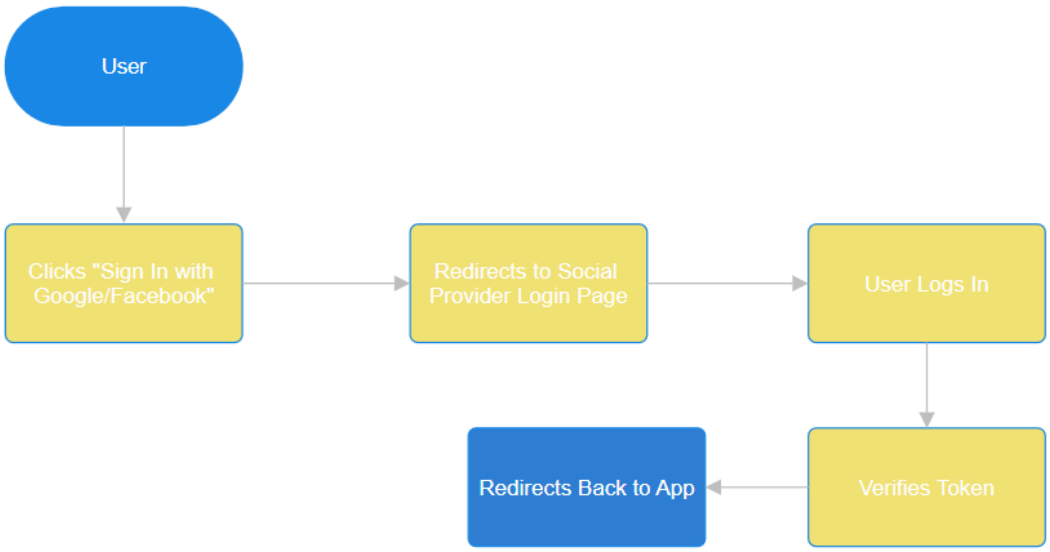
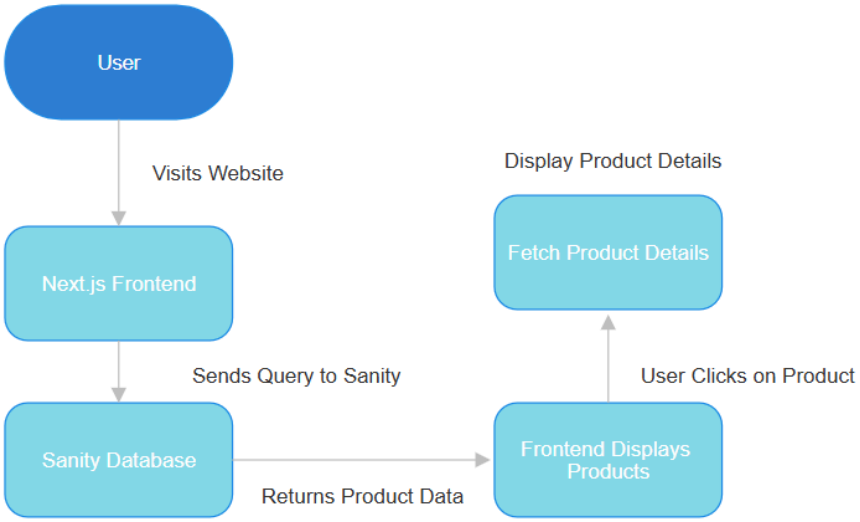
System Architecture

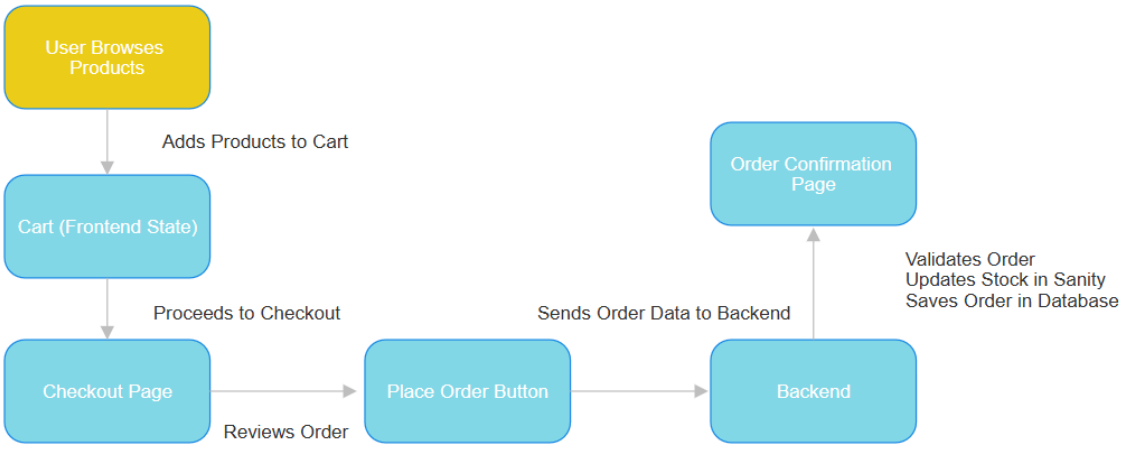
User Registration



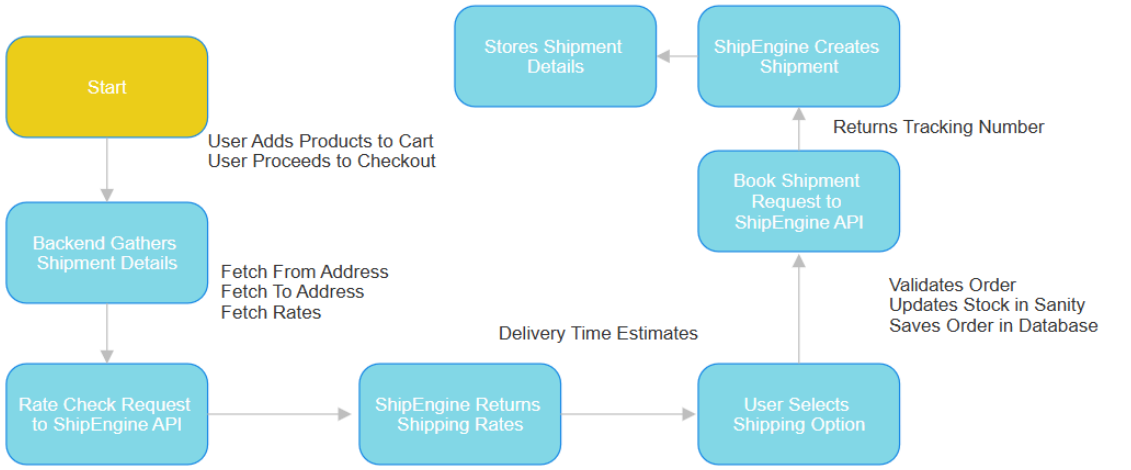
Product Browsing



Checkout


User Browses Products
Adds Products to Cart
Cart (Frontend State)
Proceeds to Checkout
Checkout Page
Reviews Order
Place Order Button
Sends Order Data to Backend
Backend
Validates Order
Updates Stock in Sanity
Saves Order in Database
Order Confirmation Page

Shipment


Start
User Adds Products to Cart
User Proceeds to Checkout
Backend Gathers Shipment Details
Fetch From Address
Fetch To Address
Fetch Rates
Rate Check Request to ShipEngine API
ShipEngine Returns Shipping Rates
Delivery Time Estimates
User Selects Shipping Option
Validates Order
Updates Stock in Sanity
Saves Order in Database
Book Shipment Request to ShipEngine API
Returns Tracking Number
ShipEngine Creates Shipment
Stores Shipment Details