

Technical Marketplace Hackathon

* **Overview:-**

- To build scable ,user-friendly e-commerce platform features:
- product Management with sanity (CMS)
- Authentication
- Tracking with API (shipengine)
- Pyament Gateway
- Cart functionality

* **System Diagram:-**

- User--> [signIn]--> API-->[save data]
- User--> [frontend]--> browser
- Frontend-->[data fetch]-->sanity
- Frontend-->[cart]-->manage cart API
- Frontend-->[place order]-->checkout
- Shipment--> [label]
- [product data]--> sanity--> store
- Shipengine --> Tracking

* **Workflow :- (Frontend)**

- First user Authentication
- Second Fetch product from sanity & show the display
- Third cart management to use for add/remove,Item dynamically
- Fourth Checkout system to collect user data & payment gateway & show the display for confirmation order
- Fifth tracking system for order make shipment label and provide that label id for tracking order from where to where

* **Workflow :- (Backend)**

- Sanity Use to save data for product data in sanity studio CMS
- API:
 1. Product: for fetch the product data
 2. Shipment: for make shipment label
 3. Track: for tracking order detail
 4. Checkout: payment method

* **API Method :-**

Endpoints	Method	Detail
1. product	Get	Fetch product data from sanity
2. Shipping label	Post	make shipping label
3. Track order	Get	label id to check status/tracking
4. checkout	Post	payment procedure

*** Tools & libraries:-**

- Authentication : firebase & clerk
- Sanity CMS : content management
- shipment: shipengine & shopify
- Payment: paypal
- Cart : redux toolkit & react context API

*** Data Schema:-**

name : 'product',

title : 'product',

type : 'document',

field:[

name: 'name', type: 'string',

name: 'alternate name', type : 'string'

name: 'discount', type: 'number',

name: ' price' , type: ' number',

name: 'description', type: 'string',

```
name: 'quantity' , type : ' number',  
name: ' image',  
type: ' image',  
optiion: {  
hotspot: true,  
}]
```

//same as order or user

***Summary:-**

- system diagram: componenet interaction
- sanity schema: data product/order store
- API: shipment,payment,traking
- Frontend: authentication,homepage,product searching,cart management,order confirmation and payment method