Announcement Q2:

Day-1

The Marketplace Builder Hackathon 2025 will officially start on 15th January at 12:00 AM and continue until 21st January. Make sure to complete your Practice Hackathon by today, 12th January.

Proposal for Online Medical Store

1. Executive Summary

This proposal outlines the plan to establish an online medical store providing easy access to medicines, health products, and medical consultations. The platform aims to serve as a one-stop solution for customers to purchase authentic medical supplies conveniently.

2. Objectives

Ensure 24/7 accessibility to medicines and health products.

Deliver a user-friendly platform for browsing and ordering.

Provide reliable delivery services to urban and remote areas.

Maintain high standards for product authenticity and customer data security.

Support with additional features like online doctor consultations.

3. Target Audience

Individuals requiring regular prescriptions.

Busy professionals preferring online shopping.

Patients in remote areas with limited access to medical supplies.

Elderly or differently-abled individuals who face mobility challenges.

4. Key Features

Product Catalog: A comprehensive list of medicines, health supplements, medical devices, and personal care products.

Prescription Upload: Customers can upload prescriptions for quick processing.

Search and Filter Options: Easy navigation to find products based on categories, brands, or ailments.

Online Consultation: Access to certified medical professionals for advice and prescription renewals.

Secure Payment Options: Multiple payment modes including COD, credit/debit cards, and digital wallets.

Fast Delivery: Options for express delivery within hours for urgent needs.

5. Technology Stack

Frontend: React.js, Next.js, or Angular for a responsive and engaging user interface.

Backend: Node.js or Django for efficient and secure processing.

Database: MySQL or MongoDB for robust storage and retrieval of user and product data.

Payment Gateway: Integration with secure providers like Stripe or PayPal.

6. Marketing Strategy

Launch digital campaigns on social media and search engines.

Offer discounts for first-time users and subscription services.

Partner with local pharmacies for inventory and distribution.

Use SEO to rank higher on search engines for relevant keywords.

7. Financial Projections

Initial Investment: Website/app development, marketing, and inventory setup.

Revenue Streams: Product sales, consultation fees, and potential affiliate marketing.

Break-even Analysis: Expected within the first 12-18 months of operation.

8. Legal and Ethical Considerations

Obtain necessary licenses for selling medical products online.

Adhere to data protection laws to safeguard customer information.

Comply with local regulations for pharmaceutical e-commerce.

9. Conclusion

The online medical store offers a scalable solution to bridge the gap in healthcare accessibility and convenience. With a clear strategy and commitment to customer satisfaction, the venture is poised for sustainable growth.

Best Regard

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Day-2

ONLINE MEDICAL STORE

Hackathon Day 2: Planning the Technical Foundation

Day 2 Goal

The primary goal of Day 2 is to transition from the business-oriented planning of Day 1 to the technical preparation required to build **Online Medical Store**. Today, you will create a high-level technical plan, including system architecture, workflows, and API requirements, which will act as a blueprint for the implementation phase. This planning stage ensures alignment with the business goals defined on Day 1, setting a solid foundation for success.

This step leverages tools like **Sanity CMS** and third-party APIs to simplify backend requirements, enabling focus on delivering a scalable and effective solution. Following industry best practices, you will create a robust plan tailored to launch a functional **Online Medical Store** within the hackathon timeline.

Recap of Day 1: Business Focus

On Day 1, the focus was on defining business requirements for **Online Medical Store**. Key accomplishments included:

1. **Business Goals Defined:**
   o Identified the problem: Providing accessible and affordable medical supplies.
   o Defined the target audience: Patients, healthcare professionals, and pharmacies.
   o Established a unique value proposition: A centralized platform for reliable, quality-assured medical supplies with real-time availability tracking.
2. **Data Schema Drafted:**
   o Preliminary schema included entities like products (medicines), customers, orders, and suppliers.
3. **Single Focus:**
   o Concentrated solely on business requirements without diving into technical details, ensuring clarity and focus.

These achievements laid the groundwork for technical planning on Day 2.

Day 2 Activities: Transitioning to Technical Planning

1. Define Technical Requirements

Translate business goals into clear technical requirements for **Online Medical Store**:

- **Frontend Requirements:**
    - User-friendly interface for browsing medicines and medical supplies.
    - Responsive design for both mobile and desktop users.
    - Essential pages: Home, Product Catalog, Product Details, Cart, Checkout, Order Confirmation, and Account Management.
- **Sanity CMS as Backend:**
    - Manage product inventory, customer records, and order history.
    - Design schemas aligned with Day 1 business goals.
- **Third-Party APIs:**
    - Integrate APIs for shipment tracking, payment gateways, and pharmacy verification.
    - APIs should provide seamless frontend functionality.

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2. Design System Architecture

Create a high-level diagram showing system component interactions:

Example Architecture:

```
[Frontend (Next.js)]
   |
[Sanity CMS] -------> [Product Data API]
   |
[Third-Party API] --> [Shipment Tracking API]
   |
[Payment Gateway]
```

Key Workflows:

1. **Product Browsing:**
    - User views products -> Sanity API fetches data -> Products displayed dynamically.
2. **Order Placement:**
    - User adds items to the cart -> Proceeds to checkout -> Order details saved in Sanity.
3. **Shipment Tracking:**
    - Shipment status fetched from third-party API -> Displayed in user dashboard.

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3. Plan API Requirements

Define endpoints required for **Online Medical Store**:

- **Endpoint:** `/products`
  - **Method:** GET
  - **Description:** Fetch all available medicines.
  - **Response:** `{ "id": 1, "name": "Paracetamol", "price": 50 }`
- **Endpoint:** `/orders`
  - **Method:** POST
  - **Description:** Save new order details.
  - **Payload:** `{ "customerId": 123, "productId": 1, "quantity": 2 }`
- **Endpoint:** `/shipment`
  - **Method:** GET
  - **Description:** Track order shipment status.
  - **Response:** `{ "orderId": 123, "status": "In Transit" }`

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4. Write Technical Documentation

Document system architecture, workflows, and API requirements using structured formats:

1. **System Architecture Overview:**
   - Include diagrams showing component interactions.
2. **API Specification Document:**
   - List endpoints, methods, and payloads.
3. **Data Schema Design:**
   - Define entities like medicines, orders, and suppliers in Sanity CMS.

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5. Collaborate and Refine

- Share drafts with peers and mentors for feedback.
- Use version control tools (e.g., GitHub) for collaboration.

Key Outcome of Day 2

By the end of Day 2, you will have:

1. A comprehensive technical plan for **Online Medical Store.**
2. Detailed system architecture and API requirements.
3. Drafted Sanity CMS schemas for essential entities.

Submission Guidelines

- **Title:** Marketplace Technical Foundation - Online Medical Store
- **Structure:** Include all sections as outlined.
- **Repository:** Upload documentation and diagrams to a dedicated folder.

Best Regard

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