## HACKATON #03

# DAY 2:- Planning the Technical foundation

## God of the Day:

The primary goal of Days
is to transition from business - oriented
Planning to technical preparation by
Creating a high-level technical plan. The
focus is on:

Designing System architecture.

Defining workflows and API requirements.

Aligning technical Solution with business

goals for a Scalable and Efficient

marketplace.

## ACTIVITIES: Ivansitioning to

Technical Planning

STEP1: Define Technical Requirements

#### 1. Frontend Requirements:

- A responsive, user-friendly interface box browsing furniture products.
- Product Details, Cart, Checkout, and order Confirmation.

#### 2. Sanity CMS for Backend:

- \* Manage Product data, Customer details, and orders
- \* Align Schemas in Sanity CMS with the data Structure defined in Doy1

#### 3. Third-Party APIS:

Integrated API's for Shipment tracking and secure payment processing.

### STEP 2: Design System Architecture

A detailed architecture was created Showing interactions between the frontend

(e.g. React/Next.js), Sanity cine, and third-party APIS.
and third-party APIS.
* Example Workflow:
1. A user browses the market place.
2. Product data is fetched from Sanity CMR.
3. Orders are recorded in Sanity CMs
and updated via APIs for shipment tracking and payment processing.
STEP 3: Define API Requirements
Drafted API endpoints, based on the business Schema:
1. Endpoint: / Products:
* Method: CET
* Purpose: Fetch product details (e.g., furniture name, price, availability).
(e.g., furniture name, price, availability).

## 2. Endpoint: / orders Method: Posi Purpose: Save new orders, including : Customer and product details. 3. Endpoint: / Shipment \* Method: CET Purpose: Fetch Shipment status for Exacking. STEP 4: Create Technical Documentation To mainly clarity and structure: System Architecture Document: Outlines Component interactions. API Specification Document: Lists endpoints, methods, and responses.

\* Workflow Diagram:

Visualizes user actions (e.g., Product

browsing to order placement).

#### STEP5: Incorporate Feedback

tor insights on scalability, performance, and user experience improvements.

#### Conclusion:

By the end of Day 2, whe Successfully defined the technical foundation of our furniture marketplace. This includes a robust system architecture, ApI requirements, and technical clocumentation aligned with the business goals from Day 1.

These steps ensure that the platform Will be scalable, uses-friendly, and ready to the implementation phase on Day 3.