

Marketplace Technical Foundation

Hackathon Day 2

Template 9: Q commerce Elite food Restaurant

1. Define Technical Requirements The first step is to translate your business goals into clear technical requirements.

Frontend Requirement:

We will design easy to access product website for better experience with excellent UI (userinterface)

We will design our website in Next.js using current designing technique like tailwindcss shadcn.ui and make a fully responsive website for all type of screens. For better experience

Our essential pages are Home ,Menu, Shop, shopping detail, cart , checkout

2. Sanity CMS as Backend:

The essential schemas in our project include:

- **Menu:** To manage the list of food items, categories, and their details.
- **Shop:** To handle shop-specific configurations or settings (e.g., operating hours, featured items).
- **Shopping Detail:** To record user-selected products during their shopping session.
- **Cart:** To manage the products added by users for purchase, including quantities and total cost.
- **Checkout:** To collect customer information, manage payment details, and process orders efficiently.

Why Sanity is Ideal for Our Project

- **Dynamic Product Management:**
Instead of creating multiple static pages for each product, we leverage Sanity's schema design capabilities to dynamically manage and display multiple products. By using arrays in schemas, we can list and manage several products with minimal code, making the development process faster and more efficient.
- **User Data Handling:**
Our schemas will also be designed to capture and store user data, such as shopping preferences,

orders, and cart details, securely within Sanity. This allows for seamless user interaction while maintaining robust data organization.

- **Scalable and Flexible Solution:**

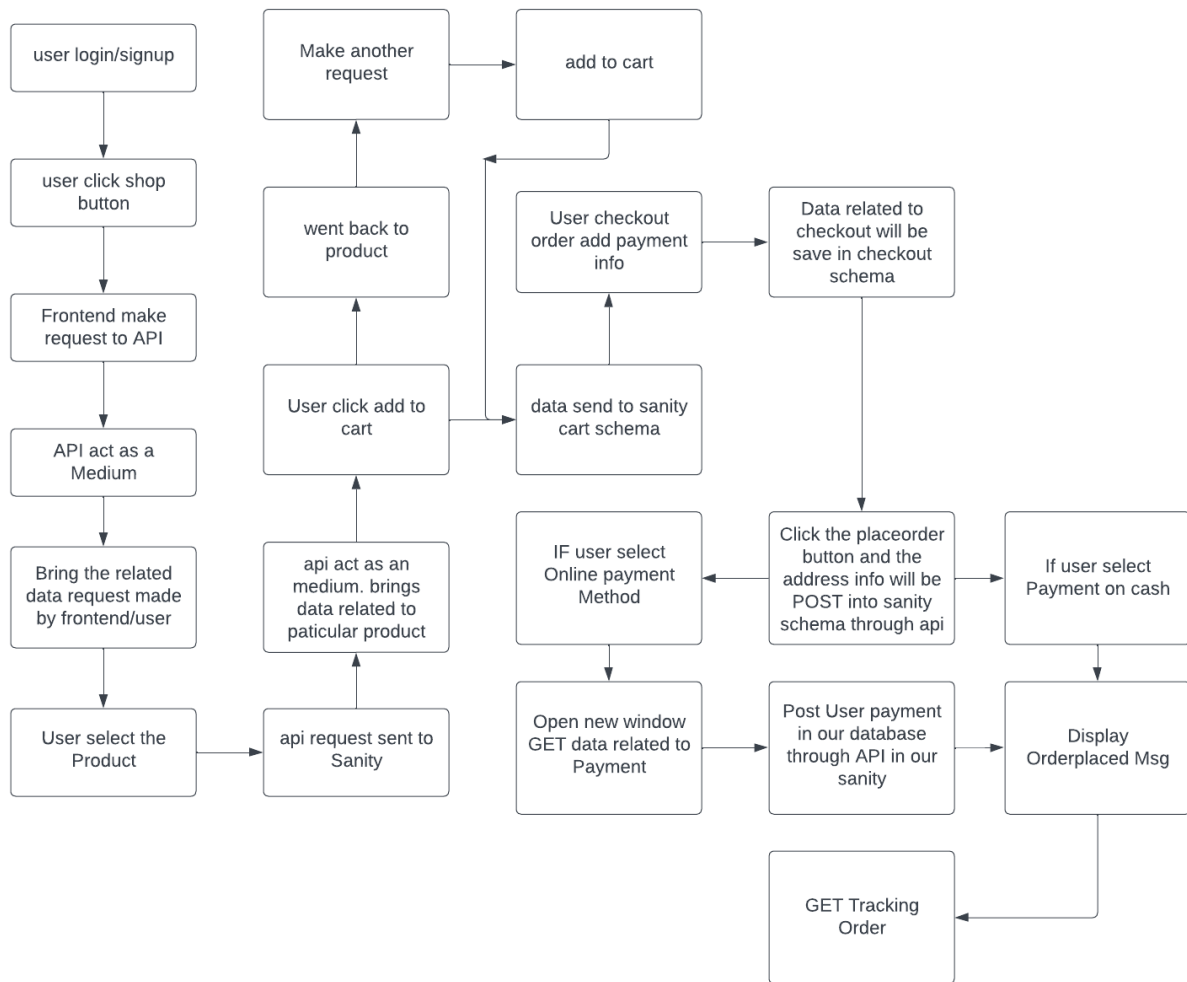
Sanity's real-time updates and query capabilities ensure that both the website and user data remain synchronized, providing an optimal experience for both administrators and end users.

3. Third party API

We will use third party API for payments method like Stripe etc

4. Design System Architecture

Design System Architecture Create a high-level diagram showing how your system components interact. Use tools like pen and paper or software like Lucidchart, Figma or Excalidraw. For example, a more detailed architecture might include workflows such as:



PLAN API REQUIREMENT

Q-commerce:
template 9
elite Food Restaurant

Following is the API
endpoints based on our
data and schema

Endpoint Name: SignUp
Method: POST
Description: Adding user info to schema/database
Response Example: {
Name: "faizan masood",
age: "24",
location: "north karachi",
username: "faizanmasood009@gmail.com",
password: "faizan@124"}

Endpoint Name: Shop
Method: GET
Description: showcasing data(List of food items) from the schema on to the client side
Response Example: {
ProductImageURL:
Products Name: "pizza",
Product price: "12\$"

Endpoint Name: selected item detail
Method: GET
Description: showcasing data(selected item from the shop window) from the schema on to the client side
Response Example: {
Stockdetail: In stock/ Out of stock(true or false)
Product Name: "pizza",
Product Detail: "lorem ipsum....."
Product price: "12\$"
Product Rating: "stars"
Reviews Count: "no of reviews"
button: "add to cart"
category: "pizza"
tag: "ourshop"
icons: "fb, insta, twit, pin"

Endpoint Name: : Add to cart
Method: Post
Description: Adding Food items into the cart
Response Example: {
Stockdetail: In stock/ Out of stock(true or false)
Product Name: "pizza",
Product price: "12\$"
Quantity: "1"
Total: "12"
Remove: "X/O"
Coupon Code
cart subtotal: "50\$"
shipping charge: "00"
Total amount: "50\$"

Endpoint Name: Tracking Order
Method: GET
Description: Showing order status
Response Example: {
Current status of order: "Order Placed", "Preparing", "Out for Delivery", "Delivered"
datetime: "1/1/0000"

Endpoint Name: Order Display message
Method: GET
Description: Sending order place message to Pro
Response Example: {
Message: "your order is placed"

Endpoint Name: Shipping address
Method: POST
Description: Adding Address Information
Response Example: {
FirstName: "faizan masood",
Email: "faizanmasood009@gmail.com",
phone: "12312321414",
company: "NIL",
Country: "pakistan",
chooscity: "karachi",
zipcode: "75850",
address1: "north karachi",
address2: "north karachi"

Endpoint Name: Shipping address
Method: GET
Description: Showing shipping window
Response Example: {
FirstName:
LastName: "pizza",
Email: "12\$"
phone: "1"
company: "12"
Country: "X/O"
chooscity:
zipcode:
address1:
address2:

SNAITY SCHEMAS:

USER:

```
export default {  
  name: "user",  
  title: "User",  
  type: "document",  
  fields: [  
    {  
      name: "name",  
      title: "Name",  
      type: "string",  
    },  
    {  
      name: "email",  
      title: "Email",  
      type: "string",  
      unique: true,  
    },  
  ],  
}
```

```
{
  name: "password",
  title: "Password",
  type: "string",
},
],
};
```

```
PRODUCT: export default {
  name: 'product',
  title: 'Product',
  type: 'document',
  fields: [
    {
      name: 'name',
      title: 'Name',
      type: 'string',
      validation: (Rule: any) => Rule.required()
    },
    {
      name: 'slug',
      title: 'Slug',
      type: 'slug',
      options: {
        source: 'name',
        maxLength: 90,
      },
      validation: (Rule: any) => Rule.required()
    },
    {
      name: 'descriptionOne',
      title: 'Description One',
      type: 'text',
      validation: (Rule: any) => Rule.required(),
    },
    {
      name: 'image',
      title: 'Image',
      type: 'image',
      options: {
```

```

        hotspot: true,
    },
    validation: (Rule: any) => Rule.required()
  },
  {
    name: 'thumbnailImages',
    title: 'Thumbnail Images',
    type: 'array',
    of: [{ type: 'image' }],
  },
  {
    name: 'currency',
    title: 'Currency',
    type: 'string',
    options: {
      list: [
        { title: 'USD', value: 'USD' },
        { title: 'EUR', value: 'EUR' },
        { title: 'GBP', value: 'GBP' },
        // Add more currencies as needed
      ],
      layout: 'radio', // Or 'dropdown' depending on your preference
    },
    initialValue: 'USD', // Default currency
  },
  {
    name: 'price',
    title: 'Price',
    type: 'number',
    validation: (Rule: any) => Rule.required().positive()
  },
  {
    name: "category",
    title: "Category",
    type: "reference",
    to: [{ type: "category" }],
  },
  {
    name: 'createdAt',
    title: 'Created At',
    type: 'datetime',
    options: {
      dateFormat: 'YYYY-MM-DD',
      timeFormat: 'HH:mm',
    },
  },

```

```

    },
    readOnly: true,
  },
  {
    name: 'updatedAt',
    title: 'Updated At',
    type: 'datetime',
    options: {
      dateFormat: 'YYYY-MM-DD',
      timeFormat: 'HH:mm',
    },
    readOnly: true,
  },
  {
    name: 'rating',
    title: 'Star Rating',
    type: 'number',
    description: 'The star rating for the product (1-5)',
    validation: (Rule: any) => Rule.min(1).max(5).integer(), // Ensures the
rating is between 1 and 5
    options: {
      list: [1, 2, 3, 4, 5], // Optional: Display as a dropdown in the Studio
    },
  },
  {
    name: 'description',
    title: 'Description',
    type: 'text',
    validation: (Rule: any) => Rule.required(),
  },
],
{
  name: 'reviews',
  title: 'Reviews',
  type: 'array',
  of: [
    {
      type: 'object',
      fields: [
        { name: 'reviewer', title: 'Reviewer Name', type: 'string' },
        { name: 'rating', title: 'Rating', type: 'number' },
        { name: 'comment', title: 'Comment', type: 'text' },
      ],
      options: {
        add: {
          _key: {

```

```

        type: 'string',
        title: 'Key',
        description: 'A unique key for each review',}
    },
},
],
},
{
  name: 'keybenefits',
  title: 'Key Benefits',
  type: 'string',
  validation: (Rule: any) => Rule.required().max(50).warning("Keep the heading
concise.")
},
{
  name: 'benefitsList',
  title: 'Key Benefit Points',
  type: 'array',
  of: [{ type: 'string' }],
  validation: (Rule: any) =>
    Rule.required().min(1).max(5).error('You must provide 1 to 5 benefit
points.'),
},
]
};

```

```

CART: export default {
  name: 'cart',
  title: 'Cart',
  type: 'document',
  fields: [
    {
      name: 'userId',
      title: 'User ID',
      type: 'string',
      description: 'Unique identifier for a user session',
    },
    {
      name: 'Cartitems',
      title: 'Cart Items',
      type: 'array',

```



```
of: [
  {
    type: 'object',
    fields: [
      {
        name: 'productId',
        title: 'Product ID',
        type: 'string',
      },
      {
        name: 'name',
        title: 'Product Name',
        type: 'string',
      },
      {
        name: 'image',
        title: 'Product Image',
        type: 'string',
        options: {
          hotspot: true,
        },
      },
      {
        name: 'price',
        title: 'Price',
        type: 'number',
      },
      {
        name: 'rating',
        title: 'Rating',
        type: 'number',
      },
      {
        name: 'quantity',
        title: 'Quantity',
        type: 'number',
      },
      {
        name: 'total',
        title: 'Total Price',
        type: 'number',
      },
    ],
  },
],
```

```

    },
    {
      name: 'createdAt',
      title: 'Created At',
      type: 'datetime',
      initialValue: () => new Date().toISOString(),
      readOnly: true,
    },
    {
      name: 'updatedAt',
      title: 'Updated At',
      type: 'datetime',
      initialValue: () => new Date().toISOString(),
      readOnly: true,
    },
  ],
};

```

```

Chef: export default {
  name: 'chef',
  title: 'Chef',
  type: 'document',
  fields: [
    {
      name: 'image',
      title: 'Chef Image',
      type: 'image',
      options: {
        hotspot: true,
      },
    },
    {
      name: 'chefName',
      title: 'Chef Name',
      type: 'string',
    },
    {
      name: 'designation',
      title: 'Designation',
      type: 'string',
    },
  ],
};

```

