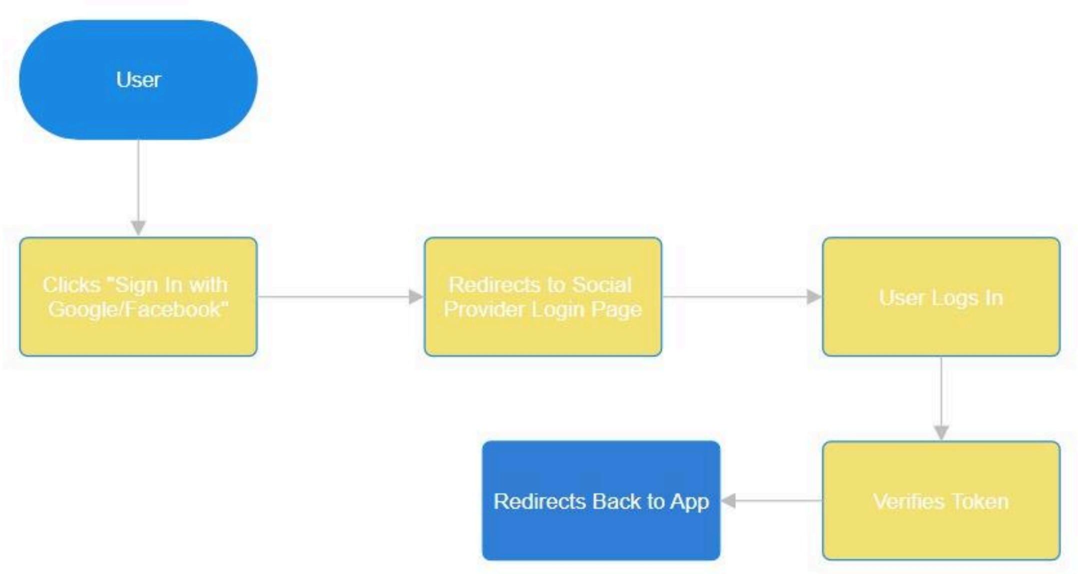
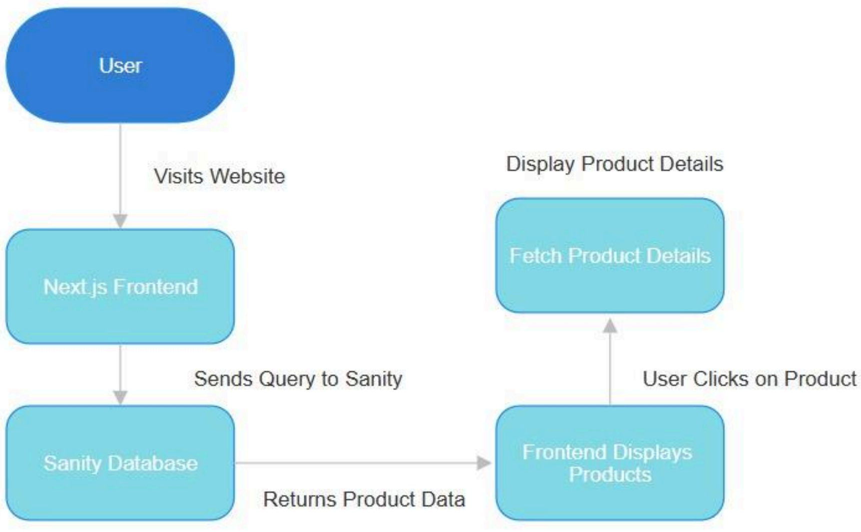
System Architecture Overview

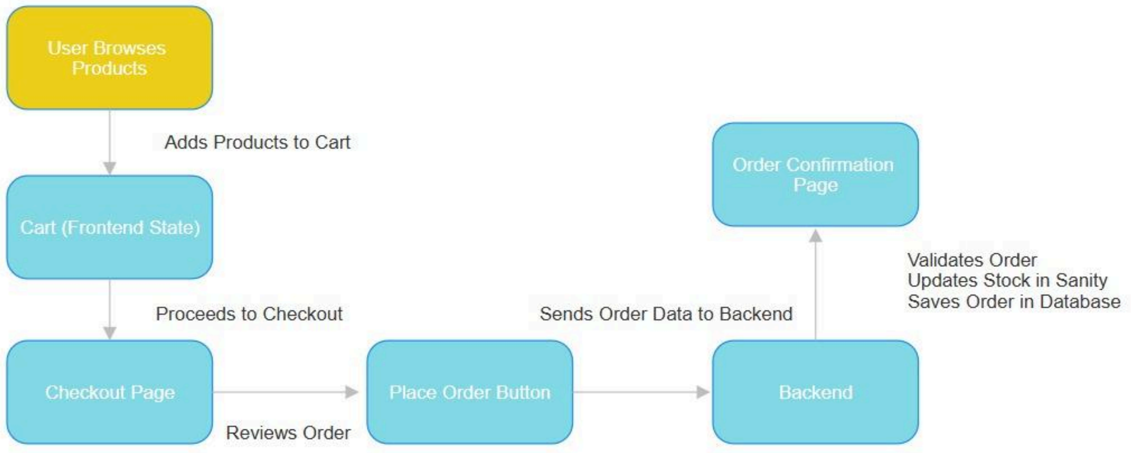
User Login


User
Clicks "Sign In with Google/Facebook"
Redirects to Social Provider Login Page
User Logs In
Verifies Token
Redirects Back to App

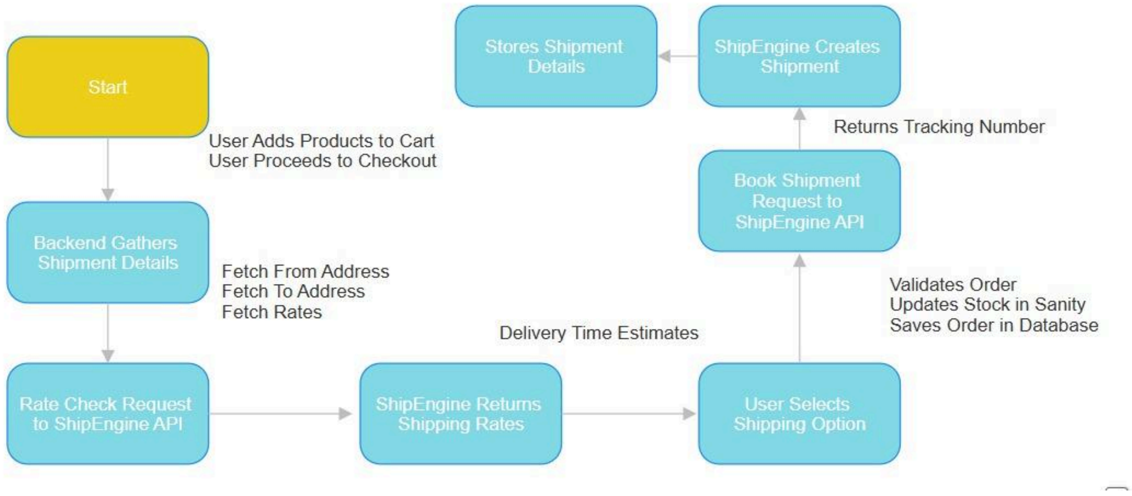
Product Browsing



Place an Order



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

Key Workflows

User Registration:

- **User signs up** -> Data is validated -> Data is stored in the database -> Confirmation email is sent to the user.

User Login:

- **User enters credentials** -> Credentials are validated -> Token is generated -> User is authenticated -> Token is returned to the user.

Browsing Menu:

- **User views the menu** -> Request is sent to the server -> Server retrieves the daily menu -> Menu data is sent to the user.

Placing an Order:

- **User selects items** -> User reviews cart -> User confirms order -> Order is created in the database -> Order confirmation is sent to the user.

Order Items:

- **Order is processed** -> Items are linked to the order -> Order details are updated -> Inventory is adjusted -> Order details are sent to the user.

Payment Processing:

- **User initiates payment** -> Payment details are validated -> Payment is processed through a payment gateway -> Payment status is updated -> Receipt is sent to the user.

Delivery Scheduling:

- **Order is ready for delivery** -> Delivery is scheduled -> Delivery details are saved in the database -> User receives delivery updates.

Delivery Tracking:

- **Delivery in progress** -> Delivery status is updated periodically -> User receives real-time delivery status -> Delivery is completed -> User is notified of delivery completion.

Sanity Schema Design

```
import { defineField, defineType } from 'sanity'
import { CubeIcon } from '@sanity/icons'

export const productType = defineType({
    name: 'product',
    title: 'Product',
    type: 'document',
    icon: CubeIcon,
    preview: {
        select: {
            title: "title",
            media: "image",
        },
        prepare({ title, media }) {
            const titleFormatted = title || 'Untitled product'

            return {
                title: titleFormatted,
                media: media || CubeIcon,
            }
        },
    },
    fields: [
        defineField({
            name: 'title',
            type: 'string',
            description: 'Give the productEnter a clear, descriptive name
for your product (e.g., "Wireless Bluetooth Headphones").',
            validation: (rule) => rule.required().error('Title is
required')
        }),
        defineField({
            name: 'slug',
            type: 'slug',
            options: { source: 'title' },
            validation: (rule) => rule.required().error('Required to
generate a page on the website'),
            hidden: ({ document }) => !document?.title,
        }),

        defineField({
            name: 'price',
            type: 'number',
            description: 'Set the regular price for your product.',
            validation: (rule) => rule.required().error('Price is
required')
        }),
        defineField({
            name: 'salePrice',
            type: 'number',
            description: 'Optional: Enter a discounted price if the product
is on sale.',

        }),
        defineField({
            name: 'stock',
            type: 'number',
            description: 'Enter a no of stock available.',

        }),
        defineField({
            name: 'reviewsCount',
            type: 'number',
        }),
        defineField({
            name: 'image',
            type: 'image',
            description: 'Upload a high-quality image that represents your
product clearly.'
        }),
        defineField({
            name: 'description',
            type: 'array',
            of: [{ type: 'block' }],
            description: 'Provide a brief and engaging description of your
product, highlighting its key features and benefits.'
        }),
    ],
})
```