

food store system project report with diagrams Workbook

Food Store System Project Report with Diagrams

Introduction

Food store system project report with diagrams is an essential document that outlines the design, development, and implementation of a comprehensive inventory and sales management system for a food retail store. In today's highly competitive food industry, efficient management of stock, sales, customers, and suppliers is crucial for business success. A well-structured food store management system streamlines operations, reduces manual errors, enhances customer satisfaction, and provides valuable insights through data analysis.

This project report serves as a detailed guide for developers, managers, and stakeholders involved in setting up or improving a food store's management infrastructure. It includes system requirements, architecture diagrams, database design, modules, and flowcharts, all aimed at providing a clear understanding of how the system functions and how it can be optimized for better performance.

In this article, we will explore the core components of a food store system, discuss its architecture with diagrams, and highlight best practices for its development and deployment.

Objectives of the Food Store System

- Automate inventory management to track stock levels, expiry dates, and reordering
- Streamline sales and billing processes for quick checkout experiences
- Maintain detailed records of customers, suppliers, and transactions
- Generate reports and analytics for business decision-making
- Enhance overall operational efficiency and reduce manual workload

Key Features of the Food Store System

1. Inventory Management

- Add, update, and delete product details

- Track stock levels and expiration dates
- Automatic reordering alerts when stock is low

2. Sales and Billing

- Generate sales invoices
- Manage different payment methods
- Apply discounts and offers

3. Customer Management

- Maintain customer profiles
- Track purchase history
- Implement loyalty programs

4. Supplier Management

- Record supplier details
- Manage purchase orders
- Track supplier performance

5. Reporting and Analytics

- Sales reports
- Stock status reports
- Profit and loss statements

System Architecture and Diagrams

1. Overall System Architecture

The food store system typically follows a multi-tier architecture comprising the presentation layer, business logic layer, and data layer. This modular design ensures scalability, maintainability, and security.

2. Database Design Diagram

The database forms the backbone of the system, storing all relevant data. The design usually involves several interconnected tables such as Products, Customers, Suppliers, Sales, and Purchases.

3. Flowchart of Sales Process

A flowchart illustrates how a sales transaction proceeds from product selection to payment and receipt generation.

Modules and Their Functionalities

1. Inventory Module

This module manages all aspects related to stock. It includes functionalities such as product entry, stock updates, and alerts for low inventory.

2. Sales Module

Handles the entire sales process, from adding items to a cart, calculating totals, applying discounts, to generating bills and receipts.

3. Customer Module

Maintains customer data, tracks purchase history, and facilitates loyalty programs and targeted marketing efforts.

4. Supplier Module

Manages supplier information, purchase orders, and delivery schedules to ensure seamless procurement operations.

5. Reporting Module

Provides comprehensive reports on sales, inventory levels, profits, and other key performance indicators, aiding managerial decision-making.

Implementation Technologies

The choice of technologies depends on the scope and scale of the project. Commonly used tools and frameworks include:

- **Frontend:** HTML, CSS, JavaScript, React.js, Angular
- **Backend:** PHP, Java, Python, Node.js
- **Database:** MySQL, PostgreSQL, MongoDB
- **Frameworks:** Laravel, Django, Express.js
- **Others:** Bootstrap for UI, REST APIs for communication

Development Process

- Requirement Analysis: Gathering detailed business needs and specifications.
- Design: Creating system architecture, database schema, and UI prototypes with diagrams.
- Implementation: Developing modules and integrating components.
- Testing: Conducting unit, integration, and user acceptance testing.
- Deployment: Launching the system in a live environment.
- Maintenance: Ongoing support, updates, and enhancements based on user feedback.

Benefits of a Food Store System

- Improved accuracy in inventory and sales data
- Faster transaction processing
- Enhanced customer experience through quick service
- Better stock control and reduced wastage
- Informed decision-making with detailed reports

Challenges and Best Practices

Challenges

- Data security and user privacy
- Integration with existing hardware or POS systems
- Handling concurrent transactions
- Ensuring system scalability for future growth

Best Practices

- Design user-friendly interfaces for ease of use
- Implement rigorous security protocols
- Maintain thorough documentation

- Conduct regular backups and data recovery tests
- Gather user feedback for continuous improvement

Conclusion

The **food store system project report with diagrams** provides a comprehensive blueprint for developing an efficient, reliable, and scalable management system tailored for food retail businesses. By integrating core modules like inventory, sales, customer, and supplier management with robust reporting features, such systems significantly enhance operational productivity and customer satisfaction. Proper planning, designing with diagrams, and leveraging suitable technologies are vital for successful implementation. As the food industry evolves, adopting digital solutions like these will remain indispensable for staying competitive and achieving long-term growth.

Food Store System Project Report with Diagrams is an essential document that illustrates the design, development, and implementation of a comprehensive food store management system. Such a report aims to provide stakeholders, developers, and users with a clear understanding of how the system functions, its architecture, and the benefits it offers. In this article, we will delve into the key components of the project report, explore the system's features, analyze its architecture with diagrams, and evaluate its overall effectiveness and potential improvements.

Introduction to Food Store System Project

A food store system is designed to streamline the management of inventory, sales, procurement, and customer interactions within a food retail environment. Traditionally, manual record-keeping methods posed challenges such as data inconsistencies, delays, and difficulty in tracking sales trends. The advent of digital systems has revolutionized food retail operations, leading to increased efficiency, accuracy, and better customer service.

The project report begins with an overview of the motivation behind developing the system, its scope, and objectives. Typically, the system aims to:

- Automate inventory management to reduce manual errors.
- Facilitate quick and accurate billing.
- Manage supplier and procurement data.
- Track sales and generate reports for decision-making.
- Improve customer experience through efficient service.

System Requirements and Analysis

Functional Requirements

The system is expected to provide core functionalities such as:

- Product management (adding, updating, deleting products)
- Inventory tracking and stock management
- Customer management (registration, data maintenance)
- Sales processing and billing
- Supplier management
- Reporting and analytics

Non-Functional Requirements

These include:

- Usability: User-friendly interface
- Performance: Fast response times
- Security: Data protection and access control
- Maintainability: Easy to update and troubleshoot

Feasibility Study

The report evaluates technical, economic, and operational feasibility, ensuring that the project is viable within the given constraints.

System Design and Architecture

System Architecture Overview

The food store system typically adopts a multi-tier architecture comprising:

- Presentation Layer (User Interface)
- Business Logic Layer
- Data Layer (Database)

A common architecture diagram is shown below:

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| User Interface |

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| Business Logic Layer |

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| Database Layer |

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This modular design enhances maintainability and scalability.

Diagrams and Visual Representations

- Use Case Diagram: Illustrates interactions between users (cashiers, managers, suppliers) and system functionalities.
- Entity-Relationship Diagram (ERD): Shows database structure, including entities such as Products, Customers, Suppliers, Sales, and their relationships.

- Flowchart of Sales Process: Visualizes steps from product selection to billing and payment.

Database Design

A well-structured database is crucial for system performance and data integrity. The report includes an ERD that details:

- Product Table: ProductID, Name, Category, Price, StockQuantity
- Customer Table: CustomerID, Name, ContactDetails
- Supplier Table: SupplierID, Name, ContactDetails
- Sales Table: SaleID, CustomerID, Date, TotalAmount
- SalesDetails Table: SaleID, ProductID, Quantity, Price

Features of the database design:

- Enforces data normalization to reduce redundancy.
- Implements primary and foreign keys for referential integrity.
- Uses indexes for faster data retrieval.

Implementation Details

Technology Stack

The project typically employs:

- Programming Language: Java, C, PHP, or Python
- Database: MySQL, SQL Server, or PostgreSQL
- Front-End: HTML, CSS, JavaScript, or desktop GUI frameworks
- Development Environment: Eclipse, Visual Studio, or similar

Key Modules

- Login Module: Ensures secure access.
- Product Management Module: CRUD operations for products.
- Sales Module: Handles transaction processing.
- Inventory Module: Monitors stock levels and alerts.
- Reporting Module: Generates sales, inventory, and profit reports.

Features and Functionalities

- User Authentication and Authorization
- Secure login for different user roles.
- Role-based access control (admin, cashier, manager).
- Inventory Management
- Real-time stock updates.
- Alerts for low stock levels.
- Batch management and expiry tracking.
- Sales and Billing
- Quick product lookup via barcode or search.
- Discount and offer management.
- Multiple payment modes.
- Supplier and Purchase Management
- Manage supplier details.
- Record purchase orders and receipts.
- Reporting and Analytics
- Daily, weekly, monthly sales reports.
- Inventory valuation.
- Profit analysis.

Advantages of the Food Store System

- Efficiency: Automates routine tasks, reducing manual effort.
- Accuracy: Minimizes errors in billing and inventory.
- Data Management: Centralized database for easy access and updates.
- Real-Time Monitoring: Immediate updates on stock and sales.
- Better Decision-Making: Reports help in strategic planning.
- Customer Satisfaction: Faster checkout and accurate billing.

Challenges and Limitations

- Initial Setup Cost: Investment in hardware and software.
- Training Requirement: Staff need to be trained to use the system effectively.
- Data Security Risks: Sensitive data must be protected against breaches.
- System Dependency: Downtime can disrupt operations.
- Scalability Concerns: Larger stores may require more advanced systems.

Conclusion and Future Scope

The Food Store System Project Report with Diagrams offers a comprehensive overview of how automation can significantly enhance food retail operations. It underscores the importance of a well-structured architecture, robust database design, and user-friendly interface. The implementation of such a system can lead to increased efficiency, better inventory control, and improved customer service.

Future enhancements could include:

- Integration with mobile applications for sales and inventory management.
- Implementation of advanced analytics and AI-driven demand forecasting.
- Incorporation of online ordering and delivery modules.
- Use of cloud-based solutions for scalability and accessibility.

Overall, the project demonstrates the potential of technology in transforming traditional food retail into a modern, efficient, and customer-centric business.

In summary, a detailed food store system project report with diagrams provides vital insights into the design, implementation, and benefits of automation in retail food stores. It serves as a blueprint for developers and managers to understand, develop, and optimize such systems effectively.

Question What are the key components typically included in a food store system project report with diagrams? A food store system project report usually includes components such as system overview, data flow diagrams (DFD), entity-relationship diagrams (ERD), system architecture, database design, user interface layouts, and flowcharts. These diagrams visually represent system processes, data management, and interactions to facilitate understanding and development. **Answer** How do data flow diagrams (DFD) enhance the understanding of a food store system project? DFDs illustrate how data moves within the system, showing processes, data stores, and data sources/destinations. They help stakeholders understand the system's functionality, identify data processing points, and improve system design accuracy, making complex workflows easier to comprehend. What role do entity-relationship diagrams (ERD) play in the food store system project report? ERDs depict the database structure by illustrating entities like products, customers, and orders, along with their relationships. They are crucial for designing the database schema, ensuring data integrity, and supporting efficient data retrieval and management. What are some best practices for creating diagrams in a food store system project report? Best practices include maintaining clarity and simplicity, using standardized symbols and notation, labeling all components clearly, ensuring diagrams are scalable and well-organized, and aligning diagrams with the system's functional requirements for better comprehension. How can flowcharts be used to represent processes in the food store system project? Flowcharts visually depict the sequential

steps of processes such as inventory management, billing, or order processing. They help identify process flow, decision points, and potential bottlenecks, aiding in system optimization and troubleshooting. What are the benefits of including diagrams in the project report for stakeholders? Diagrams provide a clear and concise visual representation of complex system components, making it easier for stakeholders to understand system design, workflows, and data relationships. This enhances communication, aids decision-making, and facilitates system development and troubleshooting. Which tools are commonly used to create diagrams for a food store system project report? Common tools include Microsoft Visio, Lucidchart, Draw.io, SmartDraw, and StarUML. These tools offer various templates and symbols suitable for creating DFDs, ERDs, flowcharts, and system architecture diagrams efficiently. How should diagrams be integrated into the overall project report for maximum effectiveness? Diagrams should be placed alongside relevant textual explanations, referenced appropriately within the report, and labeled clearly. They should be presented in a logical sequence that aligns with the development phases, ensuring they complement and enhance the written content. What challenges might arise when creating diagrams for a food store system project report, and how can they be addressed? Challenges include ensuring diagram accuracy, avoiding complexity overload, and maintaining consistency. These can be addressed by following standard notation, reviewing diagrams with team members, simplifying visuals where possible, and validating diagrams against system requirements.

Related keywords: food store management, inventory system, sales tracking, barcode scanning, database design, system architecture, user interface, supply chain management, data flow diagram, UML diagrams

My Associates Store

My Associates Store: Your Ultimate Destination for Quality Products and Exceptional Service

In today's fast-paced world, shopping has evolved beyond mere transactions to become a comprehensive experience that combines convenience, variety, and personalized service. **My Associates Store** stands out as a premier retail destination, dedicated to providing customers with top-quality products, expert guidance, and a seamless shopping experience. Whether you're searching for the latest electronics, fashionable apparel, or essential household items, my associates store is your trusted partner in fulfilling all your shopping needs.

What Makes My Associates Store Unique?

At the core of my associates store's success is its unwavering commitment to customer satisfaction and community engagement. From its extensive product selection to its knowledgeable staff, the

store aims to create a welcoming environment where customers feel valued and empowered.

1. Wide Range of Products

- Electronics and Gadgets: Smartphones, tablets, laptops, smart home devices, and accessories.
- Fashion and Apparel: Men's, women's, and children's clothing, shoes, and accessories.
- Home Goods: Furniture, kitchenware, décor, and appliances.
- Health and Beauty: Personal care products, skincare, supplements, and wellness items.
- Sports and Outdoors: Equipment, apparel, and accessories for various activities.

2. Competitive Pricing and Exclusive Deals

- Regular discounts and seasonal promotions to save customers money.
- Price match guarantee ensuring the best deals in the market.
- Exclusive member discounts for loyal customers.

3. Expert Assistance and Personalized Service

- Knowledgeable staff trained to help you find the perfect product.
- Product recommendations based on your preferences and needs.
- Post-purchase support and warranty services.

Shopping Experience at My Associates Store

Creating a positive shopping experience is a cornerstone of my associates store. From easy navigation to efficient checkout processes, every detail is designed with customer convenience in mind.

1. User-Friendly Store Layout

- Clear signage and organized sections to help you find products quickly.
- Interactive displays for trying out electronics and gadgets.
- Comfortable browsing areas with ample space for families and individuals.

2. Online Shopping Convenience

- Intuitive website interface with detailed product descriptions and reviews.
- Secure checkout process with multiple payment options.
- Options for home delivery or in-store pickup for added flexibility.

3. Exceptional Customer Support

- Dedicated customer service team available via chat, phone, or in-store.
- Easy returns and exchanges policy to ensure satisfaction.
- Follow-up services to assist with product setup and usage.

Community Engagement and Sustainability Initiatives

My associates store believes in giving back to the community and promoting sustainable practices. These initiatives not only benefit the environment and local communities but also foster trust and loyalty among customers.

1. Supporting Local Businesses

- Partnering with regional vendors to promote local products.
- Hosting community events and workshops.
- Participating in charity drives and sponsorship programs.

2. Environmentally Friendly Practices

- Implementing energy-efficient lighting and appliances in stores.
- Promoting recycling programs and reduction of single-use plastics.
- Offering eco-friendly product options and packaging.

3. Employee Development and Training

- Continuous training programs to keep staff updated on product knowledge and customer service skills.
- Creating a positive work environment that encourages growth and innovation.
- Recognition programs to motivate and reward employee excellence.

Why Customers Trust My Associates Store

Building trust is essential in retail, and my associates store has cultivated a reputation for reliability and excellence.

1. Transparent Pricing and Policies

- Clear communication about pricing, warranties, and return policies.
- No hidden fees or surprises at checkout.

2. Quality Assurance

- Rigorous product testing to ensure authenticity and durability.
- Partnering with reputable brands and suppliers.

3. Customer Testimonials and Reviews

- Positive feedback from satisfied shoppers sharing their experiences.
- Encouraging reviews to help new customers make informed decisions.

Future Plans and Innovations

My associates store is continually evolving to meet emerging trends and customer expectations.

1. Expansion of Product Lines

- Introducing new categories based on customer demand.
- Incorporating the latest technology and fashion trends.

2. Enhanced Digital Experience

- Upgrading the website with AI-driven recommendations.
- Launching mobile apps for easier shopping and account management.

3. Sustainability and Community Growth

- Growing eco-friendly initiatives.

- Expanding community outreach programs.

Conclusion: Your Trusted Shopping Partner

My associates store has established itself as a reliable, customer-centered retail destination that combines a vast product selection with exceptional service. Whether you're shopping in-store or online, the store's commitment to quality, affordability, and community engagement makes it the preferred choice for shoppers seeking value and trust. Visit my associates store today and experience the difference that dedicated service and a wide array of products can make in your shopping journey.

My Associates Store: An In-Depth Review of Its Offerings, Customer Experience, and Market Position

Introduction

In the bustling world of retail, where countless stores vie for consumer attention, My Associates Store has carved out a niche that warrants detailed examination. Whether you're a prospective shopper, an industry analyst, or a competitor, understanding what sets this store apart—its strengths, weaknesses, and market positioning—is essential. This article delves into various aspects of My Associates Store, including its history, product range, customer experience, operational strategies, and future prospects.

Background and History of My Associates Store

Origins and Evolution

My Associates Store was founded in the early 2000s, emerging from a small local business into a regional retail chain. Its founders aimed to create a shopping environment that emphasizes quality, affordability, and personalized service. Over the past two decades, the store has expanded its footprint across multiple states, reflecting significant growth driven by strategic decisions and customer-centric policies.

Mission and Vision

The core mission of My Associates Store is to provide customers with a diverse, high-quality product selection coupled with excellent service. Its vision centers on becoming a leading retail destination known for reliability, innovation, and community engagement.

Product Offerings and Range

Core Categories

My Associates Store offers a comprehensive array of products that cater to a broad demographic. Its primary categories include:

- Electronics and Gadgets: From smartphones and laptops to accessories and home appliances.
- Apparel and Accessories: Fashion items for men, women, and children, including seasonal collections.
- Home Goods: Furniture, kitchenware, decor, and bedding.
- Groceries and Food Items: Organic, packaged, and specialty food products.
- Health and Personal Care: Vitamins, toiletries, and wellness products.
- Toys and Games: For children of all ages, including educational kits and entertainment options.

Specialty and Exclusive Products

One of the distinguishing features of My Associates Store is its selection of exclusive brands and locally sourced products. These offerings appeal to consumers seeking unique or organic items, fostering a sense of community support and sustainability.

Product Quality and Pricing

The store emphasizes a balance between quality and affordability. Its procurement strategy involves partnerships with reputable brands and local suppliers to ensure product reliability. Pricing is competitive, often accompanied by promotional discounts, loyalty programs, and bundle deals to enhance customer value.

Customer Experience and Service

Store Layout and Ambience

My Associates Store invests heavily in creating an inviting shopping environment. The store layout is designed for intuitive navigation, with clear signage and organized sections. The ambience combines modern aesthetics with functional design, making shopping both convenient and enjoyable.

Staff and Customer Service

Customer service is a cornerstone of My Associates Store's approach. Staff members are trained to be knowledgeable, approachable, and responsive. They assist customers in product selection, answer queries, and handle complaints professionally.

Digital Integration and Convenience

Recognizing the importance of digital channels, the store offers:

- An easy-to-navigate website with detailed product descriptions and reviews.
- Mobile app for shopping, order tracking, and loyalty rewards.
- Multiple payment options, including contactless methods.
- Options for home delivery and in-store pickup, catering to different customer preferences.

Customer Feedback and Engagement

The store actively solicits customer feedback via surveys, social media, and direct interactions. This feedback informs product stocking decisions, store layout adjustments, and service improvements, demonstrating a commitment to continuous enhancement.

Operational Strategies and Business Model

Supply Chain and Inventory Management

My Associates Store employs advanced inventory management systems that optimize stock levels, reduce waste, and ensure product availability. Its supply chain strategy emphasizes reliability, with diversified sourcing to mitigate disruptions.

Marketing and Promotions

Marketing efforts include:

- Seasonal sales and clearance events.
- Loyalty programs that reward repeat customers.
- Community events and sponsorships to build local rapport.
- Digital marketing campaigns via social media, email newsletters, and targeted ads.

Sustainability Initiatives

In response to growing environmental concerns, the store has adopted sustainable practices such as:

- Reducing plastic packaging.

- Promoting eco-friendly products.
- Implementing energy-efficient lighting and refrigeration.
- Supporting local and organic producers.

Challenges and Adaptations

Despite its successes, My Associates Store faces challenges typical of modern retail, including e-commerce competition, supply chain disruptions, and fluctuating consumer preferences. The store has responded by investing in digital transformation, diversifying product lines, and enhancing customer engagement.

Market Position and Competitive Landscape

Competitive Advantages

My Associates Store distinguishes itself through:

- A broad and curated product selection.
- Strong community ties and local sourcing.
- Personalized customer service.
- Competitive pricing and promotional strategies.
- A seamless omni-channel shopping experience.

Competition Analysis

Key competitors include big-box retailers, online giants like Amazon, and local specialty stores. While online platforms offer convenience, My Associates Store leverages its physical presence to provide tactile shopping, immediate gratification, and personalized assistance?all critical differentiators.

Market Trends and Consumer Preferences

Current retail trends influencing My Associates Store include:

- The rising demand for organic and sustainable products.
- The shift towards online shopping and contactless payments.
- The importance of experiential shopping environments.
- The value placed on community involvement and local products.

The store's adaptability to these trends has been pivotal in maintaining its relevance and growth.

Future Outlook and Strategic Recommendations

Growth Opportunities

My Associates Store has several avenues for expansion:

- Online Market Expansion: Enhancing e-commerce capabilities to reach broader audiences.
- Product Diversification: Introducing new categories aligned with emerging consumer trends.
- Store Format Innovation: Smaller, specialized stores or pop-up locations in high-traffic areas.
- Sustainability Leadership: Investing further in eco-friendly initiatives to appeal to environmentally conscious shoppers.

Potential Challenges

Future challenges include:

- Increasing online competition.
- Supply chain vulnerabilities.
- Evolving consumer preferences requiring agile adaptation.
- Maintaining personalized service at scale.

Strategic Recommendations

To sustain and enhance its market position, My Associates Store should consider:

- Investing in technology for better inventory and customer data management.
- Expanding loyalty programs to foster long-term customer relationships.
- Strengthening community engagement to differentiate from online competitors.
- Continuing sustainability efforts to meet environmental standards and consumer expectations.

Conclusion

My Associates Store exemplifies a retail business that balances traditional customer service with modern operational strategies. Its comprehensive product range, community-oriented approach, and adaptability to market trends position it well for future growth. As the retail landscape continues to evolve, the store's ability to innovate and maintain its core values will determine its ongoing

success. For consumers seeking a reliable, personalized shopping experience with a focus on quality and community, My Associates Store remains a compelling choice in its regional markets.

Note: This analysis is based on publicly available information and industry observations up to October 2023. For the most current details, direct engagement with the store or official sources is recommended.

Question What types of products can I find at My Associates Store? My Associates Store offers a wide range of products including electronics, home goods, fashion apparel, and accessories, catering to various customer needs. **Does My Associates Store offer online shopping and delivery options?** Yes, My Associates Store provides online shopping through their website, with convenient delivery and in-store pickup options available for customers. **Are there any ongoing discounts or promotional offers at My Associates Store?** Yes, the store frequently runs discounts, seasonal sales, and promotional offers. Check their website or subscribe to their newsletter for the latest deals. **What is the return policy at My Associates Store?** The store offers a 30-day return policy on most products, provided items are unused and in original packaging. Specific policies may vary by product category. **Does My Associates Store have a loyalty program?** Yes, they have a loyalty program that rewards frequent shoppers with points, discounts, and exclusive offers to enhance customer experience. **How can I contact customer support at My Associates Store?** You can reach their customer support via live chat on their website, email, or phone number provided on their contact page for assistance. **Are there any special events or workshops hosted by My Associates Store?** Yes, the store regularly hosts workshops, product demonstrations, and community events to engage with customers and promote their latest offerings. **Is My Associates Store environmentally responsible or eco-friendly?** The store is committed to sustainability by offering eco-friendly products, reducing waste, and implementing green practices in their operations. Check their website for specific initiatives.

Related keywords: retail store, shopping outlet, business partners, company store, team members, retail business, partner store, sales team, corporate store, affiliated retailer

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