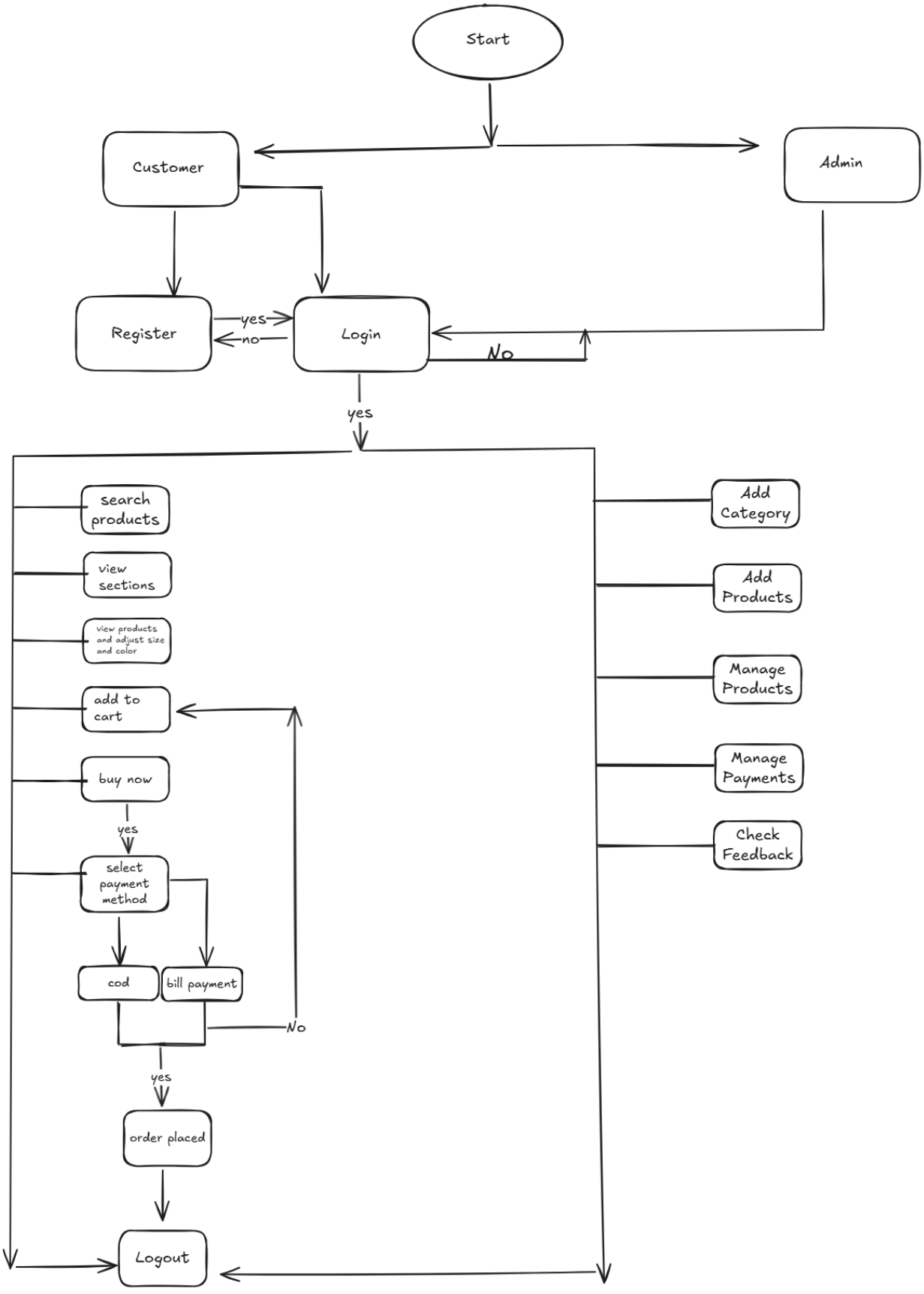
Day 2 Planning the Technical Foundation



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User Interface

My front-end will leverage **Next.js** and **Tailwind CSS**, two of the best tools for creating modern, responsive, and highly efficient websites. The interface will be designed to enhance user experience while maintaining a clean and professional look.

- **Home Page:** The primary landing page will highlight featured products, exclusive deals, new arrivals, and promotions to engage customers right away.
- **Product Page:** A detailed product display with high-quality images, information about available sizes, colors, customer reviews, and ratings to help users make informed decisions.
- **Admin Panel:** A secure and intuitive interface for administrators to efficiently manage the store's inventory, process orders, and oversee user accounts.
- **Cart Section:** A comprehensive summary of items added to the cart, with options to adjust quantities, remove products, or proceed to checkout for a seamless shopping experience.
- **Checkout Page:** The final step where customers can input shipping details, select a payment method, and securely complete their purchase with ease.

This design ensures a smooth and enjoyable experience for both customers and administrators.

Backend Management

For efficient and cost-effective backend data management, I will utilize **Sanity CMS**, a robust and flexible headless content management system. Its user-friendly interface and scalability make it an excellent choice for managing dynamic content and it will act as the primary backend to manage products data, customer details, and order records

- **Sanity CMS:** Sanity provides a powerful platform for managing and organizing content seamlessly across multiple platforms. It supports structured content creation and real-time collaboration, allowing easy updates and content customization.

Additionally, Sanity's API-first approach ensures smooth integration with my Next.js frontend, offering enhanced flexibility for dynamic updates. Its rich features, such as custom schemas and real-time data synchronization, make it a reliable choice for building a scalable e-commerce backend system.

By choosing Sanity CMS, I aim to simplify backend operations while delivering a fast and consistent user experience.

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APIs

To create a professional and efficient website, I will integrate various APIs to enhance functionality and provide a seamless user experience.

- **Shipment API:** Facilitates the tracking and management of order deliveries, ensuring timely transportation of goods from the seller to the buyer. This will include real-time tracking, delivery notifications, and estimated arrival times to build customer trust.
- **Payment API:** Enables secure and efficient money transfers from buyers to sellers. It will support multiple payment methods, including credit/debit cards, mobile wallets, and other online payment solutions, ensuring convenience and safety.
- **Authorization API:** Ensures user and payment security by verifying credentials, protecting sensitive data, and preventing unauthorized access. This step is crucial for maintaining the website's integrity and user trust.

Additional APIs, such as **inventory management** and **customer service integration**, may also be included to streamline operations, keep stock levels updated in real time, and provide quick support to users, further enhancing the overall user experience.

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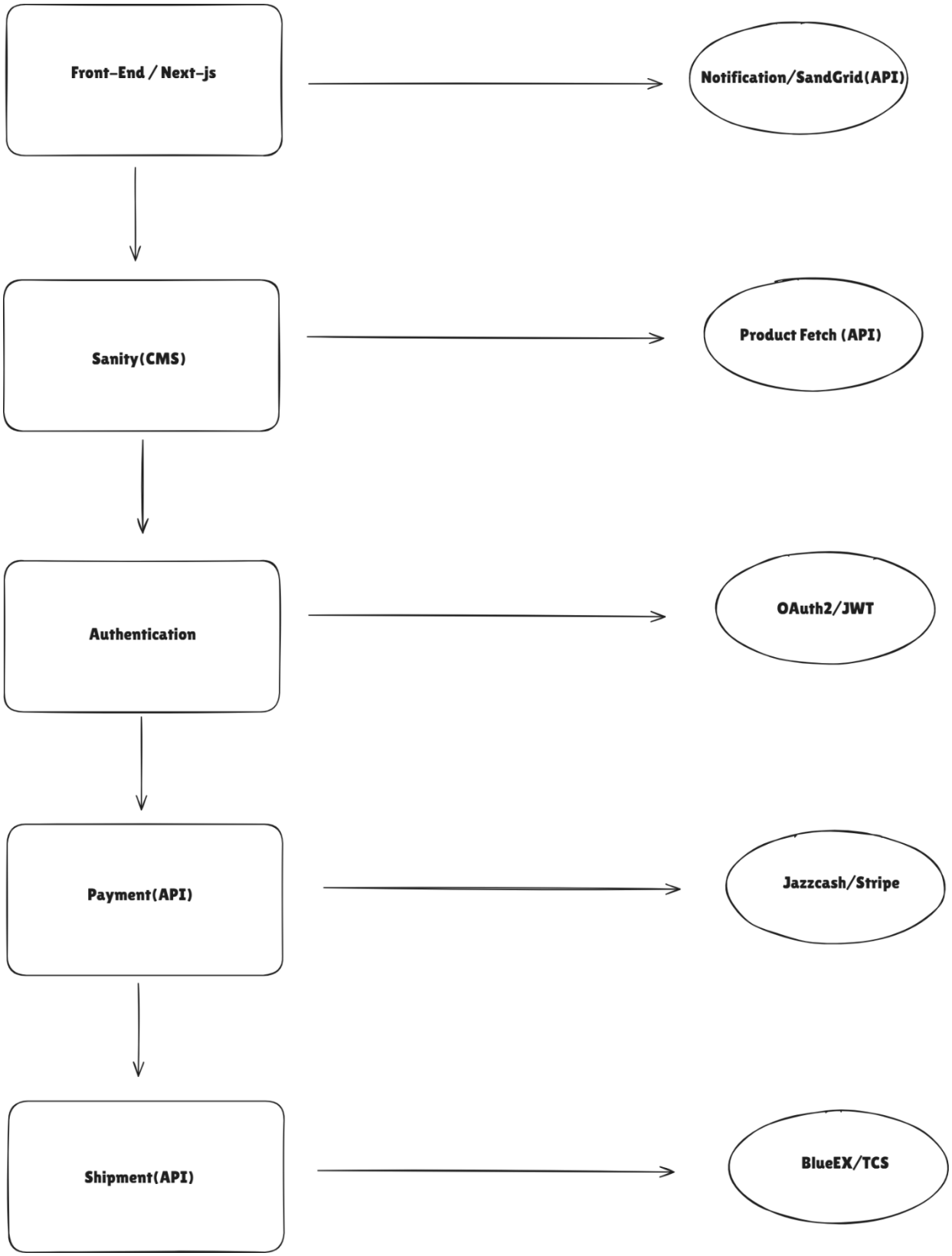

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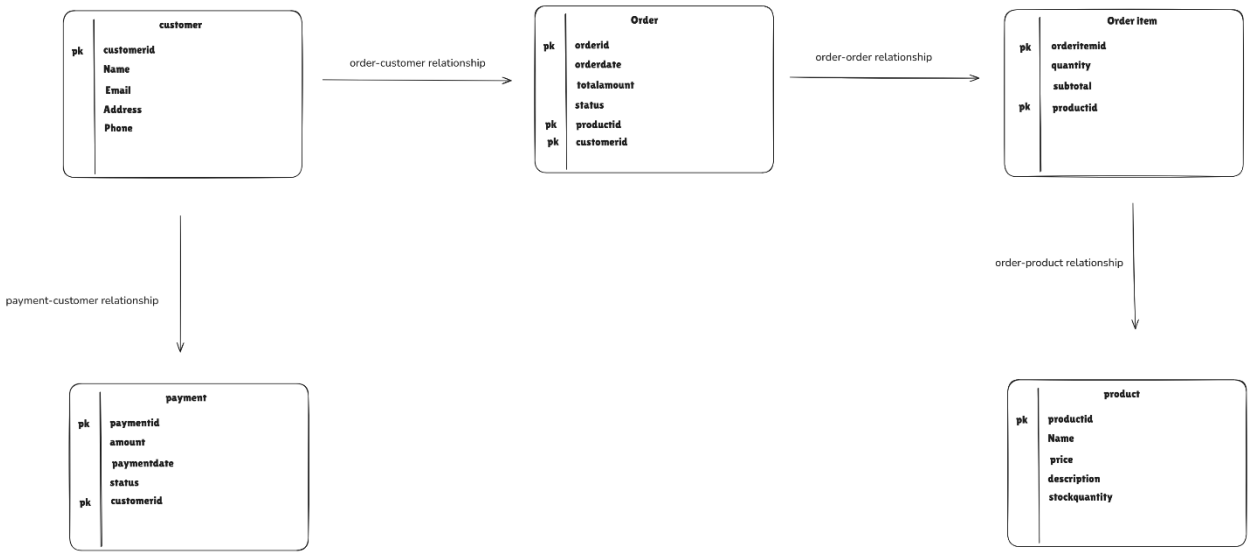
Entities Relationship