

Day 2 Assignment: Planning the Technical Foundation for the Sit & Style Studio;

Web-System Design Overview:

The system is built to be smooth and easy to scale. The frontend works well with the backend to give users a simple and enjoyable shopping experience. Here's a quick overview of how it works:

Frontend:

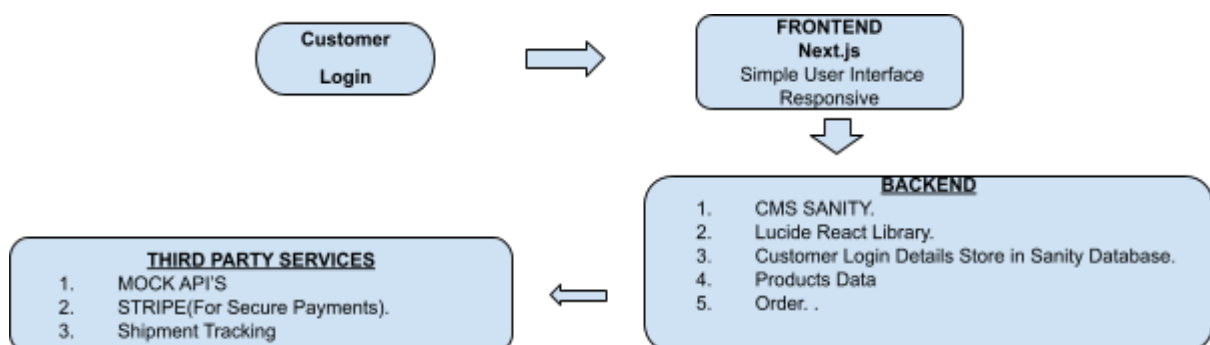
- Built with **Next.js** for a fast and efficient frontend.
- Styled using **Tailwind CSS** and enhanced with UI component libraries like **ShadCN UI** and **Lucide React**.
- **Context API** is used for state management.
- Backend data is fetched through **API calls**.

Backend:

- Data handled via Sanity.io
- Third-party Services e.g. Product Data APIS, Shipment Tracking, Payment
- The frontend connects to

Sanity.io through ----->**HTTP requests** (GET, POST, PUT, DELETE).

Workflow:



Sanity Schema Details Example

1. GET **/api/products:**

```
[ {  
  
  "id": 1,  
  
  "name": "Wooden Chair",  
  
  "price": 49.99,  
  
  "stock": 15,  
  
  "category": "Furniture"  
  
}, ]
```

2. POST **/api/orders:**

Schema (Request):

```
{  
  "customerId": 123,  
  "items": [  
    {  
      "productId": 1,  
      "quantity": 2  
    },  
    {  
      "productId": 2,  
      "quantity": 1  
    }  
  ],  
  "totalPrice": 299.97  
}
```

Schema (Response):

```
{  
  "orderId": 456,  
  "status": "success",  
  "message": "Order created successfully."  
}
```

3. PUT **/api/users:**

Schema (Request)

```
{ "name": "John Doe",  
  "email": "john.doe@example.com",  
  "phone": "+1234567890"}
```

Schema (Response):

```
{ "userId": 123,  
  "status": "success",  
  "message": "User details updated."}
```

4. DELETE /api/orders:

Schema (Response):

```
{ "orderId": 456,  
  "status": "success",  
  "message": "Order deleted successfully."}
```

Day 2 Summary:

"I've outlined how the system will work, how components will interact, and how third-party APIs will be integrated. The next step is to bring this design to life by building a fully functional marketplace."

