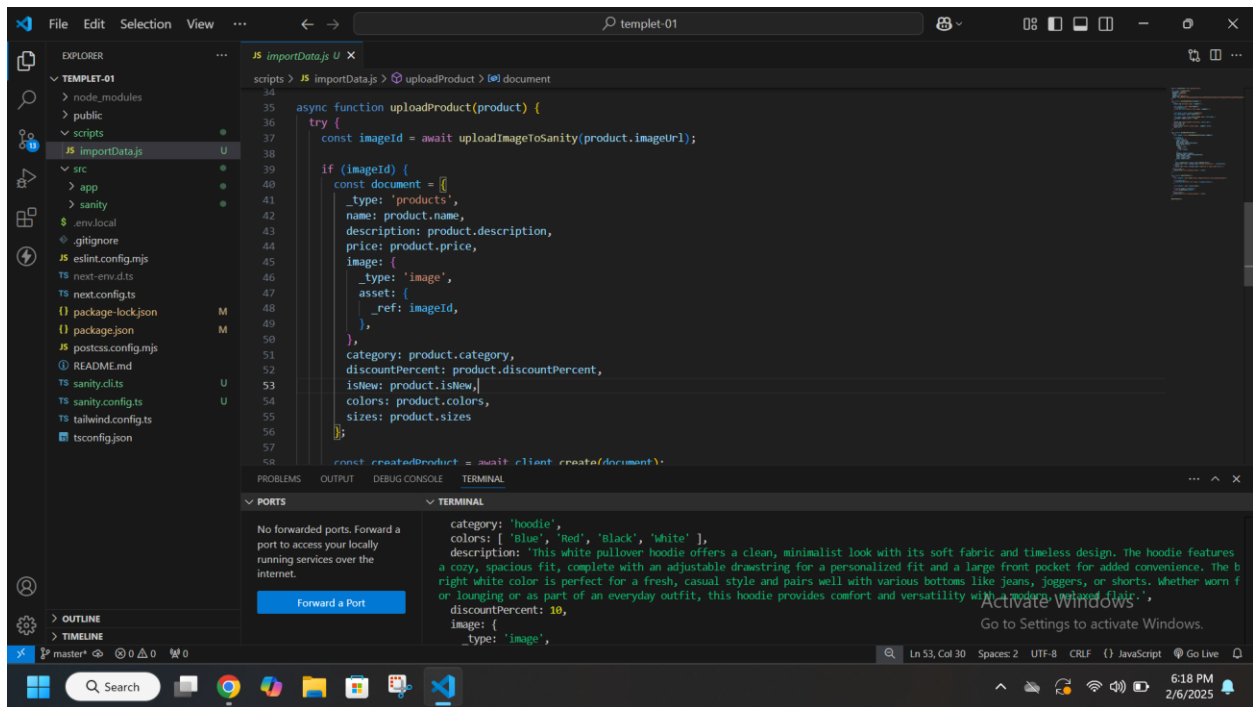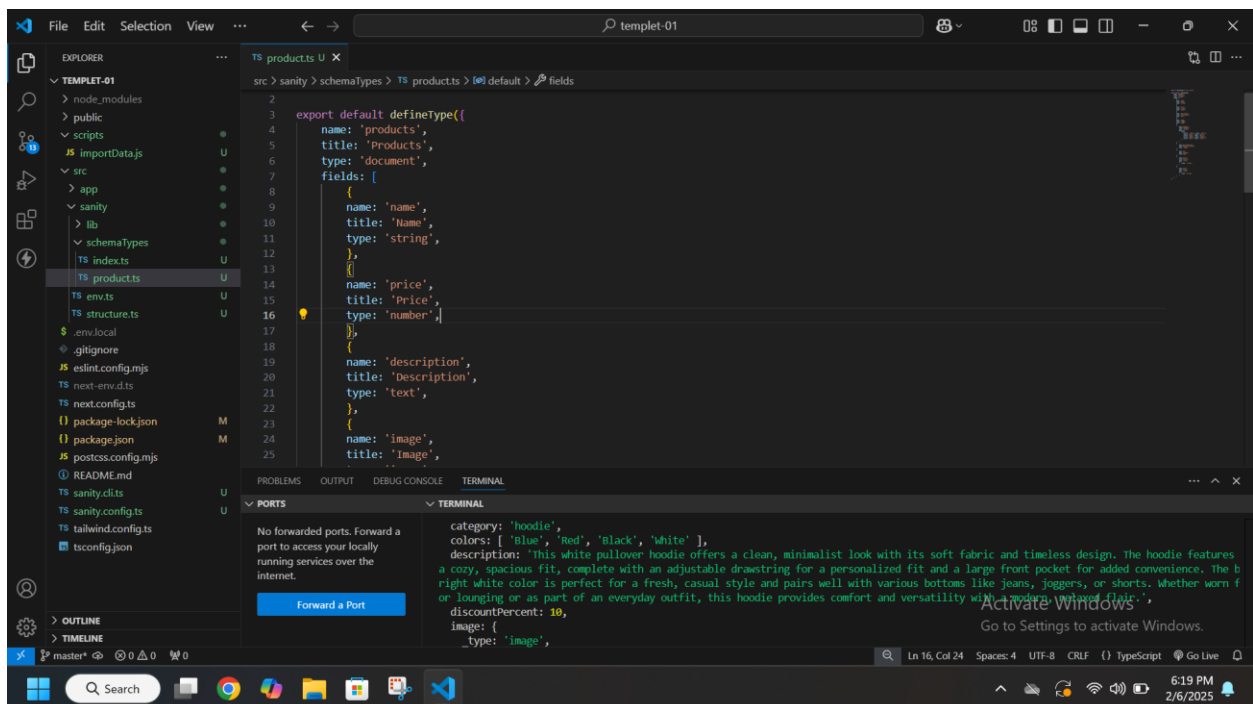**Introduction:**

This document outlines the procedures, guidelines, and best practices for integrating APIs and migrating data across systems. API integration ensures seamless communication between different software applications, while data migration involves transferring data from one system to another, ensuring that the integrity and usability of the data are maintained.

1. API Integration: API Integration refers to the process of connecting various software applications and systems using APIs (Application Programming Interfaces). APIs act as bridges, allowing different systems to communicate, exchange data, and perform functions automatically.
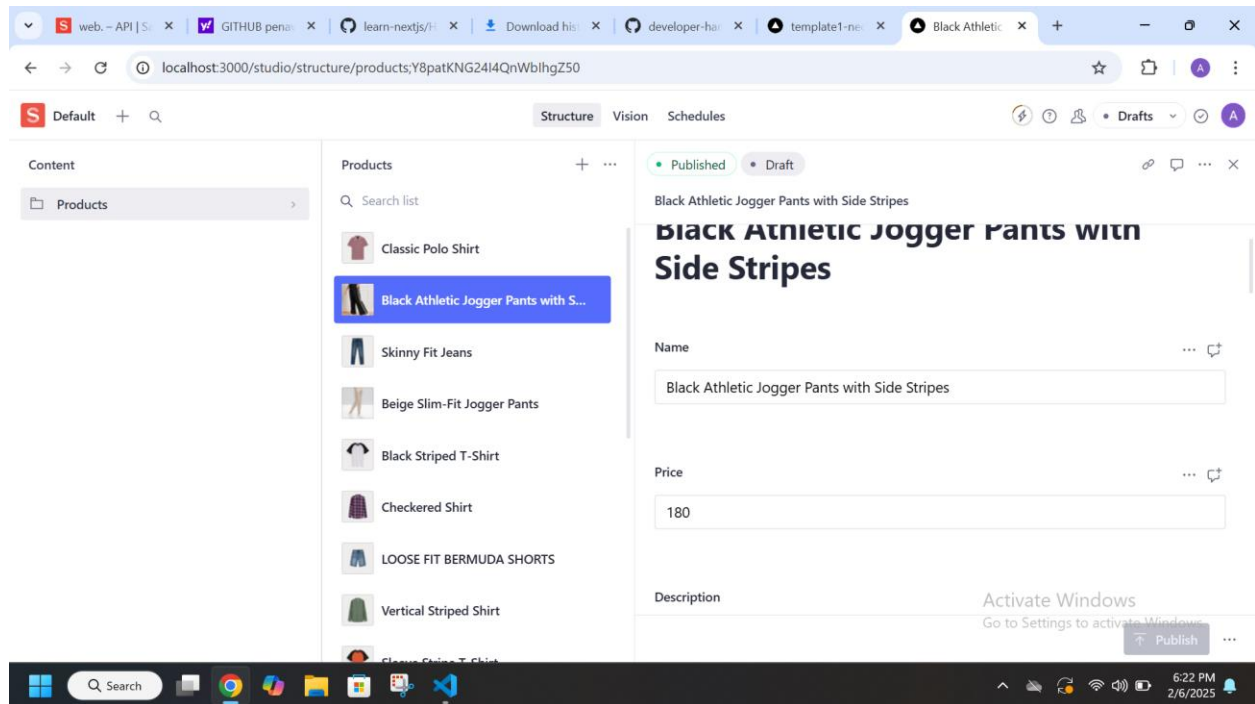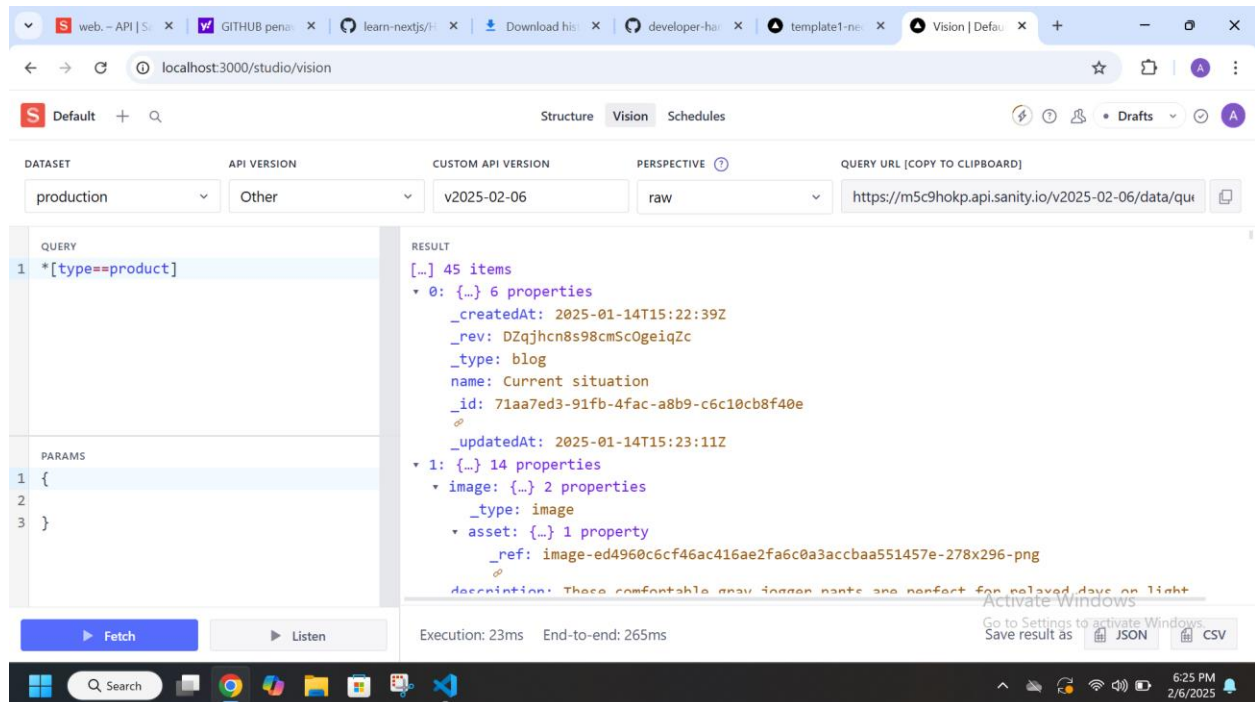
Code and data fetch in terminal:


```javascript
34
35    async function uploadProduct(product) {
36      try {
37        const imageId = await uploadImageToSanity(product.imageUrl);
38
39        if (imageId) {
40          const document = {
41            _type: 'products',
42            name: product.name,
43            description: product.description,
44            price: product.price,
45            image: {
46              _type: 'image',
47              asset: {
48                _ref: imageId,
49              },
50            },
51            category: product.category,
52            discountPercent: product.discountPercent,
53            isNew: product.isNew,
54            colors: product.colors,
55            sizes: product.sizes
56          };
57
58          const createdProduct = await client.create(document);
```

Terminal output:
```
        category: 'hoodie',
        colors: [ 'Blue', 'Red', 'Black', 'White' ],
        description: 'This white pullover hoodie offers a clean, minimalist look with its soft fabric and timeless design. The hoodie features
a cozy, spacious fit, complete with an adjustable drawstring for a personalized fit and a large front pocket for added convenience. The b
right white color is perfect for a fresh, casual style and pairs well with various bottoms like jeans, joggers, or shorts. Whether worn f
or lounging or as part of an everyday outfit, this hoodie provides comfort and versatility with a modern, relaxed flair.',
        discountPercent: 10,
        image: {
          _type: 'image',
```

Schema:


```typescript
2
3    export default defineType({
4        name: 'products',
5        title: 'Products',
6        type: 'document',
7        fields: [
8            {
9              name: 'name',
10             title: 'Name',
11             type: 'string',
12           },
13           {
14             name: 'price',
15             title: 'Price',
16             type: 'number',
17           },
18           {
19             name: 'description',
20             title: 'Description',
21             type: 'text',
22           },
23           {
24             name: 'image',
25             title: 'Image',
```

Terminal output:
```
        category: 'hoodie',
        colors: [ 'Blue', 'Red', 'Black', 'White' ],
        description: 'This white pullover hoodie offers a clean, minimalist look with its soft fabric and timeless design. The hoodie features
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        discountPercent: 10,
        image: {
          _type: 'image',
```

Product in Sanity:

Query:

Products fetch from sanity to frontend: