Page # 01 16-1 2005 (Thursday) Hackathon Day # 02 Task Day 2 Planning The Jechnical Foundation Name: Farah Shabik Roll No: 00006855 Day: Sunday Time: 9:00 AM - 12:00 PM Day 2 Activities: Transitioning to Technical Planning 1. Define Technical Requirements · Frantend Reguirements: Is User- Friendly interpace: The website should be simple and clear so users can easily find and browse products ii) Responsive Design: The design should look good and work smoothly on both mobile phones and computers. iii) Essential Pages \* Home Page · Product listing « Product details \* Cart Page n Checkout Page \* Order confirmation Page Fronted Next is tailwind

. Sanity cms as Backend: Sanity cms is a headless content management system that helps you manage structured content Product Schema (for managing products) Fields: . name : string (Product name) · Price: Number (Product plice) · Stock: Number (Quantity in stock) Schemas / Product ; export défault (de mangrés 1001) name: 'product', title : 'product'; type : 'document', fields: [ I name: 'name', type: 'string' ], f name : 'price', type: 'number's, I name: "stock", type: 'number", Order Schema Fields: · Order ID · product · total Amount · Quantity

```
Schemas londeris
 export depault 1
  name : 'order'.
  title : 'Order'.
  type: 'document';
  fields : [
   'name: 'order Number', type: 'string's.
  I name: 'product'. type: 'array', of:
  [ftype: 'reperence', to: [ftype: 'product' ]] ]]
  I name: 'total Amount', type: 'number's,
  iname: 'Quantity', type: 'number'i,
  Customer Schema
 Fields
  . name
  - email
  · address
  · phone
  Schemas/customer.js
  export default f
   name: 'customes',
   title : 'Customa'.
   type: 'document',
   hields = [
     i name: 'name', title: 'Name', type: 'string's,
     iname: 'email', title: 'Email', type: 'string!,
    I name: address, title: 'Address', type: 'text's,
```



Paget 04 [name: 'phone', title: 'Phone', type: string for Third Party APLs. Third-party APIs are essential por extending your marketplace's functionality, such as shipment tracking, payment processing, and other backend Services. Third-API Integrations · Shipment Tracking APIs · Payment Gateway APIs 2. Design System Architecture i, Frontend . Built using Next-js (React framework) . Handles user intractions and displays data petched prom APis · Key pages: - Home Page · Product Listing · Product Details - Cart & checkout - Order Tracking

- uses samily cons to store and manage product; automes, and order data.
  - A Node. is / Express or Next is ADI layer to process business logic and interact with third-party ADIs
  - . API Endpoints: Fetch products, categories, and customer details.
- 111, Third Party APIS
  - · Payment Gateway: (e.g., Stripe/Paypal) for secure payment transactions.
  - . Shipment Tracking: (e.g., EasyPost/Shippo) to manage delivery statuses.
  - · Email/SMS Notifications: (e.g., Twilie/SendGrid)
    for order confirmations and updates.
- iv Database
  - . Managed by Sanity CMs.
  - · stones:

Products

Categories

orders

Customer Information

- v. Delivery Management
  - . Delivery zones and assigned divers handled through backend logic on third party APIs
  - · Integration with Google Map Api

Page + 06 VI. [ Authentication . User authentication through Next Auth-is on Fine base Auth vii . Cloud Hosting . Deploy on platforms like vercels WorkPlow 1. Frontond users browse products, add items to their cart. and proceed to checkout 2. Backend Processes API request from the frontend 3. Payment Gatway. Backend sends order and payment details to the gatoway. 4. Shipment Tracking: Back end interacts with tracking APIs to felch the Order Status. Delivery Zones Backend Logic calculates delivery zones or betches driver details based on customer location. Uses Google Map API Notifications Backend triggers notifications (email/sMs) upon order confirmation or shipment updates

```
Page 1108
    "stock": 50,
     "description": "product delail",
     "image": " un! - to-image"
 iii, Orders: lorders
       " customer": f
                                      Endpoint Name : / orders
         "name": "ABC",
                                     Method: POST
         "email": "abc@gmail.com".
                                     Description: Create a new
        "phone": "123456789"
                                     order insanity CMS
       "products": [
         { "id": 1 "quantity: 2 },
         f "id": 3, "guartity: 1}
       "payment Status": "Paid".
       "total Amount": 300
      Shipment Tracking : /shipment
                                     End point Name: / shipment
IV.
                                     Method: GET
        "shipment 1d": "Ship 123".
                                     Description, Track order
                                     status via a thind.
       "onder [D": "123",
        "status": "procen",
                                     Party API
        "delivery": 2025-1-31
                                     Query Parametus
                                     OrderlD
```

Page \$ 09 V. User Authentication Endpoint Name: /auth/login Method: Posi Description: Log in a user and return an authentication tokun Response Example: "token": "auth-token",
"message": "login"