HACKATHON_DAY_2

"PLANNING THE TECHNICAL FOUNDATION"

TECHNICAL REQUIREMENTS:

Following are the core technical requirements:

Frontend:

- Next.js and Tailwind CSS for a better and responsive UI/UX.
- Features include browsing products, managing the cart, and placing orders.

Backend:

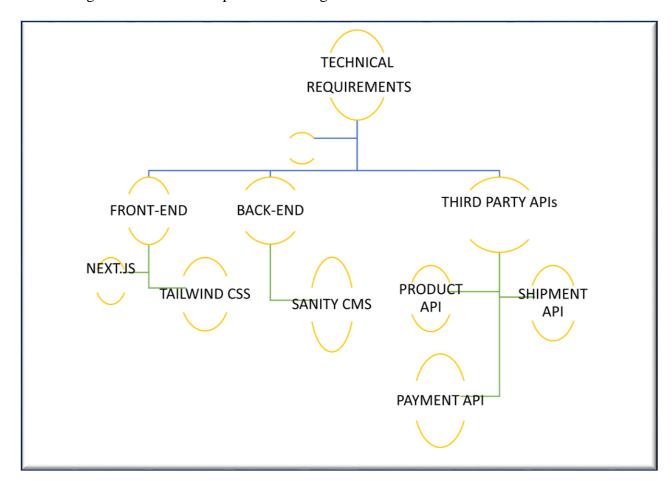
- Headless CMS such as Sanity for content management.
- Manages product data, customer details, and order records.

Third-Party APIs:

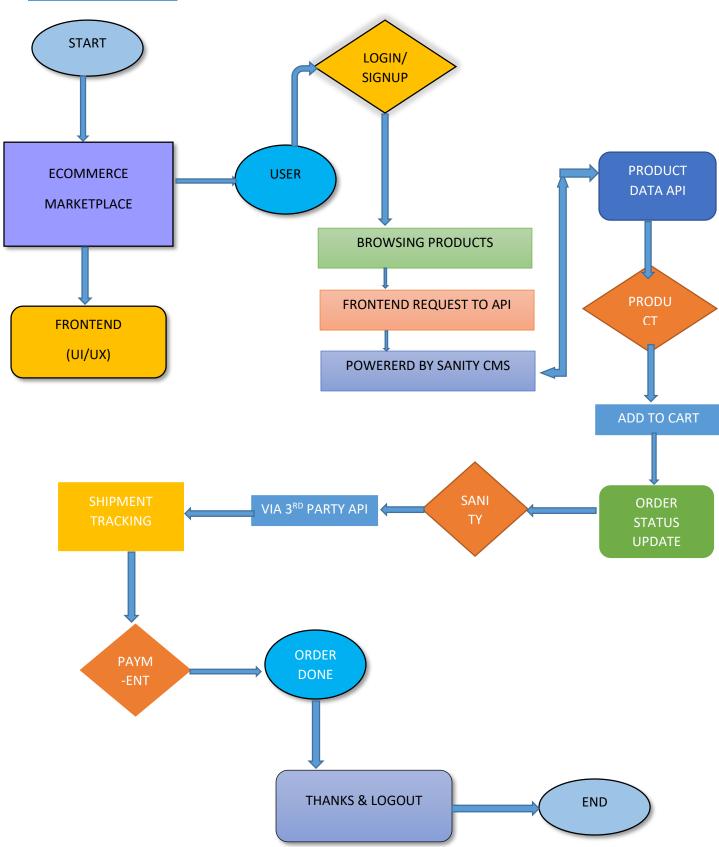
• Integrates services like shipment tracking and payment processing.

Authentication:

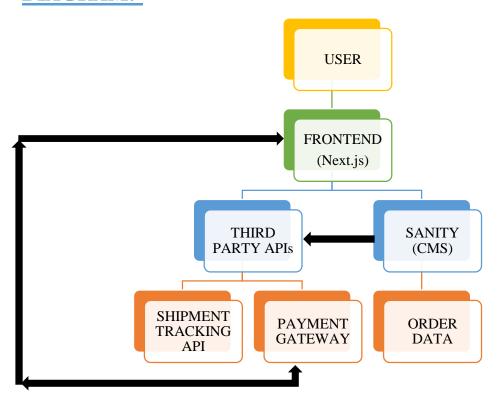
• Login authentication implemented using Clerk for secure user access.



FLOWCHART:



SYSTEM ARCHITECTURE OVERVIEW:DIAGRAM:-



ELABORATION:-

USER: The customer who interacts with the ecommerce website and places an order.

FRONTEND (NEXT.JS): The user interface that displays products and handles interactions.

SANITY (CMS): A headless CMS to manage product data and content.

THIRD PARTY APIs: External services integrated for various functionalities.

SHIPMENT TRACKING: Tracks and updates order delivery status.

PAYMENT GATEWAY: Processes online transactions securely.

ORDER DATA: Stores and manages order details, payment status and shipment updates.

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CONCLUSION:

The project's technical foundation ensures a seamless and secure e-commerce experience. Next.js and Tailwind CSS provide a responsive UI, while Sanity manages content efficiently. Third-party APIs enable payment processing and shipment tracking. Clerk authentication ensures secure user access.

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SLOT: MONDAY (2 TO 5 PM)

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