

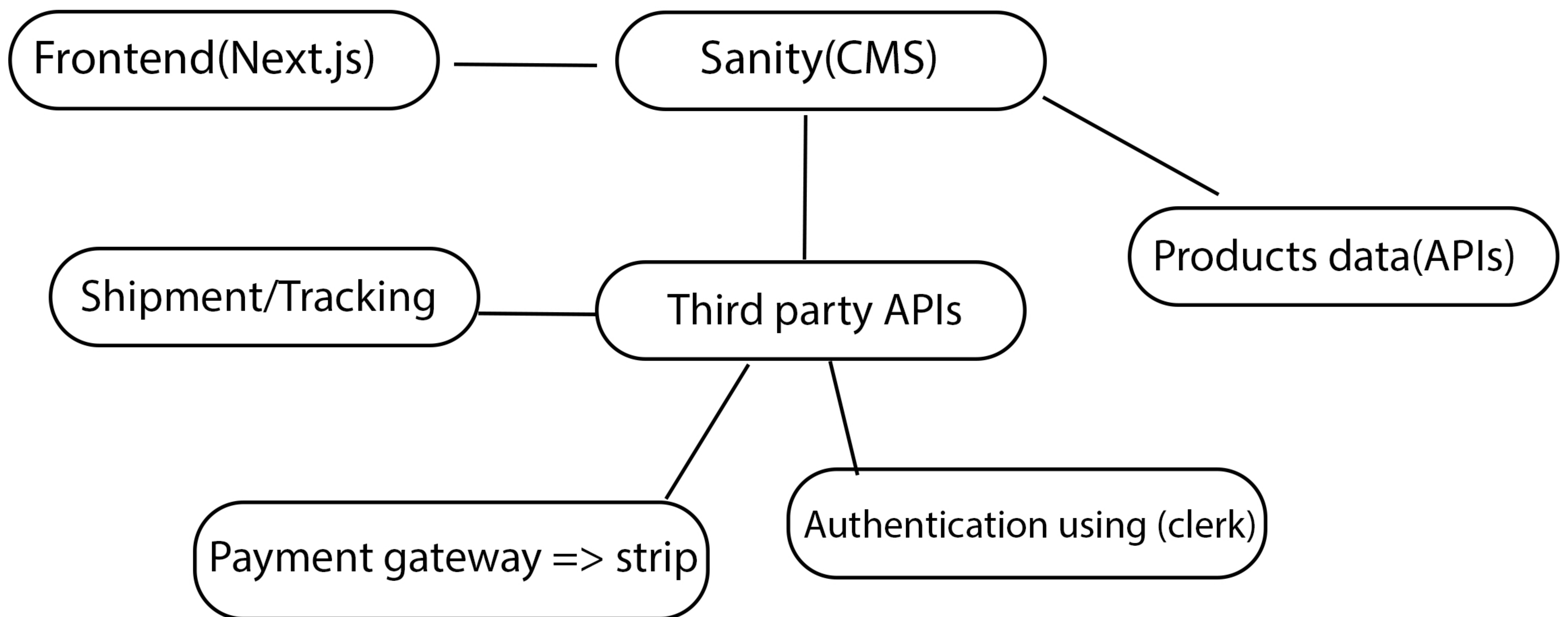
HACKATHONE#3 DAY-2 BY KASHAF AKRAM

PLANNING THE TECHNICAL FOUNDATION

AVION online shopping store

System architecture

High level diagram



Key workflow:

Frontend(Next.js)

- 1.UI Design:** The frontend will have a use interface design that will be responsive for both mobile device and desktop.
- 2.Fetching Products Data:** The frontend will fetch products data from sanity and display it.
- 2.User Authentication:** Before accessing the frontend , user will be required to sign up , and authentication will be handled using clerk.

Backend(Sanity CMS)

- 1.Product data will be manage using sanity.
- 2.Order records will be maintsined in sanity.
3. Customer details will be stored in sanity

Third-Part APIs:

- 1.Integrate a third party API to fetch real time shipment tracking data.
- 2.Display shipment status such as in transit, delivered, or delayed on the frontend.g9
- 3. Store and update tracking information in the sanity for user reference.

Essential pages for frontend

- 1.Home page
- 2.About page
- 3. Dynamic Product page
- 4. Cart page
- 5.Contact page.
- 6.Login/sign up
- 7. checkouts and payments
- 8. Shipment and tracking.

Product Browsing workflow:

- a-** User visits the website.
- b-**User browses product categories.
- c.** Frontend fetches product details from sanity CMS.
- d.**Products are displayed to the user.

Order Placement Workflow:

- a-** User adds products to the cart.
- b-**User proceeds to checkout.
- c.** Order details are saved in sanity CMS.
- d.**Payment gateway confirms the transaction.

API Endpoints:

End point:	Method	Description
/Products	GET	Fetches all products data
/orders	POST	Create a new order
/shipment	GET	Track shipment status