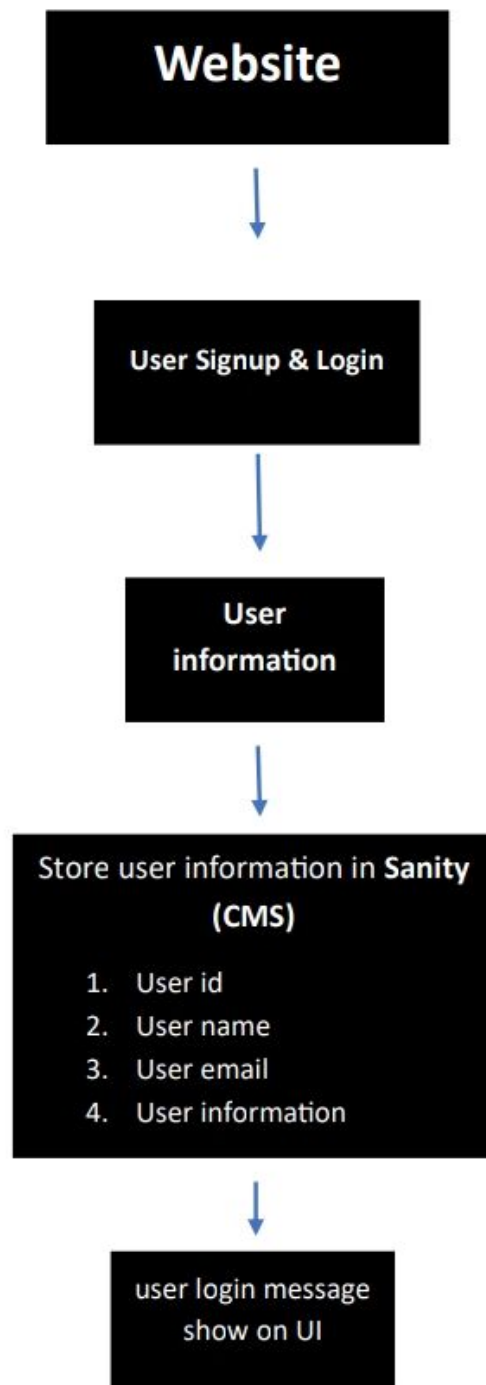
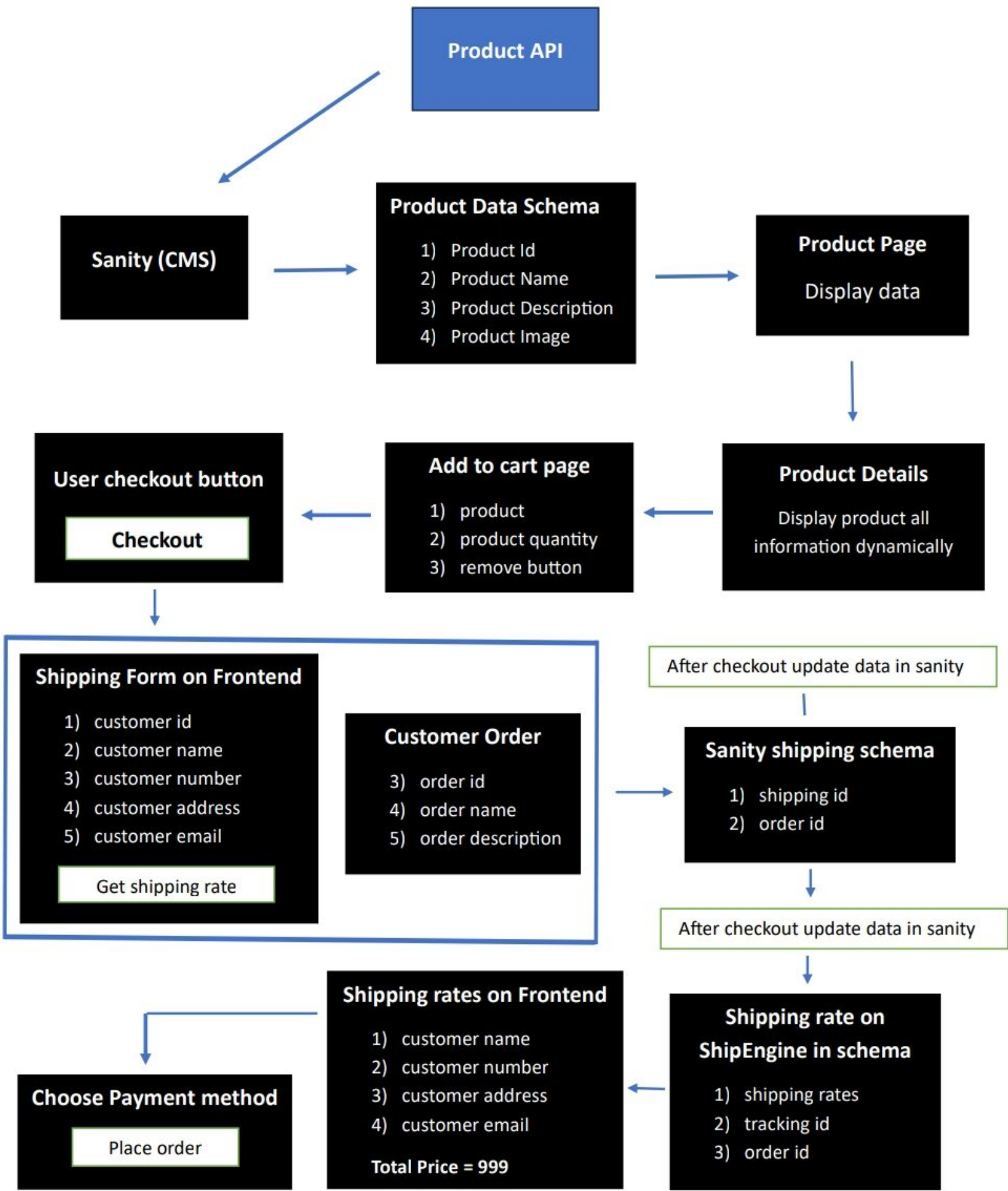

Marketplace Technical Foundation

General E-Commerce

SYSTEM ARCHITECTURE





WORKFLOW DESCRIPTION

- **User Signup & Login Process**

The user flow starts with the user coming to the website either to sign up or log in. In this process, all the information related to the user, including User ID, Name, Email, and other details, is saved in the Sanity CMS in a secure manner. Once the user is logged in successfully, a message is displayed on the UI to give feedback and ensure a seamless user experience.

- **Product Management**

It includes managing product data within the Sanity CMS using a defined schema of attributes such as Product ID, Name, Description, and Image. This dynamically fetched data can be displayed on the product page so that the users can view the detailed information of the products available. Interact with products, adding them to their cart or changing quantities as required or even removing items.

- **Checkout Process**

Once the user selects the cart, they are allowed to checkout by clicking on the "Checkout" button. They then provide a shipping form on the checkout page that necessitates the collection of vital information such as the Customer ID, Name, Contact Number, and Email. The details are thus required for getting the shipping rate and also order fulfillment.

- **Shipping and Order Management**

Once the shipping form is submitted, the system retrieves shipping rates and displays them to the user in the frontend for review. Meanwhile, order information is saved in the CMS under the "Customer Order" schema. Under this schema, all pertinent details-from the customer's information down to the description of the order-are recorded.

- **Payment and Post-Checkout Messages**

The final stage is the completion of the transaction, where a user selects their payment method and then confirms the order. When a user checks out, the shipping information, including the shipping rate, tracking ID, and order ID, are sent to the Sanity CMS under "Shipping Schema." This ensures all data is consistent and ready for further processing; thus, the transition from order placement to fulfillment is very smooth.