15-1-2025 (Wednesday) Hackathon Day # 01 Task

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Day: Sunday

Time: 9:00 AM - 12:00 PM

Step # 01: Choose your Marketplace Type.

Choice: General E-commerce

Primary Purpose: The primary purpose of an e-commerce website is to facilitate the buying and selling of products or services Online. It serves as a digital marketplace, enabling businesses to reach a wider audience and providing customers with the convenience of shopping anytime and anywhere. This makes transactions faster, more efficient, and accessible in today's digital-first world.

Step # 02: Define your Business Goals
Answer these guiding questions:

91: What problem does your marketplace aim to solve?

Ans: A marketplace aims to solve the problem
of connecting businesses with customers in a
convenient and efficient way. It helps businesses
expand their reach, reduce costs, and
streamline operations, while providing customers
with an easy-to-use platform to find, compare,

and purchase products or services from anywhere at any time.

92: Who is your target audience?

Ans: The target audience for a market place depends on the type of products or services it offers. Generally, it includes:

1. Consumers: Individuals looking for convenience, variety, and competitive pricing while shopping online.

2. Businesses: Sellers, small businesses, and brands seeking a platform to reach a larger customer base and grow their sales.

3. Niche Markets: Specific groups with unique needs, such as eco-conscious shoppers, tech enthusiasts,

or hobbyists.

4. B2B clients: Companies or professionals purchasing bulk products, supplies, or specialized services.

Ans: The products or services will you offer?

Ans: The products or services offered by a market place will be determined by its niche and the target audience it serves. For example.

1. Physical Products: clothing, electronics, home appliances. toys, beauty products, etc.

2. Digital Products: software, e-books, music, online courses, and oligital art.

3. Services: Freelance work, consulting, tutoring, graphic design, and other professional services

- 4. Handmade on custom products: Unique, ortisan products such as crafts, jewelry, or personalized gifts.
- 5. Fashion and Accessories: Clothing, jobtwear, handbags, jewelry, and bashion accessories.
- 84: What will set your marketplace apart (e.g., speed, affordability, customization)?
- Ans: Speed: Fast and reliable delivery services to ensure customers receive their orders.
  - > Affordability: Providing competitive pricing, special discounts, and exclusive deals to ensure value box money.
  - Customization: Offering personalized products and tailoxed recommendations based on customer preferences.
  - -> User. Friendly Intuface: A simple, easy-to.
    navigate platform that enhances the shopping
    experience
  - Jeatures for safe and secure online payments.

    Justainability: A Jours on eco-priendly

    products and sustainable business practices

Step # 03: Create a Dala Schema.

1. Identify the entities in your marketplace (e.g., Products, Orders, Customers, Delivery Zones).

Products: The items listed for sale, including details like name, description, price, availability, and category.

. Orders: Customer purchases, including order details, product information, payment status, and shipping

status

on the marketplace, with personal information,

purchase history, and preferences

Jor sale, with information on their profile,

inventory, and order history.

\* Payments: Payment transactions for orders, including payment method, status, and transaction history.

Delivery zones: Geographical areas where products can be shipped, with information on shipping costs,

delivery times, and service availability.

Reviews and Ratings: Customer jeedback on products and sellersts which includes ratings, reviews, and comments

" Shopping cart: The collection of products selected by a customer before proceeding to checkout.

- and discounts applied to products or orders.
- Inventory: The stock of products available box sale, managed by sellers and tracked by the market place.

## Entities:

1. Product	4. Payment	6. Delivery Zone
· ID	· Payment ID	. Delivery Zone ID
· Name	· Onder ID	. zone Name
· Price	· Amount	. Shipping cart
· stock	· Payment Method	. Estimated a
2. Order	· Payment Status	delivery
. Order ID	5. Review	Time
· Product ID	. Review ID	
· Quantity	. Customer ID	
3. Customer	. Product 10	
. Customer ID	· Rating	
· Name	· comment	Market State of the State of th
· contact into	Same partial sections	

## Relationships:

- . A product can appear in many Orders (many-to-many relationship).
- . An Order is placed by a customer (one-to-many relationship)
- . Customer can write multiple reviews for different products (one-to-many relationship).

## Schema Diagram:

[Product] --- [customer]

- ID - Order ID

- Name - Product 20

- Price - Quantity

. Stock - Customer 2D

- Nome

- contact Info

Relationships Between The Three Core Emtities (Producti, Order, & customer)

Relationships: (continue).

. Order is Linked to a Payment (one to-one relationship)

Order references a specific Delivery zone (one-to-one relationship)

nality			
Core Tunctionalis	- Payment ED - Payment Method - Payment Status	[Delivery Zone] > [ordu]  Delivery Zone ID  Zone Name Shipping Cost Estimated Delivery Time	
20 Déagram Core 5	3 4		
- < [order] < [customer]	3	on Io [Rewiew] > [Product]	
[Roduct]< [ox	Drown Speck	[Cushmed] < [R - cushmed ID Norme contact Info	

