Date 1. (Project Over View) Project Name: HKM Mast Objective: To facilitate our cust by executing an online storestonestones, checkouts process, tracking Shipments, and handling payments Tagget Audience: My eCommerce blatform is for youngsters including casual ware, Bastyl water and professional! outfits' to enhance customers Leal in Ritcher and dinning to boost customers standard and priorities.

· Technologies Used plent is: React-based framework
for building the frontend. It

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helps with Server-Side Rendering

helps with Server-Side Rendering Static Site Generation 1, and API soutes. en fuses: Component - based VI Fast bendering Dynamic Soutes for product pages and categories. Buckend Sanity CMS. Headless content Contenty product data, user data, and categories. -ea tures: Real-time con ustomijable Schema. - API access to fetch produce

Third - party APIs: Shipment & Tracking. ke skip Engline for si Hacking and mana teatures: -> Real - time Shipment State -> Estimated delivery times. - Shipping label goneration Payment Gateway : Steibe: Payment solutions for brocessing payments -eatites - Credit I debit card processing One- click payments Multi-curbency Suppost

one other Technologies - CSS in is: Styled - components
or Tailwind Col for Styling. - Node- is: Fox handling API soutes on the backend. -MongoDB: For storing user, order and product duta. - cleste : For authentication. 3. (Architecture &e) High - Level Architecture: Foontend (nentis) cast, checkout, order confirmation - client - Side interaction with APIS for broducts

payment podcessing o Product, User, and Order data fetched from San; CMS. Backend: (Sanity CMS) - Provides product informa (title, potce, description - Store order duta (user Order details, Shipping address refe) - custom schemas tox product and order managemento

Third-party Integrati

Flow mork Date Commerce FRON Backer producil page Sent

pare 4. (Features & Functionalities) User Interface: - Product page to display products with price, image description and quantity. - Cast for user to add/ semove view the product cart and proceed to check out. - Checkout to collect Customers details, Shipment and payment. y order confirmation: confirmation page after successful payment. Admin Interface (obtional) - Admin can add edit semove products via sanity. -> Admin can view customer Orders and Heir Status.

Date a Admin can track the Shipme Status. Payment Integration Strike will integrate a secure payment gateway and support Various payment methods Shipment Tracking Ship Engine automatically update tracking information and display shipment status.

5. (Database Schema User Schema: id sistaing email: String Shipping address. Object (address.cit) Orders: Assay [] Product Schema: contegory: string imag: string stockgrantity: Number

Order Schema: Order-id: String Ouser beference)

products: []

total-price: Number bagment Status: String (paid pending Shipped , deliver) 6. API Integration Sanity API - LOET Products: Fetch products from Sanity. - POST Order: Crente a new order in Sanity.

Payment Gateway Stripe - POST / Create-checkout-session - Handle checkout. session. Completed web hook to update the order status. Thisd - Party Shipment API . Shiptingine - DET / Track Shipment Status
- POST / Create a new Shipment
after Order Confirmation.

Date 7. (Technical Skills Require Foontend: C83 Frameworks Backend - sanity - Node-ja APIS ship Engine ApI integration Payment Gateway - Stripe integration Version Control - Git + Hosting / Deploymen

pare 8. (Challenges & Solutions) possible challenges. sessions during high toaffice periods. - Hardling concuttent user JEnsusing Secuse payment brocessing and protecting customer Identer. - Integration this d-basty APIS without issues Solutions: uith Nent is to optimize per formance. - Vser Stripe's webhook to Securely process payments and update the database.

- Integrate third-party, with proper extoo hand! q. (conclusion) HKM Mast will facilitate customers by providing Online store with easy check out and payment Brock To ensure easness of customer ue use Mentijs for frontend to optimize performance. Savity for backend to fetch products to display on product page for customers. Ship Engin for Shipment to monithe shipment Status. These technoligies provides user emperience Ray tracking of Shipmen and secured payment modes. In futible to enhance the performance of website he will work with innovative technologies to facilitate custome more efficiently