Day 6 - Deployment Preparation and Staging Environment Setup

Deployment Details:

• Hosting Platform: https://hackathon-4-dec.vercel.app/

• Repository Link: https://github.com/Future-Rafay/hackathon-4

• Staging URL: https://hackathon-8-dec.vercel.app/

A **Staging Environment Setup** refers to creating a replica of your production environment for testing purposes before deploying changes live. It allows you to identify bugs, performance issues, and integration problems in a safe environment.

Key Aspects of a Staging Environment Setup

1. **Infrastructure & Hosting**
   a. Use a similar or identical server setup as production (e.g., Vercel, AWS, DigitalOcean).
   b. Environment Setup Process:

c. o Selected hosting platform: Vercel.
d. o Connected GitHub repository to Vercel.
e. o Configured build settings and added environment variables for

2. Environment Variables:

NEXT_PUBLIC_SANITY_PROJECT_ID: Sanity project identifier.
NEXT_PUBLIC_SANITY_DATASET: Dataset name for production.
API_KEY: API key for third-party services.
o Uploaded environment variables securely to Vercel.

Admin Dashboard

All Pending Dispatch Succes

Orders

ID	Customer	Address	Date	Total	Status	Actions
1WHDkljrVtmQ1JyfE3Uzu4	Jlya shafiq	lyari	2/7/2025	$2830	Pending ⌄	Delete
1WHDkljrVtmQ1JyfE3V0E9	Jlya shafiq	lyari	2/7/2025	$2830	Pending ⌄	Delete
Q37rl3GcpJ7ynpZeHpDHXq	hina anwar	police hospital	2/6/2025	$7050	Pending ⌄	Delete
RmGWGQjtpROcu53zapuOXX	Jlya shafiq	lyari	2/4/2025	$2430	Pending ⌄	Delete
drafts.1SZ2cPHyv7F9krUNZgkAR2	Jlya shafiq	lyari	2/3/2025	$4140	Pending ⌄	Delete
drafts.ipBx6RZ6ggzActPpgA1UqN	Jlya shafiq	lyari	2/3/2025	$4140	Pending ⌄	Delete
g07bhheCr0YdC1Uw77AFGB	Abdul Rafay	Fb area	2/7/2025	$2050	Pending ⌄	Delete

f. Set up domain (e.g., `staging.yourdomain.com`).

2. **Database Configuration**
   a. Use a separate database from production.
   b. Consider using a snapshot or a reduced dataset for testing.
   c. Sync schema changes before deployment.

3. **Environment Variables**

```
NEXT_PUBLIC_SANITY_PROJECT_ID="bctdstw8"
NEXT_PUBLIC_SANITY_DATASET="production"
```

```
SANITY_API_TOKEN=skQCkduLaSsd6LFi2vGNdkgitFwGBucIvvGx8rTJSiY5EK0XvnRZuhgRK1m1T9of
8QecegGpZZAeeBRUo56CCu7rc91Sxm2XEhkmX3F7N5UOsdoUf08MucIertxUSVYaQnxf33tshbglc7QYR
tgDqehId4vU9v33ppkL7boGko6Rjmm8CXA7
NEXT_PUBLIC_SANITY_ORDER_API_KEY="ske0nwF6kWkMCtAZuEXbWXsa2GaYzwjHtybpVJgIW2pcXz4
lDn6ssupXw1arSgtM3JwwQPmMGeqtSaAs9l2DVrKFckytNr5Uxrd30tP3MBlNU6baX0PPQ2wsEq9dr6SM
Q85tx4qQrlXYDP3PrQ000hDAcyIUxwY5qcyWrl1FdCd6QkUbEb4Z"
```

    a. Create a `.env.staging` file with staging-specific variables.

    b. Example for Next.js:

env
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NEXT_PUBLIC_API_URL=https://staging.api.yourdomain.com
SANITY_DATASET=staging

4. **Code Deployment**

    a. Set up a separate branch (e.g., `staging`) in Git.

    b. Automate deployments via CI/CD (e.g., GitHub Actions, Vercel, Netlify).

5. **Authentication & Security**

    a. Restrict access using basic authentication or VPN.

b. Use separate API keys and authentication credentials.

6. Testing & Debugging

a. Perform UI/UX testing, integration testing, and performance monitoring.

b. Log errors using monitoring tools like Sentry.

```
      discountPercentage: item.discountPercentage || 0,
      stockLevel: item.stockLevel || 0,
      isFeaturedProduct: item.isFeaturedProduct,
      image: imageRef
        ? {
            _type: 'image',
            asset: {
              _type: 'reference',
              _ref: imageRef,
            },
          }
        : undefined,
    };

    console.log(`Uploading ${sanityItem.category} - ${sanityItem.name} to Sanity !`);
    const result = await client.create(sanityItem);
    console.log(`Uploaded Successfully: ${result._id}`);
    console.log("-------------------------------------------------------")
    console.log("\n\n")
  }

  console.log('Data Import Completed Successfully !');
} catch (error) {
  console.error('Error Importing Data : ', error);
}
```
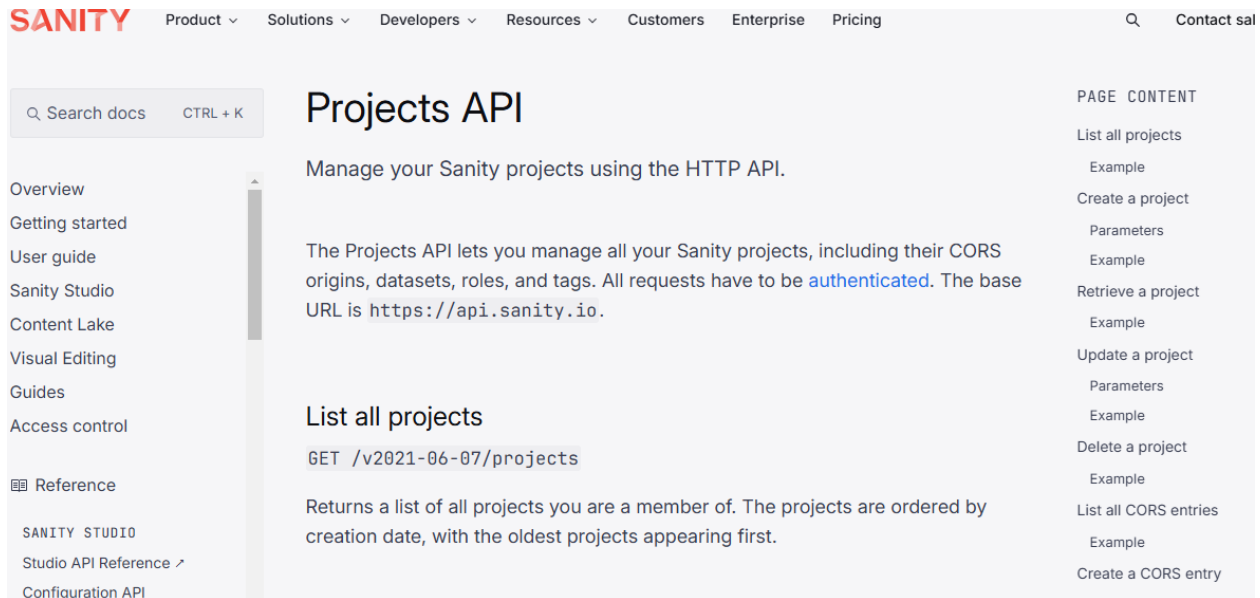```
importData();
```

## 7. Sanity.io Setup for Staging

a. Create a separate dataset (`staging`).

b. Configure your Next.js project to use this dataset.

c. Example `sanity.config.ts`:

```ts
ts
CopyEdit
export default defineConfig({
  dataset: process.env.SANITY_DATASET ||
```



```ts
  "staging",
});
```

8. **Final Checks Before Deployment**
   a. Verify feature functionality.
   b. Ensure performance and security compliance.
   c. Get approval before pushing to production.

Would you like a specific step-by-step guide for Next.js 14 and Sanity?

4o

```
export interface Product{
   _id : string;
   name:string;
   _type :"product";
   image? : {
    asset :{
        _ref : string;
        _type : 'image';


    }
   };
   price:number;
   description?: string;
   slug:{
    _type:'slug'
    current:string
   }


   stockLevel : number;
};

const descriptionField = {
    name: "description",
    type: "string", // Ensuring consistency for short text fields
    title: "Description",
    description: "Provide a short description (max 150 characters).",
    validation: (Rule: any) =>
      Rule.max(150).warning("Keep the description under 150 characters."),
  };
```

Search

Reason

```
    setComments((prevComments) => prevComments.filter((c) => c.id !== id));
};
```

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Slot: Tuesday 2 to 5