# Technical Roadmap - Peerzada Store (Day 2)

## **Introduction:**

This document outlines the technical roadmap for the development and implementation of Peerzada Store, an E-commerce platform specialising in customised gifts. The roadmap ensures alignment with business goals, detailed technical planning, and efficient execution of workflows to deliver a high-quality, scalable, and user-friendly platform.

## **Project Milestones:**

## Milestone 1: Set Up Sanity CMS Backend

- **Objective:** Establish a robust backend using Sanity CMS to manage product, order, and customer data.
- Tasks:
  - 1. Design and implement schemas for:
    - Products:
      - Fields: ProductID, Name, Category, Price, Stock, CustomisationOptions.
    - Orders:
      - Fields: OrderID, CustomerID, Products, TotalAmount, Status, Timestamp.
    - Customers:
      - Fields: CustomerID, Name, ContactInfo, City, OrderHistory.
    - Packaging Options:
      - Fields: PackageID, DesignName, Material, Price, Availability.
  - 2. Configure Sanity's Content Studio for ease of data entry and management.
  - 3. Set up roles and permissions for secure backend access.
- Deliverables:
  - Sanity CMS schemas for all entities.
  - o Functional backend with a Content Studio interface.

## Milestone 2: Develop Frontend Pages (Next.js)

- **Objective:** Create a responsive and user-friendly interface for customers to browse, customise, and order products.
- Tasks:
  - 1. Design and implement the following pages:
    - Home Page:
      - Hero banner with CTAs (e.g., "Start Customising Now").
      - Category tiles for Wallets, Keychains, Pens, Frames, and Packaging.
      - Featured Products carousel.
    - Product Listing Page:
      - Display product categories with filtering and sorting options.
    - Product Details Page:
      - Customisation options with live preview.
      - Add-to-cart functionality.
    - Cart Page:

- List of added products with edit/remove options.
- Display total amount and estimated delivery.
- Checkout Page:
  - Form for delivery details and payment options.
- Order Confirmation Page:
  - Display order summary and tracking details.
- 2. Ensure responsive design for seamless access on mobile and desktop devices.
- 3. Integrate frontend with Sanity CMS to dynamically fetch and display data.
- Deliverables:
  - o Fully functional and responsive frontend pages.
  - o Dynamic integration with Sanity CMS.

## **Milestone 3: API Integration**

- **Objective:** Enable core functionalities like payment processing and shipment tracking through API integration.
- Tasks:
  - 1. Integrate APIs for:
    - Payment Gateway:
      - Secure payment processing (e.g., Cash on Delivery, Cards, Bank Transfer).
    - Shipment Tracking:
      - Fetch real-time delivery updates via third-party APIs.
  - 2. Develop custom endpoints to:
    - Fetch products: /products (GET).
    - Create orders: /orders (POST).
    - Track shipments: /shipment (GET).
  - 3. Test all API interactions for reliability and security.
- Deliverables:
  - o Integrated payment gateway.
  - o Real-time shipment tracking system.

#### Milestone 4: Test and Refine Workflows

- **Objective:** Validate the platform's functionality, usability, and performance.
- Tasks:
  - 1. Conduct end-to-end testing:
    - Product browsing, customisation, and ordering workflows.
    - Payment processing and shipment tracking.
  - 2. Perform usability testing to identify and fix UI/UX issues.
  - 3. Optimize loading times and responsiveness.
  - 4. Address any bugs or inconsistencies found during testing.
- Deliverables:
  - o Comprehensive test report.
  - o Optimised and bug-free platform.

## **Milestone 5: Deployment**

- **Objective:** Launch Peerzada Store on a secure and scalable hosting environment.
- Tasks:
  - 1. Set up a hosting environment (e.g., Vercel for frontend, Sanity's cloud infrastructure for backend).

- 2. Deploy the platform with SSL for secure connections.
- 3. Configure DNS settings for a custom domain (e.g., peerzadastore.com).
- 4. Monitor live performance and address post-launch issues.
- Deliverables:
  - o Fully deployed E-commerce platform.
  - o Monitoring setup for performance tracking.

# **Key Features to Implement:**

- Customisation Studio:
  - o Interactive tool for real-time customisation previews.
- Luxurious Gift Packaging:
  - o Dynamic packaging options with customisable tags and ribbons.
- Karachi Express Delivery:
  - o Same-day delivery option for Karachi customers.
- Subscription Plans:
  - o Monthly/quarterly curated gift boxes.

## **Technical Stack:**

- Frontend: Next.js
- Backend: Sanity CMS
- Payment Gateway: Third-party API (e.g., Stripe, local banking solutions).
- Shipment Tracking: Integration with local courier APIs.
- **Hosting:** Vercel (frontend), Sanity Cloud (backend).

## **Timeline:**

- Week 1: Set up Sanity CMS and develop schemas.
- Week 2: Build and test frontend pages.
- Week 3: Integrate APIs and validate workflows.
- Week 4: Conduct end-to-end testing and deploy the platform.