

FurniMart Project Documentation

Project Overview and Goals

FurniMart is a B2B (Business-to-Business) e-commerce platform designed specifically for the furniture industry. It enables bulk ordering and state-to-state transportation of furniture products, with future scalability to support international (country-to-country) deliveries.

The platform leverages Agile methodology for iterative development and continuous improvement, ensuring faster time-to-market and adaptability to changing business needs. Users can log in as either a manufacturer or a customer. Customers can communicate specific design requirements and color customizations directly to manufacturers, receive estimated delivery times, and manage large orders efficiently.

The overarching goal is to streamline the furniture procurement process for businesses, enhance customization, and improve logistics at scale.

Project Contributors

Guider: Mr. Navjot (Technical Training Placement Cell)

Students: Jagjeet, Vihaan, Bhavesh, Jonsi, Gokul, Ravi

Business Model

FurniMart operates on a B2B model where manufacturers connect directly with business customers. The platform serves as an intermediary that facilitates communication, customization, and logistics management.

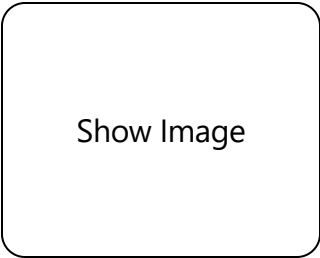


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The diagram above shows the relationship between Business Organizations, Wholesalers, and Customers through the FurniMart platform.

Key Screenshots

Customer Interface

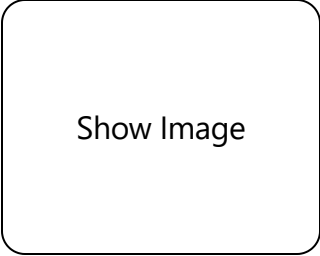


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The customer interface provides an elegant, user-friendly experience with intuitive product categories, featured collections, and prominent calls-to-action. Key features include:

- Clean product categorization (Beds, Desks, Outdoor Gate, Sofas, Tables)
- Featured collections with high-quality images
- Prominent search functionality
- Cart and wishlist integration
- Dashboard access for business customers

Manufacturer Dashboard



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The manufacturer dashboard provides comprehensive business intelligence and order management capabilities:

- Real-time metrics (1,234 Total Orders, 456 Products Sold, 789 New Customers, \$12,345 Monthly Revenue)
- Sales overview with daily performance metrics
- Recent customer activity tracking
- Inventory management (15 items in stock)
- New order notifications

Registration Interface



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The platform features a dual registration system:

- Individual registration for job seekers
- Organization registration for companies looking to hire talent or purchase furniture in bulk

Installation and Setup Instructions

Clone the Repository

```
bash

git clone https://github.com/furnimart/furnimart-platform.git
cd furnimart-platform
```

Install Dependencies

Navigate to the project directory and run:

```
bash

npm install
```

or

```
bash

yarn install
```

Configure Environment Variables

Create a `.env` file and add necessary configurations:

```
DB_HOST=localhost
DB_USER=root
DB_PASS=your_password
DB_NAME=furnimart_db
JWT_SECRET=your_jwt_secret
API_PORT=5173
```

Database Setup

Initialize and migrate the database:

```
bash
```

```
npm run migrate
```

or

```
bash
```

```
yarn migrate
```

Start the Application

```
bash
```

```
npm run dev
```

or

```
bash
```

```
yarn dev
```

Access the Website

Open your browser and go to <http://localhost:5173/furniture>

Architecture Diagrams

High-Level Architecture

- **Frontend:** React.js for user interface
- **Backend:** Node.js/Express for API and business logic
- **Database:** MySQL for persistent storage
- **Authentication:** JWT for secure login (manufacturer and customer roles)
- **Cloud/Hosting:** AWS for deployment and scalability
- **APIs:** RESTful APIs for communication between frontend and backend
- **CI/CD:** GitHub Actions for continuous integration and deployment

Tech Stack Used

Layer	Technology
Frontend	React.js
Backend	Node.js / Express
Database	MySQL
Authentication	JWT
Deployment	AWS
Version Control	Git / GitHub
UI Framework	Tailwind CSS
State Management	Redux

Features and Modules

User Authentication

- Two login types: Manufacturer and Customer
- Role-based access control
- Session management
- Password recovery

Product Catalogue

- Browse and search furniture products
- Advanced filtering by category, price, and material
- Sorting options
- Product comparison

Bulk Ordering

- Place large quantity orders (B2B focus)
- Volume-based discounts
- Saved order templates
- Recurring order scheduling

Customization

- Customers can specify design and color preferences
- Upload reference images
- Request specialized modifications

- Real-time pricing adjustments

Order Estimation

- Real-time estimation of delivery time based on customization and logistics
- Cost calculations including shipping
- Production timeline visualization
- Dependency tracking

State-to-State Transportation

- Logistics module for managing inter-state deliveries
- Route optimization
- Carrier selection
- Package tracking

Communication Module

- Direct messaging between customer and manufacturer
- Notification system
- File sharing
- Video conferencing integration

Order Tracking

- Real-time tracking of order status and shipment
- Milestone notifications
- Delivery confirmation
- Issue reporting

Admin Panel

- Manage users, orders, and product listings
- Generate reports
- Monitor system performance
- Configure global settings

Future Scope

- Expand to country-to-country delivery

- AR/VR product visualization
- AI-powered design recommendations
- Carbon footprint tracking

Project Links

- **Production Website:** furnimart.com
- **GitHub Repository:** github.com/furnimart/furnimart-platform
- **Documentation:** docs.furnimart.com
- **API Reference:** api.furnimart.com/docs
- **Issue Tracker:** github.com/furnimart/furnimart-platform/issues

User Guides

For Customers

1. Register/Login as a Customer

- Navigate to furnimart.com
- Click "Register as Organization"
- Complete the registration form
- Verify your email address
- Log in with your credentials

2. Browse Products and Use Advanced Search/Filter

- Use the search bar to find specific items
- Filter by category using the sidebar
- Sort results by price, popularity, or newest
- Compare selected products

3. Customize Product and Submit Order

- Select a product of interest
- Click "Customize" button
- Specify design requirements and color preferences
- Upload reference images if needed
- Set quantity and delivery timeframe
- Review and confirm order

4. **Track Order Status and Communicate with Manufacturer**

- Access "My Orders" section in dashboard
- View order status and tracking information
- Use messaging system to contact the manufacturer
- Receive notifications on order progress

For Manufacturers

1. **Register/Login as a Manufacturer**

- Navigate to furnimart.com/manufacturer
- Complete the verification process
- Set up your manufacturer profile
- Add company information and capabilities

2. **View and Manage Incoming Orders**

- Access your manufacturer dashboard
- Review new and ongoing orders
- Sort and filter orders by status
- Generate order reports

3. **Respond to Customization Requests**

- Review customer specifications
- Provide feedback on feasibility
- Submit quotes and timelines
- Request additional information if needed

4. **Update Order Status and Estimated Delivery Time**

- Update production milestones
- Communicate delays or changes
- Provide shipping information
- Confirm deliveries

Contribution Guidelines

1. Fork the repository and create your branch from `main`
2. Follow the established code style guidelines
3. Write clear commit messages

4. Include appropriate tests with your changes
5. Update documentation as needed
6. Submit pull requests with detailed descriptions
7. Participate in code reviews and discussions
8. Respect the community code of conduct

For documentation, update or create markdown files in the `/docs` directory.

Changelog and Version History

v1.0 (2025-05-09)

- Initial release with core features
- User authentication system
- Product catalog with search functionality
- Bulk ordering capabilities
- Basic customization options
- State-to-state delivery system

v1.1 (Coming Soon)

- Order estimation improvements
- Real-time tracking enhancements
- Mobile responsive design
- Performance optimizations

v1.2 (Planned)

- Enhanced admin panel
- Communication module upgrade
- Analytics dashboard
- Integration with third-party logistics providers

v2.0 (Planned)

- Support for international (country-to-country) delivery
- Advanced analytics and reporting
- Machine learning for product recommendations

- Augmented reality for product visualization

Acknowledgement

We sincerely thank **Mr. Navjot** (Technical Training Placement Cell) for his expert guidance and support throughout the project. Special thanks to team members **Jagjeet, Bhavesh, Vihaan, Jonsi, Gokul, and Ravi** for their dedicated contributions and teamwork.

References

1. [Benefits of Agile Methodology for eCommerce](#)
2. [Furniture eCommerce Website](#)
3. [Setting Guidelines for Repository Contributors](#)
4. [The Good Docs Project - Contributing Guide](#)
5. [Acknowledgement Templates](#)

This documentation provides a structured overview for FurniMart, ensuring clarity for users, contributors, and future developers. For further details or to contribute, please refer to the repository's README and contribution guidelines.