

## 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**.
- Outlined key pages: Home, Product Listings, Checkout, and Order Confirmation.
- Designed a responsive and intuitive layout to ensure effortless navigation.

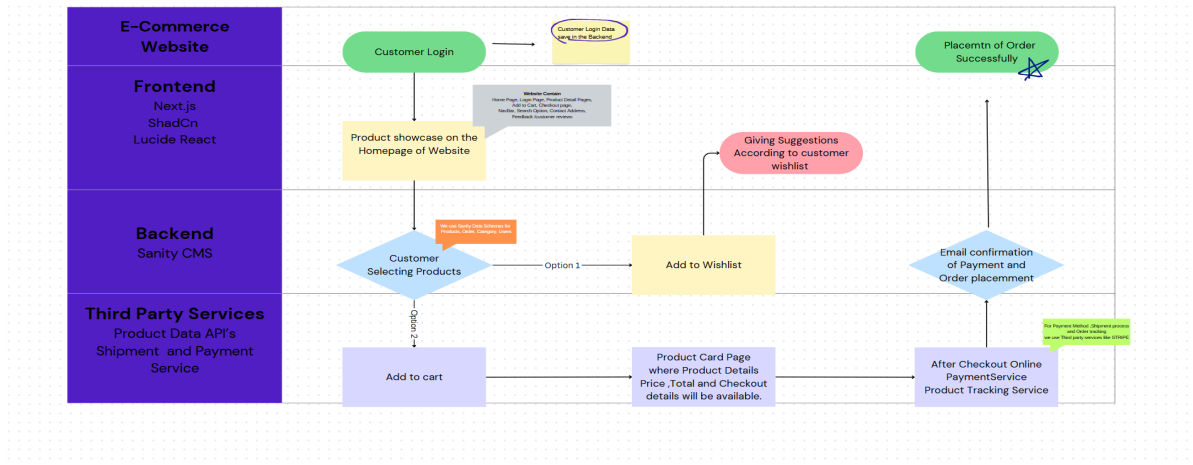
#### Backend:

- Data handled via Sanity.io
- Third-party Services e.g. Product Data APIS, Shipment Tracking, Payment
- Developed schemas for products, orders, and customer data.  
Guaranteed efficient content management and scalability.
- The frontend connects to

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

## Workflow:

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## 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."