

Schemas:-

schema flow for an e-commerce website, integrating **Sanity CMS** for managing content and product data are as below.

1-Product Schema (Sanity)

This schema holds information related to individual products.

```
export default {  
  name: 'product',  
  title: 'Product',  
  type: 'document',  
  fields: [  
    {  
      name: 'name',  
      title: 'Product Name',  
      type: 'string',  
    },  
    {  
      name: 'slug',  
      title: 'Slug',  
      type: 'slug',  
      options: {  
        source: 'name',  
        maxLength: 96,  
      },  
    },  
  ],  
}
```

```
{
  name: 'price',
  title: 'Price',
  type: 'number',
},
{
  name: 'description',
  title: 'Description',
  type: 'text',
},
{
  name: 'category',
  title: 'Category',
  type: 'reference',
  to: [{ type: 'category' }],
},
{
  name: 'image',
  title: 'Product Image',
  type: 'image',
  options: {
    hotspot: true,
  },
},
{
  name: 'stockQuantity',
```

```
    title: 'Stock Quantity',
    type: 'number',
  },
  {
    name: 'isAvailable',
    title: 'Is Available',
    type: 'boolean',
    default: true,
  },
],
};
```

2. Category Schema (Sanity)

Helps in filtering products based on categories.

```
export default {
  name: 'category',
  title: 'Category',
  type: 'document',
  fields: [
    {
      name: 'name',
      title: 'Category Name',
      type: 'string',
```

```
    },  
    {  
      name: 'description',  
      title: 'Description',  
      type: 'text',  
    },  
  ],  
};
```

3. Review Schema (Sanity)

Allow customers to leave reviews for products.

```
export default {  
  name: 'productReview',  
  title: 'Product Review',  
  type: 'document',  
  fields: [  
    {  
      name: 'product',  
      title: 'Product',  
      type: 'reference',  
      to: [{ type: 'product' }],  
    },  
    {  
      name: 'user',
```

```

    title: 'User',
    type: 'string',
  },
  {
    name: 'rating',
    title: 'Rating',
    type: 'number',
    validation: Rule => Rule.min(1).max(5),
  },
  {
    name: 'reviewText',
    title: 'Review Text',
    type: 'text',
  },
  {
    name: 'createdAt',
    title: 'Created At',
    type: 'datetime',
  },
],
};

```

4. Content Pages Schema (Sanity)

Used for managing static pages like "Terms and Conditions".

```

export default {

```

```
  name: 'contentPage',
  title: 'Content Page',
  type: 'document',
  fields: [
    {
      name: 'title',
      title: 'Title',
      type: 'string',
    },
    {
      name: 'slug',
      title: 'Slug',
      type: 'slug',
      options: {
        source: 'title',
        maxLength: 96,
      },
    },
    {
      name: 'body',
      title: 'Body Content',
      type: 'blockContent',
    },
  ],
};
```

5. User Schema (Sanity)

This schema can hold basic user data like name, email, and user role (e.g., admin, customer).

```
export default {  
  name: 'user',  
  title: 'User',  
  type: 'document',  
  fields: [  
    {  
      name: 'name',  
      title: 'Name',  
      type: 'string',  
    },  
    {  
      name: 'email',  
      title: 'Email',  
      type: 'string',  
    },  
    {  
      name: 'role',  
      title: 'Role',  
      type: 'string',  
      options: {  
        list: [  

```

```
_____ { title: 'Admin', value: 'admin' },  
_____ { title: 'Customer', value: 'customer' },  
_____,  
_____,  
_____,  
_____,  
_____,  
_____};
```

6. Order Schema (Sanity)

create an **order schema** for managing orders through Sanity, tracking items purchased, total, etc.

```
export default {  
  name: 'order',  
  title: 'Order',  
  type: 'document',  
  fields: [  
    {  
      name: 'user',  
      title: 'User',  
      type: 'reference',  
      to: [{ type: 'user' }],  
    },  
    {  
      name: 'products',  
      title: 'Products',  
      type: 'array',
```



```

    of: [{ type: 'reference', to: [{ type: 'product' }] }],
  },
  {
    name: 'totalAmount',
    title: 'Total Amount',
    type: 'number',
  },
  {
    name: 'status',
    title: 'Order Status',
    type: 'string',
    options: {
      list: ['Pending', 'Processing', 'Shipped', 'Delivered', 'Cancelled'],
    },
  },
  {
    name: 'createdAt',
    title: 'Created At',
    type: 'datetime',
  },
],
};

```

7. Cart Schema (Sanity)

This schema helps manage the cart's state and the products users intend to purchase.

```
export default {  
  name: 'cart',  
  title: 'Cart',  
  type: 'document',  
  fields: [  
    {  
      name: 'user',  
      title: 'User',  
      type: 'reference',  
      to: [{ type: 'user' }],  
    },  
    {  
      name: 'products',  
      title: 'Products',  
      type: 'array',  
      of: [{ type: 'reference', to: [{ type: 'product' }] }],  
    },  
    {  
      name: 'totalAmount',  
      title: 'Total Amount',  
      type: 'number',  
    },  
  ],  
}
```

Final Schema Flow Overview

1. **Product Schema** stores all product details and links to the **Category Schema**.
2. **Category Schema** stores information about different product categories.
3. **Review Schema** lets users review products and links back to the **Product Schema**.
4. **Content Pages Schema** handles static content like "Terms and Conditions".
5. **User Schema** stores user profile details.
6. **Order Schema** helps manage order data (though transactional data will live in MongoDB).
7. **Cart Schema** stores user cart data until checkout.

This schema structure ensures that your **Sanity CMS** can efficiently manage all content-related data while also maintaining flexibility to support product catalog, customer interaction, and static pages.