# MARKETPLACE TECHNICAL FOUNDATION COMFORTY ECOMMERCE WEBSITE

# 1. System Architecture Overview

1. Oyste	Take
D <sub>A</sub>	14-02: TRANSITIONING
	TECHNICAL PLANNING
	entend:
· Comfo	enty a well furnished furniture website.  conty provides an easy-to-use and usen-friendly intenface,  ng a seamless browsing experience for its customens.  sity offers a responsive design, ensuring an optimal usen  ence accross mobile devices, tablets and desktops.
• Essentio	Page: Highlighting featured, top-categories products and tions.
=>Poroduc	ct Listing: Browsable catalog with filters and sourting options. ct Details: Detailed view of product with specifications, images
=> Casi	t:- Summary of selected products with options for modifications.
=> Onde	on Confirmation: - Displaying onder details and next steps
The said	the state of the s

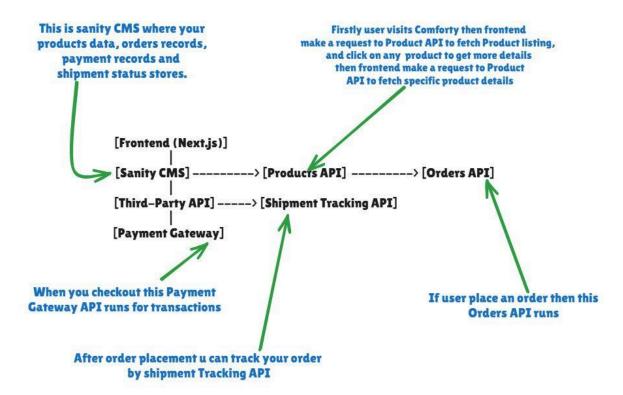
Lue.
Sanity CMC . D.
Sanity CMS as Backend:
the backend foor Comfoorty, poroviding a centralized platfoorm to manage key data and storeamline operations.
2 Manage Cone Data:
- P- 1 1 0 +
product_id, name, description, category, price, stock-quantity? image.
2. Customes Details:-
first_name, last_name, phone_number, address, email-
· Onden Reconds:
onden items, quantity, status, customen id, onden id
· Shipment Records:
onden_id, status
Benefits of Using Sanity CMS:-
· Flexibility:- Sanity's customizable schemas allow us to tailor the
bankend to Comfooty's unique needs.
1 1 1 1 1 as florted on Frontend
· Real-Time Updates: Any changes in products instantly neflected on Frontende
Comfonty.
· Scalability: Sanity supposits growing data requirements as Comforty
expands globally.
Integration Foriendly: Sanify seamlessly integrates with the
I frontend framework.
DECENT"

	Date:
	Schan Davien in S. 1
as	Schema Design in Sanity:
foom	· Psioduct Schema; name
	name -, category, description, price, stock-quantity image -, nating
	Category Schemas
age.	Classification of products in to categories such as sofas, chair stools
•	Customes Schema:  name, phone numbers, email, address.
10-1	Tusing, priene nomator, orien,
	Onden Schema: onden-id, payment status
100	05(de S) - 14, pagn and 51,0105
1	Review Schema:
	natings, comments
-	
1,515	
the	
Frontend.	
1	
ON 19	

Third-Party APIs Integration: To enhance Comforty's functionality and provide a seamless usen expressionce, third party APIs will be integrated in to the backend. These APIs will handle key secrices such as shipment tracking, payment processing. 1 Shipment Tracking API: · Enable seal-time toracking of onders for customens. · Perovide shipping updates. · Customens torack their orders directly thorough the Comforty website. · Improves toransparrency and builds customen torust. 2) Payment Grateway API:

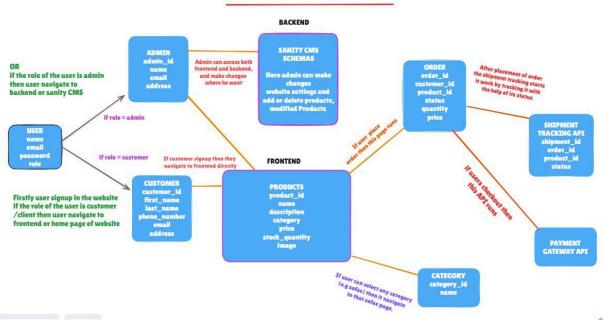
Securely process customen payments. - Ensure a smooth checkout porocess with reliable and secure toransactions. 3) Forontend Supposit: · Display shipment totacking updates in steal-time. · Validate and process payments securely.

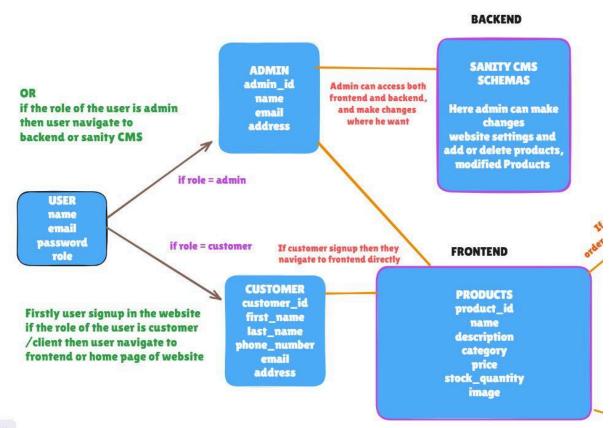
# 2. Design System Architecture

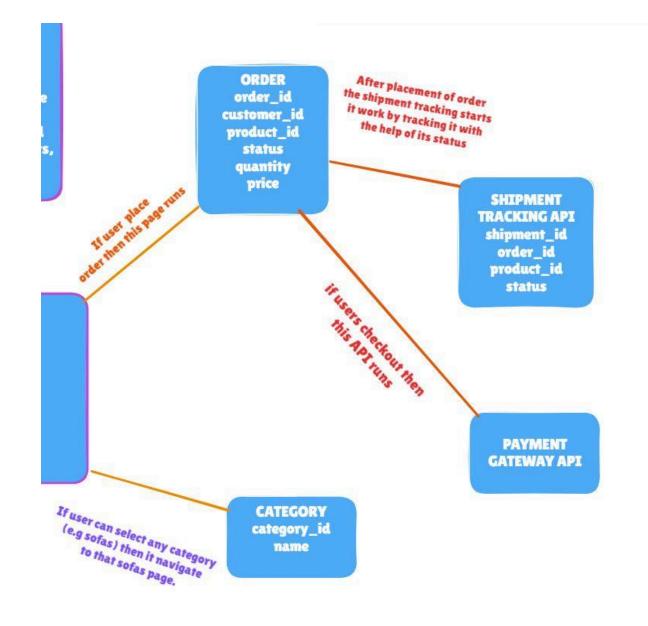


## 3. Key Workflows

#### TRANSITIONING TO TECHNICAL PLANNING







## **Sanity CMS Schema**

#### **Products**

```
export default {
name: 'product',
type: 'document',
    fields: [
{ name: 'name', type: 'string', title: 'Product Name' },
{ name: 'price', type: 'number', title: 'Price' },
{ name: 'stock', type: 'number', title: 'Stock Level' }
    ]
};
```

## 4. Plan API Requirements

Endpoint	Method	Purpose	Payload	Responses
/products	GET	Fetch all product details	N/A	{"id": 66, name: "stool", "price": 89}
/cart	POST	Add item to cart	{"product-Id": 5, "quantity":10}	{"cart-Id": 58, "status": "added"}
/checkout	POST	Process checkout	{"cart-Id": 58, "payment- Info":{}}	{"order-Id": 88, "status": "confirmed"}
/shipment	GET	Get shipment tracking information	{"orderId":88}	{"tracking-Id": 542, "status": "pending"}

# 5. Technical Documentation

### Login and Signup:

- Firstly user signups then navigate to frontend.
- Details are authenticated and stored in sanity CMS

# **Cart Management:**

• Items added to cart and track by cart endpoints.

## **Order Confirmatiion:**

• User checkouts and the order stores in sanity CMS with payment status.