

E-Commerce Web Application: SHOP-EZ

This presentation will explore the technical architecture and features of an e-commerce web application, showcasing the user journey and the robust backend infrastructure powering it.



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Home Page

Product Showcase

Features a curated selection of products, highlighting new arrivals and promotions.

Search Functionality

Enables users to quickly find specific products based on keywords or filters.

User Account Access

Provides easy access to login, signup, and user profile information.

Cart Page

Product List

Displays the items added to the cart, including quantity and individual prices.

Checkout Button

Allows users to proceed to the payment page and complete their purchase.

Cart Management

Enables users to update quantities, remove items, and apply discount codes.

Payment Page



Secure Payment Gateway

Integrates with reputable payment providers for secure transactions.



Multiple Payment Options

Supports various payment methods, including credit cards, debit cards, and digital wallets.



Order Confirmation

Generates a confirmation email with order details upon successful payment.

Sign Up

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Per password



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Login and Signup Page

1

Login: Allows existing users to access their accounts.

2

Signup: Enables new users to create accounts, providing basic personal information.

3

Password Reset: Facilitates recovery of forgotten passwords.

Overview of Tech Stack

Frontend: React.js

Handles user interface and interactions, rendering dynamic content.

Backend: Node.js and Express.js

Powering server-side logic, handling API requests and data management.

Database: MongoDB

A NoSQL database storing product information, user data, and order history.

Recent

Name

Tmail ▾

Addrent

User Dashboard

1

Order History

Displays a list of previous orders, including status and details.

2

Account Management

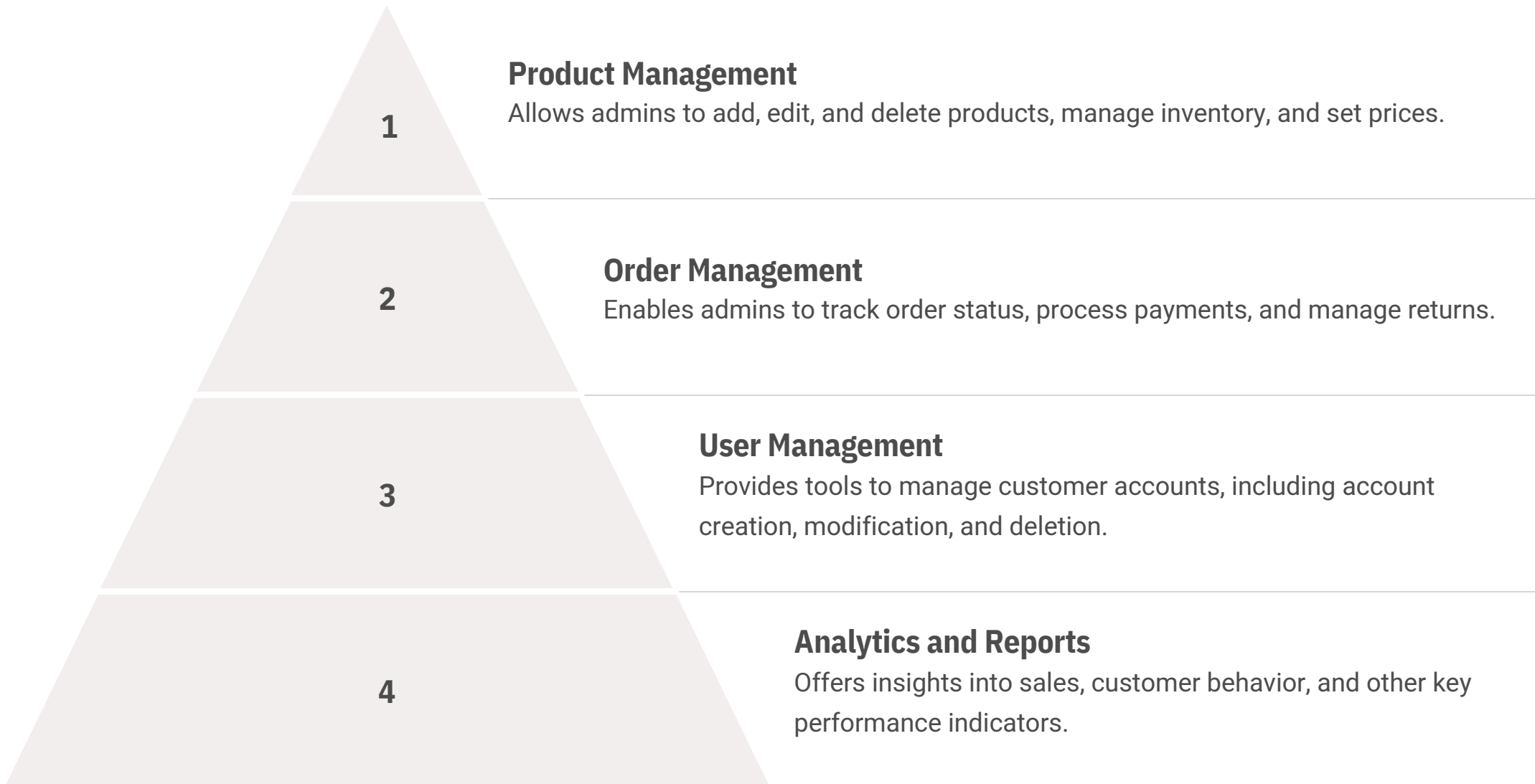
Allows users to update personal information, payment details, and shipping addresses.

3

Wishlist

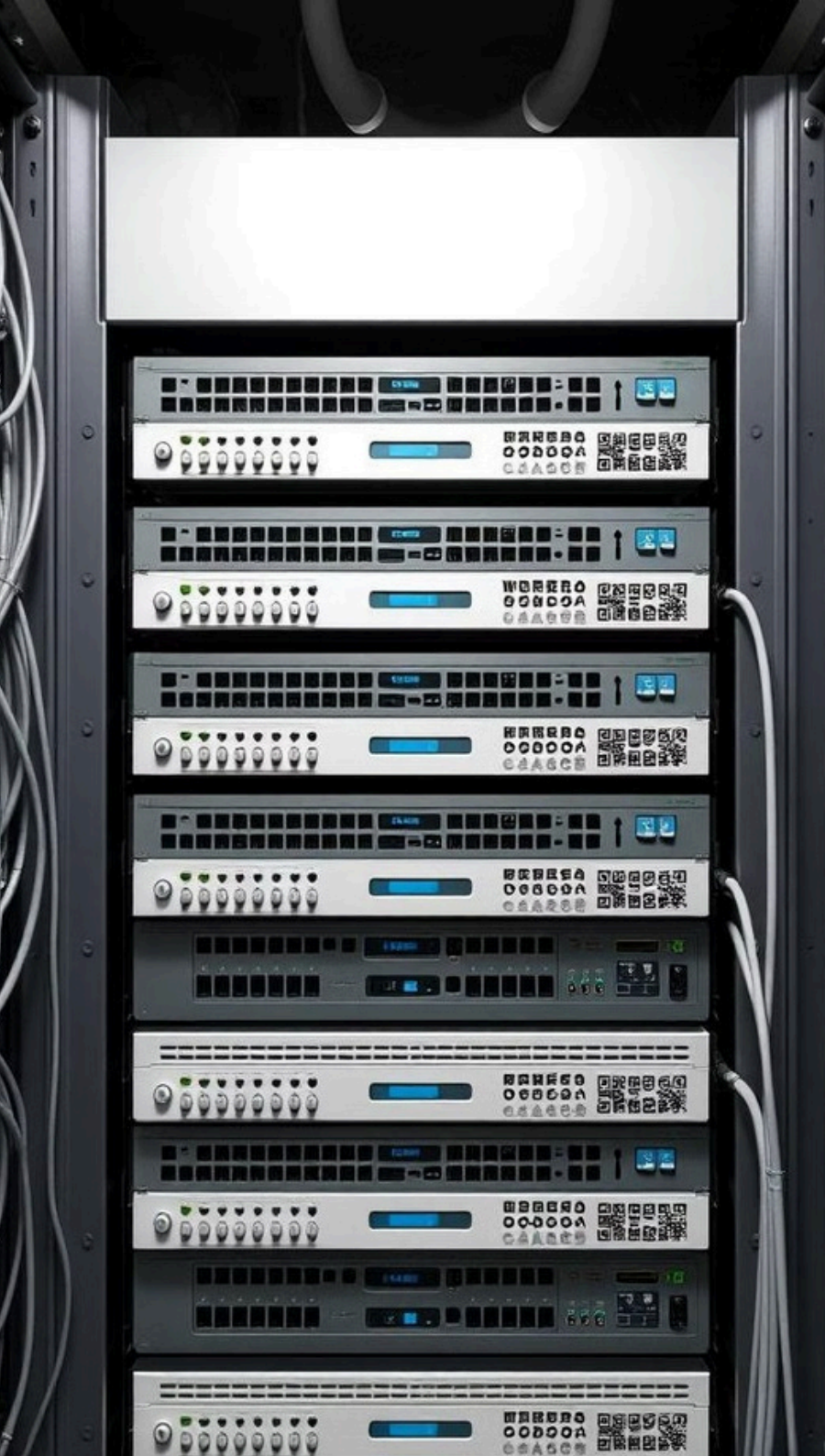
Saves products for future reference, making it easy to revisit and purchase.

Admin Dashboard



Database Design

1	Products Stores information about each product, including name, description, price, and images.
2	Users Manages user profiles, including login credentials, contact information, and order history.
3	Orders Tracks order details, including customer information, products purchased, and payment details.



Deployment and Hosting

1

Deployment

The web application is deployed on a secure server environment.

2

Hosting

It is hosted on a reliable cloud platform for scalability and performance.

3

Security

Security measures are implemented to protect sensitive data and ensure user privacy.