Prof. Pritish Bisne**" in the Academic Year 2024-25 at MCA Department of Trinity Academy of Engineering , under the Savitribai Phule Pune University. This Project Based Learning work is duly completed.

Date: / /
Place: Pune

Prof. Pritish Bisne Project Guide Dr. A. A. Bhusari HOD Dr. R. J. Patil Principal

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Abstract

Online Furniture Shopping play a great importance in the modern business environment. Living Style Furniture System has opened the door of opportunity and advantage to the firms. This paper analysed the different issue of online shopping. The research aims to provide theoretical contribution in understanding the present status of online shopping.

The Study Discuss the consumers online shopping behaviours. Paper also identifies the problems face by the consumers when they want to accept internet shopping. Present paper is an expressive study based on the detailed review of earlier pertinent studies related to the various concepts of online shopping to discover the concept of online shopping. Solitude and safety risk emerge regularly as a reason for being cautious about internet shopping.

Shopping convenience, information seeking, social contact, and diversity affects the consumer attitude towards online shopping. The impossibility of product testing, problems with complaints, product return and missus of personal data are the main doubts regarding on-line shopping.

This report covers the motivation, technology stack, system architecture, working principles, advantages, and applications of the chatbot in customer service.

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1 Introduction

1.1 Introduction

We have developed an Online E-commerce website named as Living Style furniture. This project deals with developing an e-commerce website for Online Product Sale. It provides the user with a cat log of different products available for purchase in the store online. In this project the objective to develop a basic website where a customer can register, login, view the product related to furniture's and buy the product online, and also customer is provided with a shopping cart.

Admin can add the product according to the product category or product type. The primary goal of an e-commerce site is to sell goods online, provide best quality products to customer. E- Commerce allows you to reach customers all over the country and our customers can make a purchase anywhere and anytime.

The Living Style Furniture System is a full-featured e-commerce web application built using the Python Django framework. This system provides a seamless and user-friendly interface for both customers and administrators. Customers can register or log into the platform, browse a categorized catalog of furniture products, search for specific items, view detailed product descriptions and images, manage their shopping cart, and place online orders. A secure and responsive design ensures accessibility from both desktop and mobile devices, enhancing the overall user experience.

The system was designed with real-world usability in mind, especially during and after the COVID-19 pandemic when physical store access was limited, and consumers increasingly preferred contactless, online purchasing options. The Living Style Furniture System not only meets this demand but also provides an opportunity for small and medium-sized furniture businesses to digitize their operations, expand their customer reach, and compete in a growing online marketplace.

With features like a clean user interface, secure authentication, real-time cart updates, order tracking, and admin-controlled product management, this project aims to create a complete e-commerce ecosystem specifically tailored for the furniture industry. Future enhancements such as AI-based product suggestions, mobile app support, AR/VR visualization, and third-party payment integrations can further expand the utility and competitiveness of the system.

In conclusion, the Living Style Furniture System bridges the gap between traditional furniture shopping and modern digital commerce by offering a scalable, efficient, and customer-friendly solution that benefits both businesses and consumers.

1.2 Company Profile

- About Us
- Vision Statement
- Mission Statement
- Service Offered

1.About Us

CONNECTSOFT INFOTECH PVT. LTD. is the best Software development company in Mumbai, India. It was established in 2015. We provide high-end web design development solutions in Web IT world. We does not just believe in increasing business. We trust in creating customer delight. We believe in making long-life relationships with our clients. We expect in developing a solid foundation for our company personally and professionally. We work for our clients and measure our success by their success. We not only provide services to our clients. But also we give internships to computer science students. Students can join our internship program as per their interests. We also provide an opportunity for our students to work on live projects. It will make them capable stand out in the interview of the company,

2. Vision Statement

Our Vision is to be a leading Web Solution company in IT sector and progress in our current position in market. We know that Customer's growth is our growth, so we commit our customers to helping achieving their business goals. We believe in work with the accuracy and best quality We want to be known as the reliable, innovative and user friendly software service provider in IT Industry.

3. Mission Statement

To be a world-class software development enterprise by providing high quality, customizable on-time and on-budget software solutions

4. Services Offered

- Web Development: Web development is the work involved in developing a Web site for the Internet. We believe in designing a user-friendly website to beat the industry standard. Our corporate web design service has designed to suit all your custom web design services. Paarsh InfoTech Pvt Ltd is also guaranteeing top results in the search engine ranking of your website with the help of our website development team.
- Software Development: Our software development company is a result of various innovations and enhancements. Our developed product fulfils our all client requirements. Also, we follow global standards of software engineering. Software development refers to a set of computer science activities dedicated to the process of creating, designing, delivering and supporting software.

• Android-App Development: Mobiles have become the most accessible platform in the digital world. Transform your business by developing a mobile application based on your concepts. We at Paarsh Infotech Pvt.Ltd develop comprehensive mobile app solutions for start-ups as well as enterprise-level businesses, to make them successful. Our experience and past work are the showcase of our brilliance in mobile applications development.

1.3 Aim and Objectives

- **Aim:** The primary aim of the Living Style Furniture System is to design and develop a robust, user-friendly, and secure e-commerce web application that enables seamless online buying and selling of furniture products.
- Objectives: Ecommerce business drives profitable growth with reduction is cost-tocustomer, developing customer-reach, and providing a unique customer experience. It has become more than essential for B2B as well as other businesses to make the right use of ecommerce. Now, ecommerce is evolving or better say evolved into digital commerce that implies to the entire business journey from buying to delivery with an online experience.

Develop an Online Furniture Shopping Platform:

-To create a web-based application that enables customers to explore, compare, and purchase furniture online without the need to visit a physical store.

Product Browsing and Categorization:

-To organize furniture products by category and type (e.g., beds, sofas, tables) for easier browsing and a better user experience, with search and filter options.

Shopping Cart and Order Management:

-To provide features like adding products to a shopping cart, adjusting quantities, removing items, and placing online orders seamlessly.

Ensure Data Integrity and Security:

-To build the system with secure coding practices, ensuring that user data such as personal details and order history are stored and transmitted safely.

Enhance User Experience:

-To develop a responsive, visually appealing, and fast-loading interface using HTML5, CSS, and Bootstrap that works well on both desktops and mobile devices.

Optimize Operational Efficiency:

-To reduce manual workload for business owners by automating inventory tracking, order notifications, and customer data management.

Support Scalability for Future Expansion:

-To design the application in a way that it can be scaled later to include more features like mobile apps, third-party integrations, chat support, and analytics.

Promote Eco-Friendly and Contactless Shopping:

-To contribute to environmentally conscious and health-safe shopping methods by reducing paper use and promoting contactless transactions.

2 Literature Survey

2.1 Existing Systems:

In the present scenario, people have to physically visit the stores for buying a furniture product and have to make payment through cash mode. In this method time as well as physical work is required, shopkeepers have to deal with the crowd in their shops.

The old methods can be classified into categories which are paper grounded and verbal grounded. For verbal-based work, the shopkeeper comes and explain all the product details to that customer, after the selection of product the shopkeeper pass the details to retailers and then owner books the product and then the further process which is time consuming.

Also, from owners point of view maintaining data record and the accounting physical file are tedious work to do.

Also, it is full of risk as anyone can access it and modify the data.

In today's competitive furniture supplies market, it is vital for retailers to have a website where products can be sold online.

2.2 Limitation of Existing Systems:

Most limitations of the business owners are how to manage their business. Because running your own furniture shop business can be undermined by the very simplest of problems, your ability to manage and of course the inventory of your product is important but without an ability to get the best from those around you then you may be looking at a failure, a costly failure.

2.3 Outcome of Literature Survey

Based on research and analysis of existing Furniture Booking systems, the following key insights have been gathered:

- AI-powered chatbots significantly reduce human intervention in handling repetitive customer queries.
- Studies reviewed indicate that customers prefer convenience, detailed product information, and return policies when shopping for furniture online. However, trust and security concerns, lack of tactile experience, and complicated return processes remain major obstacles.
- The literature emphasized the need for clean, responsive, and user-friendly interfaces, especially in online furniture shopping where visual representation plays a major role in customer decision-making.
- From the technical side, the survey identified Python-Django as a popular and robust framework for developing scalable and secure web applications. Additionally, SQLite was seen as an ideal lightweight database for small to mid-scale projects.

3 Proposed System:

- 1. There are a lot of websites on internet whereby it offers a variety of product and services for consumer can find and buy through online such as shoe, apparel, sun glasses and more Moreover, the online also provides some of the services which is paying bill online, booking a transport ticket and more. In this research, we are looking the problem addressed in this research which is the view of online shopping by consumer.
- 2. The spread of the Covid-19 pandemic has caused a lot of changes in our lifestyle, people fearing to get outside their homes, transportation almost shut down and social distancing becoming all the more important. Big to small scale business that relied on the traditional incur a lot of consequence due to the lockdown issues. Some tend to more towards using social media platforms like Facebook to sell their product. However, the social media platforms have been beneficial for marketing purposes alone but leaves the whole task of customer and massive order management via direct messaging (DM), which takes a lot of time to respond to all customers
- 3. However, there are several reasons hinder in the consumer are involved in online shopping because some of the consumers are not willing to take part in online purchased due to the valid reason because there are worried about the quality of the product in online are not durable
- 4. Lack of security Cyber security, or more precisely the lack of it, is a major problem on the internet today. E-commerce sites record important customer data like name, phone number, address, and bank details.

THE SOLUTION

Living Style furniture System is an Online shopping system provides a solution to reduce and optimize these expenses. Authorized Customers do not need to go to the factual shops to choose, and bring the products they need by hands. They simply browse their Personal computers or cell phones to access shops, and evaluate the products description, pictures on the screen to choose products. In addition, the owners of the shop do not need to arrange or exhibit their stocks products. They just input the description, prices of products, and upload their pictures. Simply, both customers and shop owners do not need to touch the real products in the whole process of shopping, and management.

In the end the logistic centre will distribute the products required by customers, or products ordered by shop owners to their locations. The customers are able to track the status of their orders until delivery, after which they can leave a review of the type of service they received. The payment and products9 quantity will be saved in database through the data flow. These shopping, management and distribution processes greatly simplify and optimize the retail business.

3.1 Feasibility Study:

Feasibility study carried out whether there is complex problem. A feasibility study is undertaken to determine the possibility or probability of either improving the existing system or developing completely new system. Feasibility study evaluates the cost and benefits of the proposed system.

There are three aspects of feasibility study, which should be check.

Following are the types of Feasibility Study:

- 1. Technical Feasibility
- 2. Economic Feasibility
- 3. Operational Feasibility

1. Technical Feasibility:

Definition:

Technical feasibility is carried out to determine whether the company has the capability, in terms of software, hardware, personnel and expertise, to handle the completion of the project. Technical feasibility determines whether it is possible to develop the project with available equipment, available software technology and the workers. If there is any kind of need in order to develop software in this case the cost of hardware, software and technical equipment are considered.

Our system used hardware, software which are we used the Windows 10 operating system, processor Intel® Core i3 CPU, RAM 4 GB, Hard Disk 500 GB, Front end and back end are Python Django and SQL Lite respectively. Therefore, we do not require costly hardware.

There is lot of security, accuracy and reliability in system by considering the above reason the system is technically feasible.

2. Economic Feasibility:

Definition:

Economic analysis is the most frequently used method for evaluating the effectiveness of a new system. Most commonly called as cost or benefit analysis, the procedure is to determine the benefits and saving that are expected from a candidate system and compare them with costs.

It is the study of economic benefits of this software. More commonly known as cost/benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs. If benefits outweigh costs, then the

decision is made to design and implement the system. An entrepreneur must accurately weigh the cost versus benefits before taking an action. These websites save our money and time. By this website, we can buy product in online. Today everybody is busy, so time saving is another important thing of our life.

Economic feasibility consists of two types of cost are as follows:

One-time Cost:

One-time cost may include:

- Feasibility study cost.
- The costs for converting from present system to new system.
- Construction or remodelling of computer room/facilities.
- Cost involved in software packages.

3. Operational Feasibility:

Operational feasibility corresponds to whether users are aware of interface environment and sufficient resources are available or not.

- People with a basic knowledge of computers would be able to use our system very effectively and easily, as the system would have an intuitive GUI. The director and employees of Living Style Furniture System have a basic operating knowledge of computers, so understanding the working of the system and using it would be easy from the decision maker9s point of view.
- All the relevant necessary resources for implementing and operating this system are already present in office. Bearing in mind the above factor, it was observed that the cost would be incurred in developing this project from an operational standpoint would be low. Thus, it would be operational feasible for the company.

3.2 Objective of Proposed System:

Ecommerce business drives profitable growth with reduction is cost-to- customer, developing customer-reach, and providing a unique customer experience. It has become more than essential for B2B as well as other businesses to make the right use of ecommerce. Now, ecommerce is evolving or better say evolved into digital commerce that implies to the entire business journey from buying to delivery with an online experience.

Below are the few objectives of ecommerce:

- Reduce management costs.
- Developing business relations.
- Providing a unique customer experience.
- Increasing the number of loyal customers.
- Boosting the efficiency of services.
- Making responsive ecommerce website.
- Increasing sales.

4 Technology Used

4.1 Operating System used (Windows 10 and 11 both):

Windows 10 is a major release of Microsoft's Windows NT operating system. It is the direct successor to Windows 8.1, which was released nearly two years earlier. It was released to manufacturing on July 15, 2015, and later to retail on July 29, 2015. Windows 10 was made available for download via MSDN and TechNet, as a free upgrade for retail copies of Windows 8 and Windows 8.1 users via the Windows Store, and to Windows 7 users via Windows Update. Windows 10 receives new builds on an ongoing basis, which are available at no additional cost to users, in addition to additional test builds of Windows 10, which are available to Windows Insiders. Devices in enterprise environments can receive these updates at a slower pace, or use long-term support milestones that only receive critical updates, such as security patches, over their ten-year lifespan of extended support. In June 2021, Microsoft announced that support for Windows 10 editions which are not in the Long-Term Servicing Channel (LTSC) will end on October 14, 2025.

Windows 10 received generally positive reviews upon its original release. Critics praised Microsoft's decision to provide the desktop-oriented interface in line with previous versions of Windows, contrasting the tablet- oriented approach of Windows 8, although Windows 10's touch-oriented user interface mode was criticized for containing regressions upon the touch- oriented interface of its predecessor. Critics also praised the improvements to Windows 10's bundled software over Windows 8.1, Xbox Live integration, as

Well as the functionality and capabilities of the Cortana personal assistant and the replacement of Internet Explorer with Microsoft Edge.

However, media outlets have been critical of the changes to operating system behaviour's, including mandatory update installation, privacy concerns over data collection performed by the OS for Microsoft and its partners, and adware-like tactics used to promote the operating system on its release.

Microsoft initially aimed to have Windows 10 installed on over one billion devices within three years of its release; that goal was ultimately reached.

Windows worldwide. As of April 2023, Windows 10 is estimated to have a 73Windows 10 is the final version of Windows that supports 32-bit processors (IA- 32 and ARMv7-based) and devices with BIOS firmware. Its successor, Windows 11, requires a device that uses UEFI firmware and a 64- bit processor in any supported architecture (x86-64 for x86 and ARMv8 for ARM). Windows 11 is the latest major release of Microsoft's Windows NT operating system, released in October 5, 2021. It is a free upgrade to its predecessor, Windows 10 (2015), and is available for any Windows 10 devices that meet the new Windows 11 system requirements.

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4.2 Python

Python is a popular programming language. It was created by Guido van Rossum, and Released in 1991.

- -It is Used for:
- Web development (server-side),
- Software development,
- Mathematics.
- System scripting.

What can Python do?

- Python can be used on a server to create web applications.
- Python can be used alongside software to create workflows.
- Python can connect to database systems. It can also read and modify files.
- Python can be used to handle big data and perform complex mathematics.
- Python can be used for rapid prototyping, or for production-ready software development.

Why Python?

- Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc.).
- Python has a simple syntax similar to the English language.
- Python has syntax that allows developers to write programs with fewer lines than some other programming languages.
- Python runs on an interpreter system, meaning that code can be executed as soon as it is written. This means that prototyping can be very quick.
- Python can be treated in a procedural way, an object-oriented way or a functional way.
- The most recent major version of Python is Python 3, which we shall be using in this tutorial. However, Python 2, although not being updated with anything other than security updates, is still quite popular.
- In this tutorial Python will be written in a text editor. It is possible to write Python in an Integrated Development Environment, such as Thonny, Pycharm, NetBeans or Eclipse which are particularly useful when managing larger collections of Python files.

Python Syntax compared to other programming languages:

- Python was designed for readability, and has some similarities to the English language with influence from mathematics.
- Python uses new lines to complete a command, as opposed to other programming languages which often use semicolons or parentheses.
- Python relies on indentation, using whitespace, to define scope; such as the scope of loops, functions and classes. Other programming languages often use curly-brackets for this purpose

4.3 DBMS/No SQL used to build database (MySQL/Oracle, Teradata):)

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database. MySQL is open-source and free software under the GNU license. It is supported by Oracle Company.

MySQL includes all topics of MySQL database that provides for how to manage database and to manipulate data with the help of various SQL queries. These queries are: insert records, update records, delete records, select records, create tables, drop tables, etc. There are also given MySQL interview questions to help you better understand the MySQL database.

Advanced NLP capabilities for context-aware responses. Ability to generate meaningful and intelligent replies. Continuous improvement through fine-tuning and training.

What is DataBase?

It is very important to understand the database before learning MySQL. A database is an application that stores the organized collection of records. It can be accessed and manage by the user very easily. It allows us to organize data into tables, rows, columns, and indexes to find the relevant information very quickly. Each database contains distinct API for performing database operations such as creating, managing, accessing, and searching the data it stores. Today, many databases available like MySQL, Sybase, Oracle, MongoDB, PostgreSQL, SQL Server, etc.

What is MySQL?

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company.

It is fast, scalable, and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications.

It is developed, marketed, and supported by MySQL AB, a Swedish company, and written in C programming language and C++ programming language.

Companies use MySQL MySQL supports many Operating Systems like:

Windows, Linux, MacOS, etc. with C, C++ and Java languages. MySQL is a Relational Database Management System:

- (RDBMS) software that provides many things, which are as follows:
- It allows us to implement database operations on tables, rows, columns, and indexes.
- It defines the database relationship in the form of tables (collection of rows and columns), also known as relations.
- It provides the Referential Integrity between rows or columns of various tables.
- It allows us to updates the table indexes automatically.
- It uses many SQL queries and combines useful information from multiple tables for the end-user.

How MySQL Works?

MySQL follows the working of Client-Server Architecture. This model is designed for the end-users called clients to access the resources from a central computer known as a server using network services. Here, the clients make requests through a graphical user interface (GUI), and the server will give the desired output as soon as the instructions are matched. The process of MySQL environment is the same as the client-server model. The core of the MySQL database is the MySQL Server. This server is available as a separate program and responsible for handling all the database instructions, statements, or commands. The working of MySQL database with MySQL Server are as follows:

- MySQL creates a database that allows you to build many tables to store and manipulate data and defining the relationship between each table.
- Clients make requests through the GUI screen or command prompt by using

How MySQL Works?

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SQL creates a database that allows you to build many tables to store and manipulate data and defining the relationship between each table.

- A client can use any MySQL GUI, but it is making sure that your GUI should be lighter and user-friendly to make your data management activities faster and easier.
- Some of the most widely used MySQL GUIs are MySQL Workbench, Sequel Pro, DB Visualizer, and the Navi cat DB Admin Tool.
- Some GUIs are commercial, while some are free with limited functionality. Some are only compatible with MacOS thus, you can choose the GUI according to your Needs.

Specific SQL expressions on MySQL. Finally, the server application will respond with the requested expressions and produce the desired result on the client-side.

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- Some of the most widely used MySQL GUIs are MySQL Workbench, Sequel Pro, DB Visualizer, and the Navi cat DB Admin Tool.
- Some GUIs are commercial, while some are free with limited functionality. Some are only compatible with MacOS thus, you can choose the GUI according to your Needs.

5 Testing

6 Advantages and Disadvantages

6.1 Advantages

24/7 Availability: Unlike human agents, the chatbot can operate continuously without breaks, providing round-the-clock customer support.

Quick Response Time: AI-driven responses are instant, reducing waiting times and improving customer satisfaction.

Scalability: The chatbot can handle multiple queries simultaneously, making it more efficient than traditional customer support teams.

Cost-Effective: Reduces operational costs by minimizing the need for human customer service representatives.

Consistent Responses: Ensures uniformity in responses, avoiding variations that may occur with human agents.

Multi-Language Support: AI chatbots can be trained to understand and respond in multiple languages, enhancing global accessibility.

Voice Interaction : Speech-to-Text (STT) and Text-to-Speech (TTS) capabilities improve user engagement and accessibility for visually impaired users.

Data Collection and Insights: Chatbots can store and analyze user queries to provide businesses with valuable insights for service improvement.

6.2 Disadvantages

Limited Understanding of Complex Queries AI models may struggle with highly specific or nuanced queries that require deep contextual understanding.

Lack of Emotional Intelligence Chatbots cannot replicate human emotions, making it difficult to handle sensitive customer issues.

Data Privacy Concerns Handling sensitive user data requires strong security measures to prevent breaches or misuse.

Dependence on Internet Connectivity The chatbot relies on a stable internet connection to function effectively.

Initial Development Costs While cost-effective in the long run, implementing an AI chatbot requires an initial investment in development and integration.

Limited Learning Without Training AI models need regular updates and training to improve their responses and adapt to new user queries.

Technical Issues and Downtime Chatbots may experience downtime or bugs, affecting customer interactions and requiring maintenance.

6.3 Sample Input and Output Screen

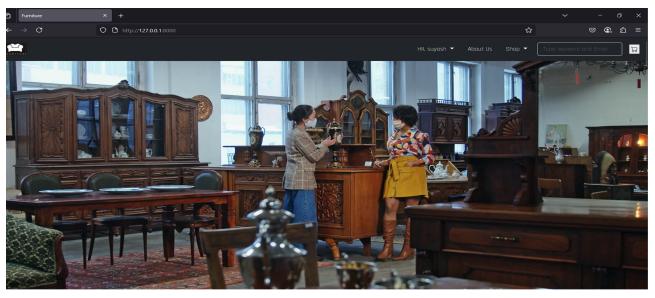








Fig: Home Screen

2.Sign Up

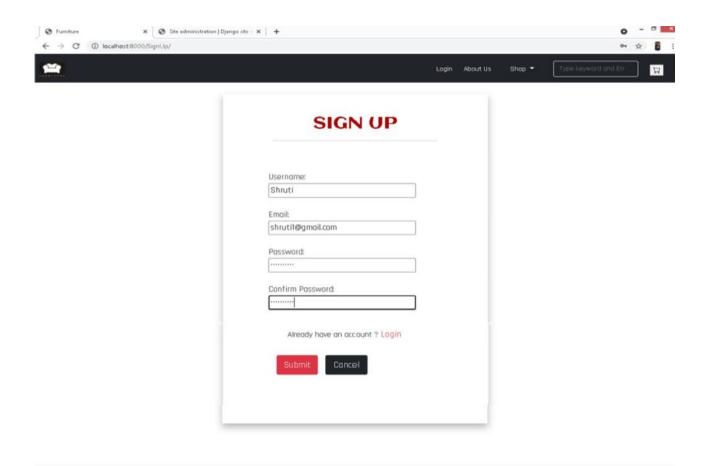


Fig:SignUp Page

3.User Registration

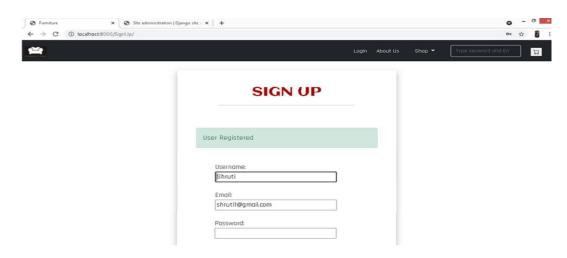


Fig:User Registration

4.Login

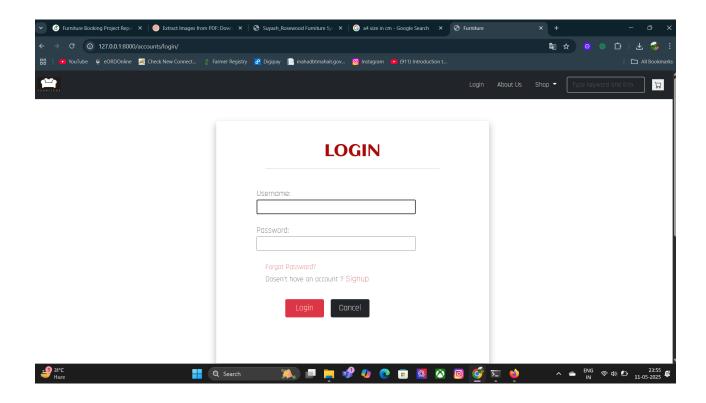


Fig:Login Page

5.Profile

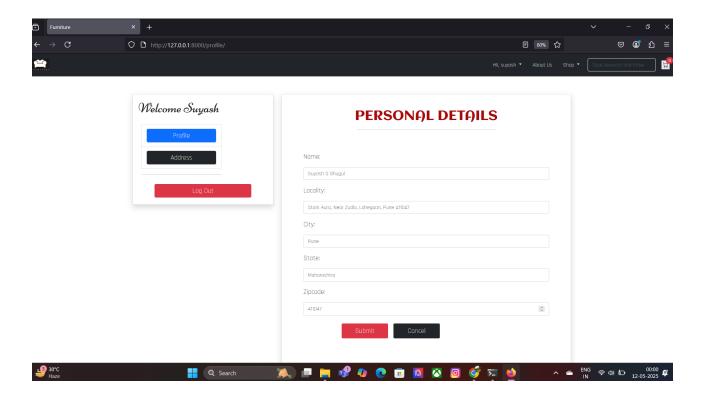


Fig:Profile Page

6.Address Details

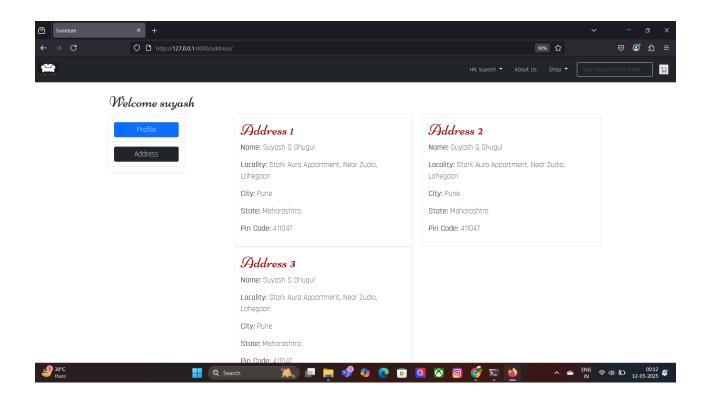


Fig:Address Details Page

7. Change Password

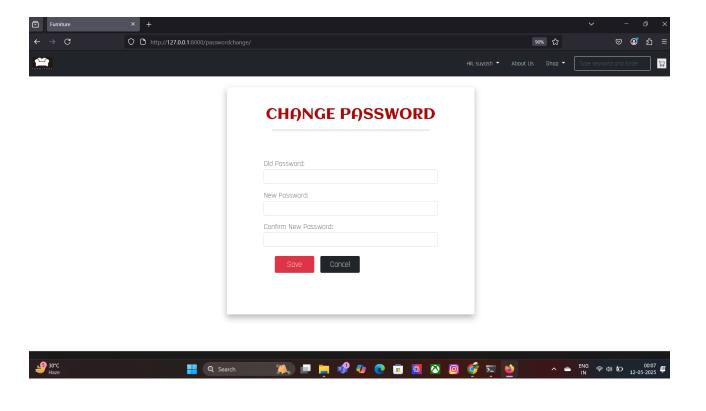


Fig:Change Password Page

8. About us

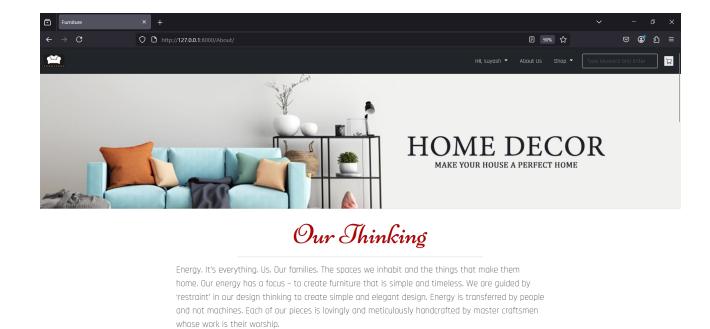


Fig:About Page

The modern fabric of Living Style is woven together with traditional values of quality and

Q Search

9.Units

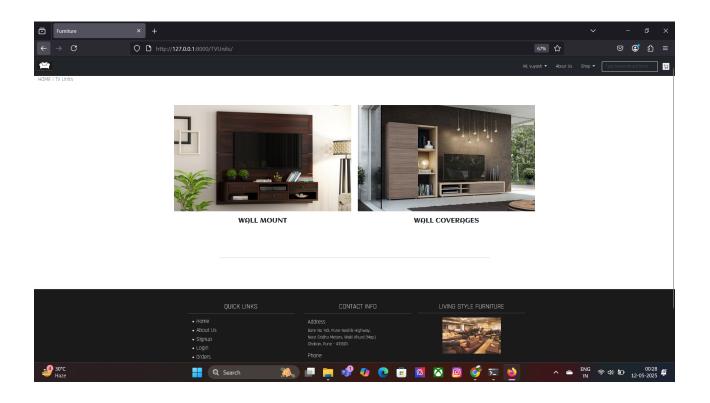


Fig:Units Page

7 Coding

article listings xcolor [margin=1in]geometry

Code Snippet:

```
from django.shortcuts import render, redirect, HttpResponse
from django.views import View
from django.contrib import messages
from .models import Customer, Payment, Product, Cart, OrderPlaced
from .forms import CustomerRegistrationForm, CustomerProfileForm
from django.http import JsonResponse
from django.db.models import Q
from django.contrib.auth.decorators import login_required
from django.utils.decorators import method_decorator
# Create your views here.
def home(request):
    return render(request, 'app/home.html')
def allProducts(request):
    allProducts = Product.objects.all()
    search_query = request.GET.get('q')
    if search_query:
        allProducts = allProducts.filter(
            Q(title__icontains=search_query) |
            Q(description__icontains=search_query) |
            Q(category__icontains=search_query)
        ).distinct()
    context = {'allProducts': allProducts}
    return render(request, 'app/allproducts.html', context)
def checkout(request):
    return render(request, 'app/checkout.html')
# def login(request):
      return render(request, 'app/login.html')
# def signup(request):
      return render(request, 'app/signup.html')
class CustomerRegistrationView(View):
    def get(self, request):
form = CustomerRegistrationForm()
context = {'form': form}
return render(request, 'app/signup.html', context)
def post(self, request):
    form = CustomerRegistrationForm(request.POST)
    if form.is_valid():
        messages.success(request, "User Registered")
        form.save()
```

```
context = {'form': form}
   return render(request, 'app/signup.html', context)
@method_decorator(login_required, name='dispatch')
class ProfileView(View):
   def get(self, request):
        form = CustomerProfileForm()
        totalitem = len(Cart.objects.filter(user=request.user))
        context = {
            'form': form,
            'totalitem': totalitem,
            'active': 'btn-primary'
        return render(request, 'app/profile.html', context)
   def post(self, request):
        form = CustomerProfileForm(request.POST)
        if form.is_valid():
            usr = request.user
            name = form.cleaned_data['name']
            locality = form.cleaned_data['locality']
            city = form.cleaned_data['city']
            state = form.cleaned_data['state']
            zipcode = form.cleaned_data['zipcode']
            reg = Customer(
                user=usr, name=name, locality=locality,
                city=city, state=state, zipcode=zipcode
            )
            reg.save()
   messages.success(request, "Congratulations.uProfileuUpdateduSuccessfully")
        return render(request, 'app/profile.html', {
            'form': form,
            'totalitem': len(Cart.objects.filter(user=request.user)),
            'active': 'btn-primary'
        })
# return render(request, 'app/profile.html', {'form': form, 'active':
'btn-primary', 'totalitem': totalitem})
```

8 Testing

8.1 Testing Strategy

In this level of testing, we are testing the system as a whole after integrating all the main modules of the project.

We are testing whether the system is giving correct output or not. All the modules were integrated and the flow of information among different modules was checked. It was also checked whether the flow of data is as per the requirements or not. It was also checked whether any particular module is non-functioning or not i.e., once the integration is over each and every module is functioning in its entirety or not.

In this level of testing, we tested the following:

- Whether all the forms are properly working or not.
- Whether all the forms are properly linked or not.
- Whether all the images are properly displayed or not.
- Whether data retrieval is proper or not.

Specific knowledge of the application's code/internal structure and programming knowledge in general is not required. The tester is aware of what the software is supposed to do but is not aware of how it does it. For instance, the tester is aware that a particular input returns a certain, invariable output but is not aware of how the software produces the output in the first place.

8.2 Unit Test Plan

Unit testing concentrates verification on the smallest element of the program 3 the module. Using the detailed design description important control paths are tested to establish errors within the bounds of the module.

In the system each sub module is tested individually as per the unit testing such as campaign, lead, contact etc. are tested individually. Their input field validations are tested.

8.3 Test Case/ Test Plan

Test cases are built around specifications and requirements, i.e., what the application is supposed to do. Test cases are generally derived from external descriptions of the software, including specifications, requirements and design parameters. Although the tests used are primarily functional in nature, nonfunctional tests may also be used. The test designer selects both valid and invalid inputs and determines the correct output without any knowledge of the test object's internal structure.

8.4 Test Design Techniques

Typical black-box test design techniques include:

- Decision table testing
- All-pairs testing
- State transition Analysis
- Equivalence partitioning
- Boundary value analysis
- Cause effect graph
- Error guessing.

* Test Case / Test Script

Test Case ID	Test Case Descrip- tion	Precondition	nTest Steps	Expected Result	Actual Result	Status
TC- HOME- 001	Verify that the home screen loads correctly	User has launched the app	 Launch app Observe home screen 	Home screen is displayed with all UI components	As expected	Pass
TC- HOME- 002	Verify redirection from featured item to detail page	App is on home screen	1. Tap a featured item	Navigates to item detail screen	As expected	Pass
TC- HOME- 003	Fail to load home screen due to no internet	Internet is disabled	1. Launch app	Error message about connectivity	App froze	Fail
TC- HOME- 004	Fail to navigate from featured to detail page	Home screen is loaded	1. Tap on featured item	Navigate to details	Nothing happens	Fail

9 Conclusion

This project is successfully completed and works properly according to the needs in this project.

The Conclusion of the system is based on users need and is user centered. The system is developed in considering all issues related to all user which are included in this system. In the current market for online shopping, we do not have many applications to be precisely for furniture shopping. This application facilitates more user- friendly interfaces, virtual shopping experience, on the go selections, dimensions of the furniture and easy payment options as well as it is less time consuming.

A proper care has been taken to avoid any runtime errors. The important thing is that the project is robust and secured...We have tried our level best to make the system as dynamic as possible. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

This project has given us great satisfaction in having designed an website which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications.

This Django code handles the core functionalities of a basic e-commerce application:

- Displaying product details.
- Managing user addresses.
- Checkout processing with item total calculations.
- Displaying user-specific orders.

The modular structure and use of Django ORM make the code efficient and readable.

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