3. API Requirements

Table of API Endpoints

Endpoint	Method	Description	Payload/Response Example

`/products`	GET	Fetch all product data	Response:
			```{```
			``` "id": 1,```
			``` "name": "Product A",```
			``` "price": 100,```
			``` "stock": 50```
			```}```

`/products/:id`	GET	Fetch specific product	Response:
			```{```
			``` "id": 1,```
			``` "name":```
			```"Product A",```
			``` "description":```
			```"Details" }```

`/orders`	POST	Create a new order	Payload:
			```{```
			``` "userId": 123,```
			``` "products": [...],```
			``` "totalPrice": 200```
			```}```

`/orders/:id/status`	GET	Fetch order status	Response:
			```{```
			``` "orderId": 123,```
			``` "status": "Shipped",```
			``` "ETA": "2 days"```
			```}```

`/payment`	POST	Process payment	Payload: ```{```
			```"amount": 200,```
			```"paymentMethod": "card/cash" }```

`/auth/login`	POST	User login authentication	Payload:
			```{```
			```"email": "user@example.com",```
			```"password": "xyz"```
			```}```

4. Sanity Schema Design

1. Product Schema

```
export default {
  name: 'product',
  type: 'document',
  title: 'Product',
  fields: [
    { name: 'name', type: 'string', title: 'Product Name' },
    { name: 'price', type: 'number', title: 'Price' },
    { name: 'description', type: 'text', title: 'Description' },
    { name: 'stock', type: 'number', title: 'Stock Level' },
    { name: 'image', type: 'image', title: 'Product Image' },
    { name: 'category', type: 'string', title: 'Category' },
  ],
};
```

2. User Schema

```
export default {
  name: 'user',
  type: 'document',
  title: 'User',
  fields: [
    { name: 'name', type: 'string', title: 'Full Name' },
    { name: 'email', type: 'string', title: 'Email Address' },
    { name: 'password', type: 'string', title: 'Password (Hashed)' },
    { name: 'address', type: 'text', title: 'Address' },
    { name: 'orderHistory', type: 'array', of: [{ type: 'reference', to: [{
type: 'order' }] }], title: 'Order History' },
  ],
};
```

3. Order Schema

```javascript
export default {
  name: 'order',
  type: 'document',
  title: 'Order',
  fields: [
    { name: 'userId', type: 'reference', to: [{ type: 'user' }], title:
'UserID' },
    {
      name: 'products',
      type: 'array',
      title: 'Ordered Products',
      of: [
        {
          type: 'object',
          fields: [
            { name: 'productId', type: 'reference', to: [{ type: 'product'
}], title: 'Product ID' },
            { name: 'quantity', type: 'number', title: 'Quantity' },
          ],
        },
      ],
    },
    { name: 'totalPrice', type: 'number', title: 'Total Price' },
    { name: 'status', type: 'string', title: 'Order Status', options: { list:
['Pending', 'Shipped', 'Delivered', 'Cancelled'] } },
    { name: 'orderDate', type: 'datetime', title: 'Order Date' },
  ],
};
```

4. Delivery Schema

```javascript
javascript
CopyEdit
export default {
  name: 'delivery',
  type: 'document',
  title: 'Delivery',
  fields: [
    { name: 'orderId', type: 'reference', to: [{ type: 'order' }], title:
'Order ID' },
    { name: 'courierId', type: 'string', title: 'Courier ID' },
    { name: 'status', type: 'string', title: 'Delivery Status', options: {
list: ['In Transit', 'Delivered', 'Failed'] } },
    { name: 'deliveryDate', type: 'datetime', title: 'Delivery Date' },
    { name: 'deliveryZone', type: 'string', title: 'Delivery Zone' },
  ],
};
```

5. Payment Schema

```javascript
CopyEdit
export default {
  name: 'payment',
  type: 'document',
  title: 'Payment',
  fields: [
    { name: 'orderId', type: 'reference', to: [{ type: 'order' }], title:
'Order ID' },
    { name: 'paymentAmount', type: 'number', title: 'Payment Amount' },
    { name: 'paymentMethod', type: 'string', title: 'Payment Method',
options: { list: ['Card', 'Cash on Delivery', 'UPI'] } },
    { name: 'paymentStatus', type: 'string', title: 'Payment Status',
options: { list: ['Pending', 'Completed', 'Failed'] } },
    { name: 'transactionDate', type: 'datetime', title: 'Transaction Date' },
  ],
};
```