SYSTEM ARCHITECTURE & WORK FLOWS

System efficitective Frontend (Next. Js + Tailwind CSS) [API Routes (Next-JS)] (Sarity) (- This Pasty APIS (ShipEngine, State + Fxontend+ The frontend will be developed using Nextyle, which offers advances features such as Server-side Rendering (SSR), Static site generalis CSSG), and client-side Rendering (CSR). These capabilities ensure optimized postomance, enhanced SEO, and sacamless API souting. Next is a cutting-edge frame work in modern Web development aligning with current masket demands too efficiency and sacatability. To ensure type safety and minimize durine eroxors, we will use Typeswift alongside -

- Nextijs. Type script provides sobust

features, such as static typing and better
code refactoring, which are not effectively
implemented in Java script.

for styling, we will utilized Tailwindss, a utility-first CSS Francwork. Tailwindss enables faster, modern, and efficient design enables faster, modern, and efficient design Templementation. Its pre-built utility classes simplify styling and significantly reduce design time while maintain Flexibility for constanting

To manage the application stateand side effects specially for large scale projects, we will the grate Redux Toolkit its completes state management, reducing complexity and improving maintanibility in Realt/Nextice Projects.

- Backendr

sanity, a powerful and flexible headless cms. can'ty enable efficient confert management with the ability to define and interact with data schemas

Seamlessly; GROCE Grouph Relational Object Quebics) will be Utilized to fetch and manage data effectively, sanity is built-in APIS allow fob smoth Integration with front end ensuring a dynamic and xes pohsive uses experience.

we will incorporate this departy APTS

For specific function lities.

shipment Tracking + Integration like the Shipengine, TCS, Leopards Realtime updates.

- Payment Bolessings utilization of store, and efficient payments methods.

Augmented Reality(AR)

To enhance ysex

en gagments and Provide impressive shopping Experience we will Integrated AR madels:

Workflows .) user can freely browse the markets with out signing in of To proceed with a purchase, user must sign in or execte an account, energy their details are stored in data base. Data Migration to Sanity (CMS) 12 of Acustom fost API will fetch the Acoducti data including categories details.) A migration scripts will mapp and store this data including into sant based on the psedefined schema. This ensures scallbility and eliminates manual data enteres Product Listing and Augmented Rolling and dynamic Routing will fetch product data for the front end.

.) Tailwind CSS will in sure a visually appealing products lightings Interface. 2 An AR Model Integration will allow ysex to visuatize products inthierreal-world environmen by dicking a " view in AR" button, enhancing uses decision-making. (1) Add to Cast functuality &) Redyx Toolkit will manage state too adving Stems to the past avoiding issues like profe defilling and enswing state handling for large sale Projects I uses can seriew, adjust auantites, or semone items from cast based on thei Refrances. 5 checkout Process 1= I once the captis finalized, user will be navigoted Details form to provide essential information such as name, emall, shiffing address and payment. details. Payment will be proceed securely through Store, UBL, Gobben

1) Post-payment, user will secree an Invoice containing their order details and a tracking TA 6 Obdet Tracking and Managements+) 45085 can track their orders via tracking To of applies filtes (Nate; seasch, status) on their Da sh board) Obdet statuses will provide real-time updates, ensuring townsparency and cattletication 7) claims and Resolutions+ A claim form will be available for years to be first issues like missing or defective House 1) Missing I tems: Retunds will be proceeds disectly in to the user's account & Defective Items A replacement boxdes will be shipped proprietly. 2 This was kflow fostess trust and encourages repeat purchases.