



Scrum Master

Binumon Joseph

Assistant Professor  
Department of Computer Applications

INSTHELPER

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Sonu Sebastian

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Git url: https://github.com/int-sonu/intmcaproject

E Mail: sonusebastian2025@mca.ajce.in

ABSTRCT

**ONLINE FURNITURE MANUFACTURING AND PURCHASING FURNITURE**

The online furniture manufacturing and purchasing furniture, The website enables users to explore a wide range of furniture products, customize their choices based on specific criteria such as wood type, dimensions, design preferences, and required features, and ultimately select or design furniture that fits their unique needs. The platform allows users to browse existing furniture designs or create custom pieces through an interactive design tool that provides real-time visualization of their choices. They can option for a more personalized experience by scheduling a consultation with our designers to collaborate and create custom furniture designs tailored to their specific needs and preferences. Based on these preferences and the available furniture designs showcased on our website, users can select the furniture they desire. By integrating these modules, the online furniture manufacturing and purchasing website aims to optimize user engagement, streamline operational efficiencies, and ensure a user-friendly experience from product selection to final purchase. This structured approach enhances administrative oversight, facilitates seamless transactions, and supports the platform's goal of delivering quality furniture solutions tailored to customer preferences

**Modules and Functionalities:**

1. **Users Module:**

* User **Registration**: Allows new users to create accounts by providing necessary information such as username, email address, and password.
* User **Login**: to access their accounts by entering their credentials with validation.
* **Profile**: Enables users to view and edit their profiles, including updating personal information, changing passwords
* **Password Recovery**: users to recover their passwords forget or lose then through email verification.

**2**. **Manufacture Module:**

* Product Design and Configuration: Allows manufacturers to create and configure product designs based on specifications provided by customers
* Payment Processing
* Selling Furniture

**3. Admin Module:**

* **Product Management**:
* Adding new products.
* Allows admins to edit product details such as name, description, price, and availability.
* Categorization of products within the catalog.
* **Shopping Cart**
* Allows users to add items to their cart
* Allows users to wishlist
* **Order Management**:
* Provides an overview of all orders placed
* Allows admins to view order details, including customer information, order status, and payment status.
* order processing tasks such as order confirmation, cancellation
* Payment Processing

**Technologies Used:**

* Frontend: HTML, CSS, JavaScript, Python
* Backend: Django
* Database: MySQL

**Main Project**

Implementing machine learning into online furniture manufacturing and purchasing platform revolutionizes the way users interact with your products and services. Implementing an automated visual inspection system using machine learning can significantly enhance the quality control process for furniture products. Convolutional Neural Networks (CNNs) for image recognition and classification, the system can automatically inspect images of finished furniture items to detect defects such as scratches, dents, misalignments, or inconsistencies in design. The integration of this technology allows manufacturers to upload images of their finished products to the system. The CNN models analyze these images, identifying and flagging any potential defects for further inspection or correction. Additionally, integrating virtual reality (VR) into the customization and design preview functionality of our online furniture purchasing website revolutionizes the customer experience. Users can now interactively customize furniture dimensions, materials, colors, and styles in real-time within a virtual environment. This immersive capability allows customers to visualize their custom designs in their own spaces, aiding informed decision-making and ensuring personalized satisfaction. VR not only enhances engagement but also provides a seamless and innovative shopping experience that empowers users to create ideal living environments tailored to their unique preferences.