

Below are five coding test ideas that require building a **live web app** which interacts with a public API. Each can be done within about an hour (give or take), using **JavaScript/React/Python/PHP** (or any combination). These tests focus on core functionality—API integration, basic UI, and async programming—rather than heavy styling.

**Note:** Live apps deployed on any platform like '<https://vercel.com/>' or '<https://streamlit.io/>' or any other of your choice would be given highest weightage, instead of plain github repo links

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## 1. Movie Search App using the [OMDb API](#)

### Requirements:

1. **Search bar:** Users can type a movie title.
2. **Fetch** results from the OMDb API based on the search term.
3. **Display** a list/grid of movie results (poster, title, year).
4. **Detail view:** Clicking on a movie shows more details (plot, actors, etc.).

### Key Skills Tested:

- Consuming a third-party REST API with GET requests.
  - Managing component or view state for search terms/results.
  - Parsing JSON data and rendering it in the UI.
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## 2. Weather Dashboard using the [OpenWeatherMap API](#)

### Requirements:

1. **Search bar:** User enters a city name.
2. **Fetch** the current weather data for that city.
3. **Display** temperature, description, humidity, and so on.
4. Add a **5-day forecast** view.

### Key Skills Tested:

- Using an API that requires a key (minimal sign-up required).
- Handling asynchronous requests and loading/error states.
- Parsing JSON to show multiple pieces of data (current weather, forecast).

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### 3. Pokémon Info App using the [PokéAPI](#)

#### Requirements:

1. **Search** or **dropdown**: Let users pick a Pokémon by name or ID.
2. **Fetch** data from the PokéAPI.
3. **Display** Pokémon image, name, types, and stats.
4. Navigate to **previous/next** Pokémon.

#### Key Skills Tested:

- Interacting with a free, no-auth required REST API.
  - Rendering images, text, stats in a user-friendly layout.
  - Possibly using routing or query parameters in React or a simple server framework.
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### 4. Random Cat Images Gallery using [The Cat API](#)

#### Requirements:

1. **Fetch** multiple cat images from The Cat API.
2. **Display** them in a grid or list view.
3. Add a “**Load More**” or “**Refresh**” button to fetch new images.
4. Let user filter by breed.

#### Key Skills Tested:

- Integrating a public API that returns images.
  - Basic layout (gallery, cards).
  - Handling parameters (breed filter, limit, etc.).
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## General Guidelines

#### 1. Tech Stack:

- **Front End**: React or plain JavaScript (or a minimal Flask/PHP template).
- **Back End** (optional): If you need to proxy requests, use Node/Express, Flask, or simple PHP.

## 2. **Getting Started:**

- Use quick-start boilerplates (e.g., Create React App, a minimal Flask/Node template) to save setup time.

## 3. **Focus:**

- Make **API calls** to fetch data.
- **Render** results in a simple, usable interface.
- Handle **loading** and **errors** gracefully.
- Optionally add a **search**, **filter**, or simple detail page.

## 4. **Styling:**

- Keep it minimal (just enough so the layout is clear).

## 5. **Testing:**

- In a 1-hour test, just open in a browser to ensure data is fetched and displayed properly.

These challenges demonstrate your ability to connect to an external API, parse and render data, and implement basic UI functionality in a short timeframe. Good luck!