Project Plan General E-Commerce

E-commerce market place is to facilitate the buying and selling of a wide range of products and services over the internet. It serves as a digital platform connecting sellers and buyers, providing a seamless and convinient shopping experience.

Business Key Objects:Product Accessibility:

Product Accessibility.

Offers customer access to diverse products and services from various sellers, regardless of location.

Business Expansions Enables businesses (small and large) to reach a global auclience without the limiteations of physical stores.

Convenient loansactions:-Provides secure and eppicient online payment systems and order management.

Customer Engagement:-Enhances the shopping experience through product reviews, recommendations and personalized marketing.

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- Operational Eppiciency:-Streamlines inventory, logistics and order pullpilment por sellers.
- Reduces operational costs por businesses compared to traditional retail models.

In short, a general E-commerce platform bridges the gap between buyers and sellers, making commerce paster, more accessible, and more scalable.

Here's how you can answer these guiding questions step by step for an E-commerce market place.

1. E-commerce bolutions por Consumers and industries:

Our marketplace cums to solve the problem of limited access to apportable and high quality eco-priendly products. Many consumers want to adopt a sustainable lipestyle but struggle to find trust worthy braineds in one place. Our plat porm connects customers with verified sellers appearing eco-priendly products, making sustainable shopping easy and convenient.

2- Who is your target audience?

Our tenget andience includes environmentally conscious consumers aged 18-45, primarily urban dwellers, who take susteinability and ethical shopping. This audience is tech-savy, prefers Online shopping, and seeks products that align with their elo-priendly values.

3- What things make E-commerce reliable.

Our marketplace stands out through :-

- · Appordibility: we oper competitive price by partnering directly with manyacturers.
- Transparency Verified sellers and product sourcing details build customer trust.
- · <u>Customization</u>: Personalized product recommendations based on customer preferences.
- · Fast Delivery: Ecopulandly packaging with same day delivery options in select cities.

1- Identify the Entities in the Marketplaces

Here are some key entities por a lypical E-commerce marketplace.

- · <u>Customers</u>:- users voho browse and purchase products.
- · Products: Hems listed por sale.
- Drders: Transactions made by customers.
- · Sellers: Vendors who list products on the platform.
- Categories: Product classifications (egg, electronics, clothing).
- Cart: Temporary storage por products before Checkout.
- · Payments :- Records of payment transactions.
- be delivered.
- · Reviews: Customer peedback on products.

2- Depine Relationships Between Entities

- · Customers -> Orders: One customer can place many Orders.
- · Orders -> Products: One Order can contain many products (many-to-many).
- Sellers Products: One seller can list many products.
- One category; categories have many products.
- Orders -> Payments: One sider has one payment.
- Customers Reviews: One customer can leave many reviews.
- Product 7 Reviews: One product can have many reviews.
- Orders Delivery Kones: Orders are shipped Lo delivery zones.

3-Schema Overview Op E-commerce Websile

- Customers (customer_id, name, email, address, phone).
- Products: (product-id, name, description, price, stock, category-id, seller_id).
- Orders: (Order_id, customer_id, total-price, Order_date, status, delivery-zone-id)
- Dellers: (seller_id, name, email, store_name)
- · Categories: (category-id, name)
- Cart: (cart-id, customer-id, product-id, quantity.
- Payments: (payment-id, Order id, amount, payment-metrod, stalis).
- Delivery Zones: (zone-id, region, delivery-pee)
- Reviews: (review_id, customer-id, product_
 id, rating, comment).

4- Schenna Diagram Set

To create the diagram on paper, pollow these light:

· Draw boxes por each entity.

• Inside each box, list attribulés (e og product_ id, name).

· Use lines to connect related entities, adding symbols like:

• 1: One-lô-One

. cone-to-many or many to many

Example :

· Customer(1) → (∞) orders

Product (∞) -> (1) Category

Product (00) -> (00) Orders (through a junction table like Orderilens.

1 :- Identify the Key Entities

Products + Hems available por purchase.

Orders - Records of customer purchases.

· Customers - Users who make purchases.

Delivery Zones - Arecis where deliveries are

Sellers - Vendoss providing products

Payment - Payment information for Orders. Reviews - Feedback from customers on products. 2 : Define Key Fields For Each Entity Products: · Product ID (Pormary Key) Name · Por ce Stock · Category SellerID (Foreign key-Sellers) Order ID (Primary Key) · Customer ID (Foreign Key > Customers) · Product 1D (Foreign key -> Products) Guantily Stalus (Pending, Shipped, Delirered) · Payment ID (Foreign key > Payments) · Delivery ZoneID (Foreignkey > Delivery Zones)

Customers

- · Customer ID (Promary Key)
- · Name
- · Contact Info
- Address

Delivery Rones

- Zone ID (primary key)
 Zone Name
- Corerage Fred
- · Assigned Driver.

Sellers

- · Seller ID (Posmary Key)
- Store Name
- Contact hypo

- Payment ID (Primary Key)
- · Order ID (Foreign Key -> Orders)
- · Amount
- · Payment Method
- · Stalus

Reviews

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3 - Entity Relationship Overvlew

- · Customer -> place many -> Orders
- Orders -> Contain many -> Products (Many-to-Manyvia broken)
- Products -> belong to -> sellers
- Orders -> are delivered in -> Delivery Lones
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- · Customers -> Leave many -> Reviews -> On products.

4 Schema Diagram (Text version)

[Review] [Payment]
[Delivery Zone]

Legend:1-00 One to Many

∞ - ∞ Many to Many.

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