

# Quickstart guide

This guide will help you set up a project to retrieve and display chart data using the 1inch Charts API. You'll create a Node.js backend to handle API requests and serve data, and a React frontend to display this data in a user-friendly way.

Once finished, you'll have built a simple yet powerful NFT collection viewer that you can expand upon and customize!

## Prerequisites

- You'll need Node.js and npm installed.
- Basic knowledge of JavaScript, React, and Express.js.

## Step 1: Set Up the Node Backend

This backend will handle API requests, fetch data from the Charts API, and serve your frontend React application.

### 1.1. Create a new project directory

```
mkdir nft-collection && cd nft-collection
```

### 1.2. Initialize a new Node.js project

This will create the `package.json` file.

```
npm init -y
```

### 1.3. Install necessary packages

- Express: A web framework for Node.js, used to build the backend server.
- Axios: A HTTP client, used to make API requests.

- CORS: Middleware to handle Cross-Origin Resource Sharing, essential when the frontend and backend are on different ports.
- Path: A Node.js module for working with file and directory paths.

```
npm install express axios cors path
```

## 1.4. Set up a basic Express server

Create a file named `api.js` and add the following code. This will initialize an Express server to handle API requests and serve the React app (see Step 2 below).

```
const express = require("express");
const axios = require("axios");
const cors = require("cors");
const path = require("path");

const app = express();
const PORT = 3000;
const BASE_URL = "https://api.1inch.dev/charts/v1/...";

app.use(cors()); // Handle CORS issues

// Serves static files from the React app
app.use(express.static(path.join(__dirname, "client/build")));

// Endpoint to fetch chart data
app.get("/charts", async (req, res) => {
  try {
    const response = await axios.get(BASE_URL, {
      headers: { Authorization: `Bearer ${process.env.API_KEY}` },
    });
    res.send(response.data);
  } catch (error) {
    console.error("Error fetching charts data:", error);
    res.status(500).json({ error: "Failed to fetch charts data" });
  }
});

// Serve the React app for other routes
app.get("*", (req, res) => {
  res.sendFile(path.join(__dirname, "client/build", "index.html"));
});

app.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});
```

## Step 2: Setting Up React Frontend

The frontend will display the data fetched from the backend API.

## 2.1. Create a new React app

This creates a new React application for your frontend code.

```
npx create-react-app client
```

## 2.2. Navigate to the React app directory

```
cd client
```

## 2.3. Install Axios

This will be used to make HTTP requests from the React app to the backend.

```
npm install axios
```

## 2.4. Create an NFT list component

This component will handle fetching and displaying NFT data. Create a file with this directory and name: `src/NFTList.js`. Then add the following code:

```
import React, { useState, useEffect } from "react";
import axios from "axios";

const NFTList = ({ address }) => {
  // Initialize state to store NFT data
  const [nfts, setNfts] = useState([]);

  useEffect(() => {
    // Fetch NFT data from the server
    const fetchData = async () => {
      try {
        // Fetch NFTs for the given address
        const response = await axios.get(`/fetchNfts?address=${address}`);
        // Update the state with the fetched NFT data
        setNfts(response.data.assets);
      } catch (error) {
        console.error("Error fetching NFTs:", error);
      }
    };

    fetchData();
  }, [address]); // Refetch if the address changes

  return (
    <div className="Nft-list">
      {/* Render the list of NFTs */}
      {nfts.map((nft) => (
        <div key={nft.id}>
          <img src={nft.image_url} alt={nft.name} width="150" />

```

```

        <h2>{nft.name}</h2>
        <p>{nft.description}</p>
      </div>
    )})
  </div>
);
};

export default NFTList;

```

## 2.5. Update the main App component

Integrate the NFT list component into the main application. Add this to `src/App.js`:

```

import React from "react";
import "./App.css";
import NFTList from "./NFTList";

function App() {
  return (
    <div className="App">
      <header className="App-header">
        <h1>My NFT Collection</h1>
      </header>
      <NFTList address="0xd8da6bf26964af9d7eed9e03e53415d37aa96045" />
    </div>
  );
}

export default App;

```

## Step 3: Running the Project

### 3.1. Start the Express server

```
node api.js
```

### 3.2. Start the React app

Navigate to the client directory and run the React development server:

```
cd client
npm start
```

You should now have a functional application for viewing NFT collections! While primitive, this framework can easily be built upon with features such as web3 wallet connections, auction mechanics, and more.

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