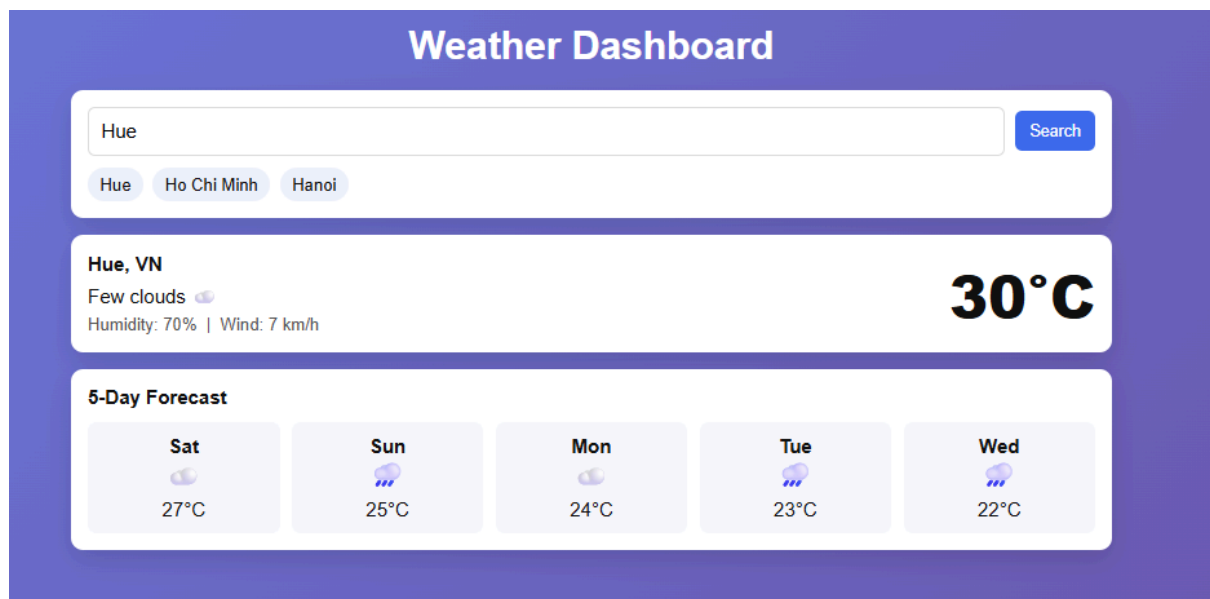


WEB APPLICATION ASSIGNMENT LAB 3

Student ID: ITCSIU21160

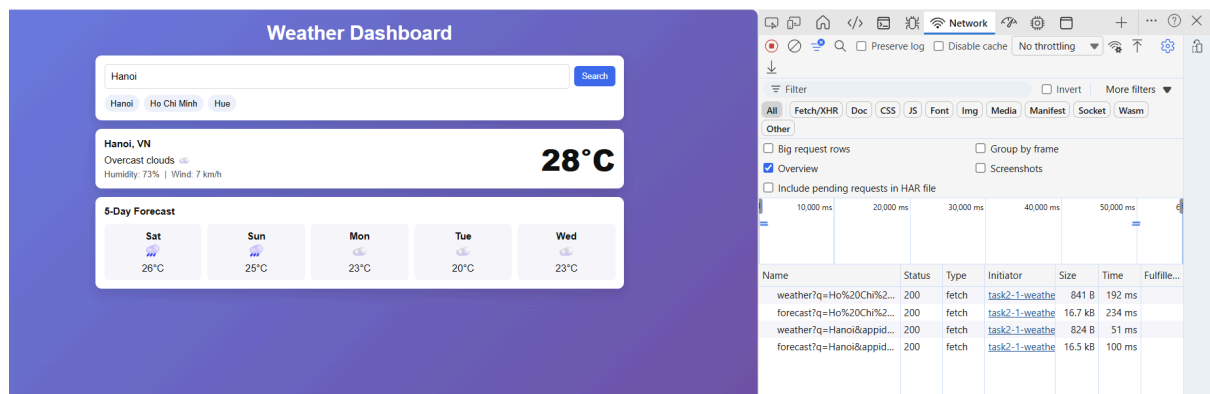
Student name: Ngô Thị Thương

Task 2.1: Weather Dashboard



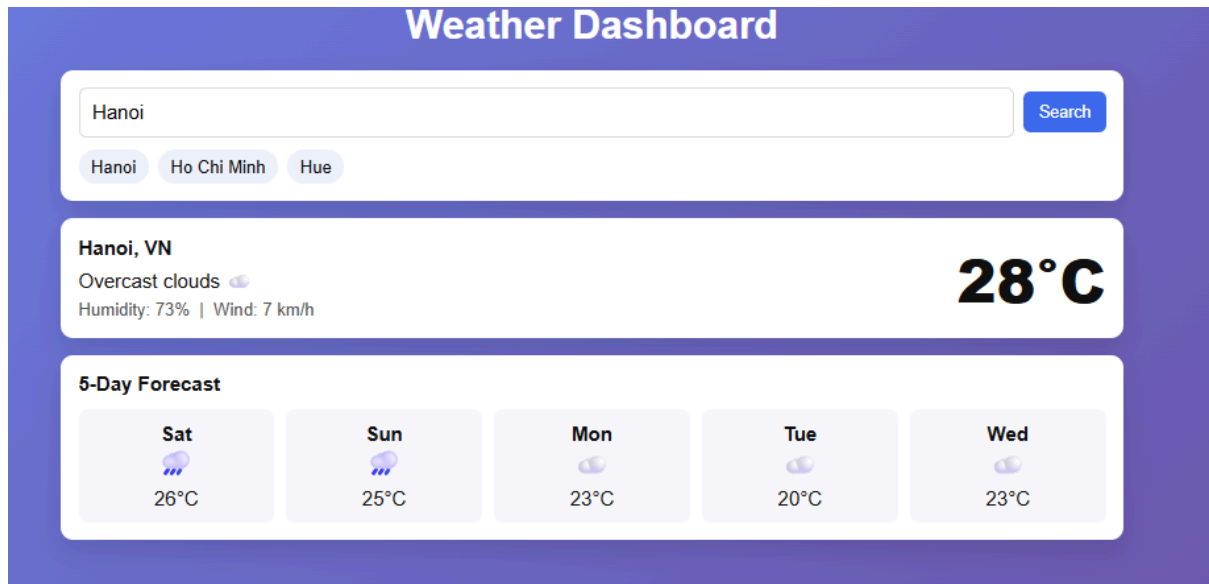
1. API integration works:

Network panel shows HTTP 200 responses from OpenWeatherMap for both current weather and forecast requests; responses contain JSON payloads with "weather" and "main"



2. Current weather display:

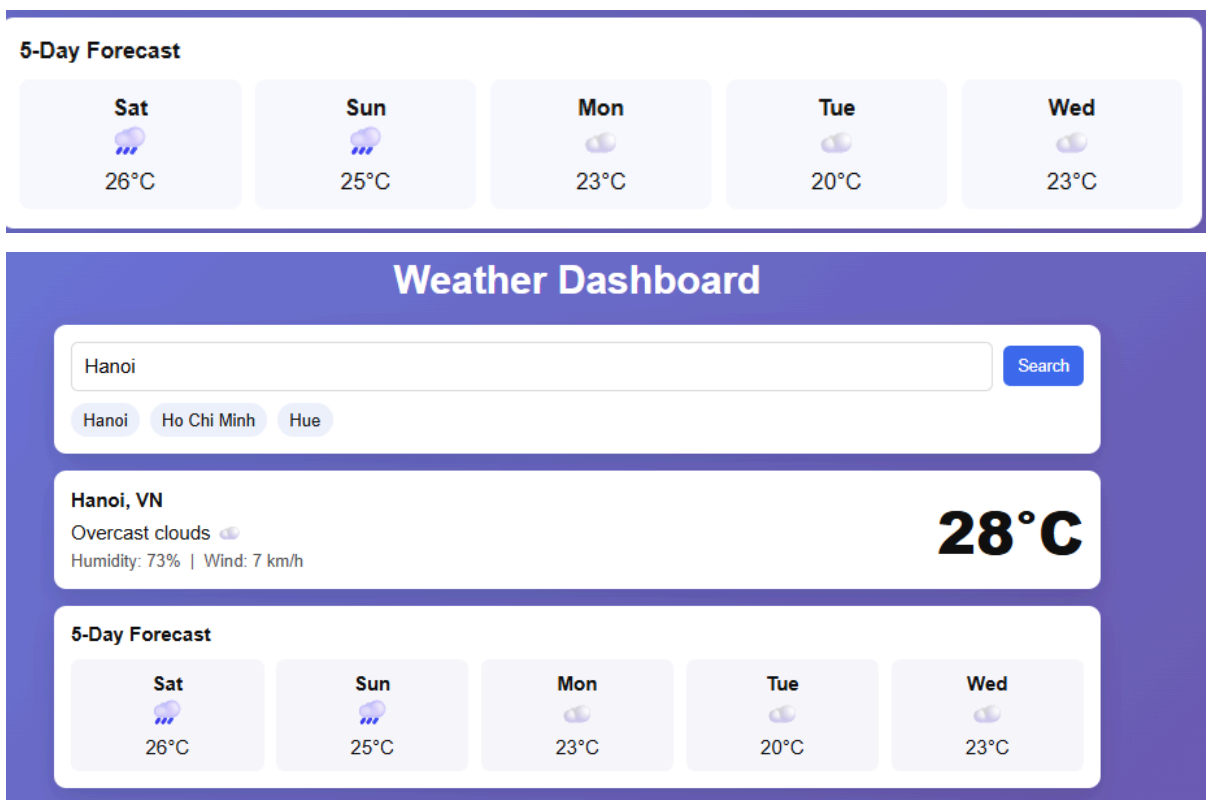
Current weather hiển thị: Hanoi, 28°C, Scattered clouds, Humidity 73%, Wind 7 km/h:



Code:

```
// hiển thị current weather (tên, mô tả, humidity, wind)
function displayCurrent(data){
  const name = `${data.name}${data.sys?.country ? ', ' + data.sys.country : ''}`;
  const descRaw = data.weather[0].description || '';
  const desc = descRaw.charAt(0).toUpperCase() + descRaw.slice(1); // viết hoa đầu
  const emoji = ICON[data.weather[0].main] || '☁️';
  const temp = Math.round(data.main.temp);
  const humidity = data.main.humidity;
  const windKmh = Math.round((data.wind?.speed || 0) * 3.6); // m/s -> km/h
  currentEl.innerHTML = `
    <div class="card">
      <div class="current-row">
        <div>
          <div class="city-info">${name}</div>
          <div style="margin-top:6px">${desc} ${emoji}</div>
          <div class="meta">Humidity: ${humidity}% &nbsp;&nbsp;&nbsp; Wind: ${windKmh} km/h</div>
        </div>
        <div class="temp">${temp}°C</div>
      </div>
    </div>
  `;
}
```

3. 5-day forecast display:



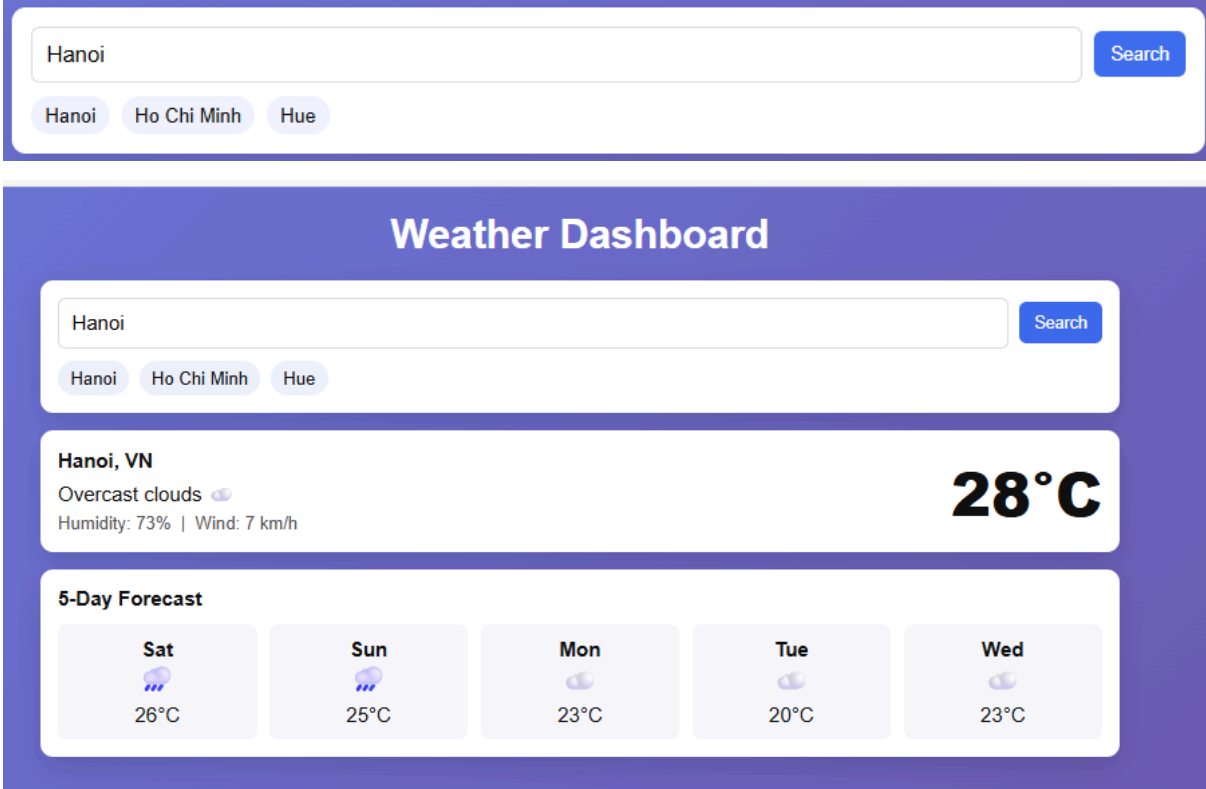
Code:

```
// lọc forecast: chọn record có "12:00:00" mỗi ngày (1 entry/ngày)
function pickDaily(list){
  const map = {};
  for(const item of list){
    const [date, time] = item.dt_txt.split(' ');
    if(!map[date] || time === '12:00:00') map[date] = item;
  }
  return Object.keys(map).slice(0,5).map(d => map[d]);
}

// hiển thị forecast 5 ngày đơn giản
function displayForecast(data){
  const items = pickDaily(data.list || []);
  if(!items || items.length === 0){ forecastEl.innerHTML = ''; return; }
  let html = '<div class="card"><div style="font-weight:700;margin-bottom:8px">5-Day Forecast</div><div class="fore';
  for(const it of items){
    const dt = new Date(it.dt * 1000);
    const day = dt.toLocaleDateString(undefined, {weekday:'short'});
    const t = Math.round(it.main.temp);
    const em = ICON[it.weather[0].main] || '☁️';
    html += '<div class="fitem"><div style="font-weight:700">${day}</div><div style="font-size:22px">${em}</div><div style="font-size:22px">${t}</div></div>';
  }
  html += '</div></div>';
  forecastEl.innerHTML = html;
}
```

4. Recent searches with localStorage

Recent searches lưu vào localStorage dưới key recent_weathers



Name	Status	Type	Initiator	Size	Time	Fulfille...
weather?q=Hanoi&appid=...	200	fetch	task2-1-weather:	824 B	227 ms	
forecast?q=Hanoi&appid=...	200	fetch	task2-1-weather:	16.5 kB	280 ms	
weather?q=Ho%20Chi%20...	200	fetch	task2-1-weather:	841 B	51 ms	
forecast?q=Ho%20Chi%20...	200	fetch	task2-1-weather:	16.7 kB	95 ms	
weather?q=Ho%20Chi%20...	200	fetch	task2-1-weather:	841 B	47 ms	
forecast?q=Ho%20Chi%20...	200	fetch	task2-1-weather:	16.7 kB	101 ms	
weather?q=Hue&appid=55...	200	fetch	task2-1-weather:	809 B	51 ms	
forecast?q=Hue&appid=55...	200	fetch	task2-1-weather:	16.6 kB	95 ms	
weather?q=Hue&appid=55...	200	fetch	task2-1-weather:	809 B	45 ms	
forecast?q=Hue&appid=55...	200	fetch	task2-1-weather:	16.6 kB	99 ms	

```
const forecastEl = document.getElementById('forecast');

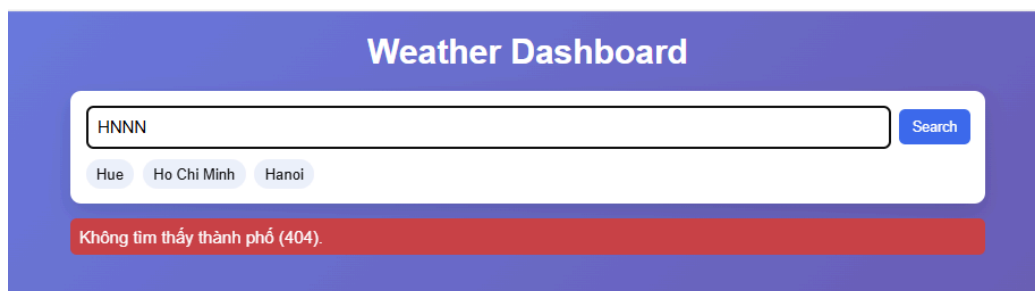
// load recent searches từ localStorage (max 5)
function loadRecent(){
  const arr = JSON.parse(localStorage.getItem('recent_weathers') || '[]');
  recentEl.innerHTML = arr.map(c => `<div class="chip" onclick="onRecent('${escapeHtml(c)}')">${c}</div>`).join('');
}

// helper escape cho onclick string
function escapeHtml(s){ return s.replace(/'/g, "\\'").replace(/"/g, '"'); }

// lưu recent search mới, giữ unique, max 5
function saveRecent(city){
  if(!city) return;
  const key = 'recent_weathers';
  const arr = JSON.parse(localStorage.getItem(key) || '[]');
  const n = city.trim();
  const filtered = arr.filter(x => x.toLowerCase() !== n.toLowerCase());
  filtered.unshift(n);
  localStorage.setItem(key, JSON.stringify(filtered.slice(0,5)));
  loadRecent();
}
```

5. Error handling

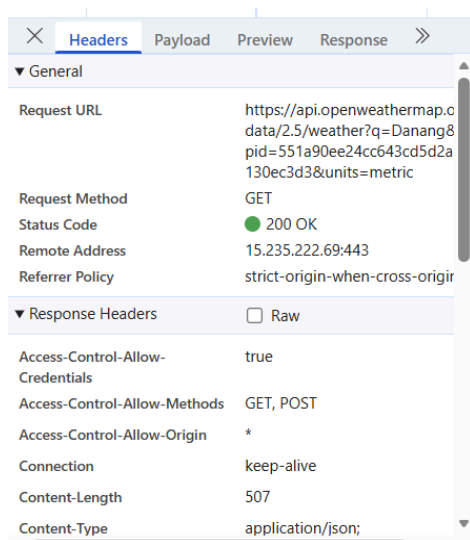
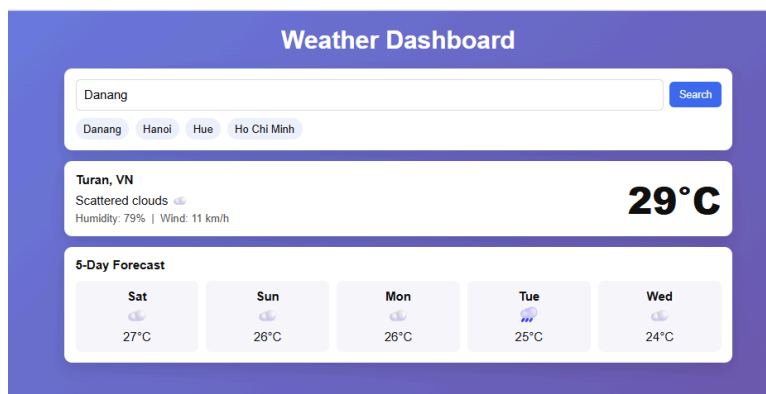
Không tìm thấy thành phố



JSON:

weather?q=HNNN&appid=...	404	fetch	task2-1-weather	359 B	262 ms
forecast?q=HNNN&appid=...	404	fetch	task2-1-weather	360 B	261 ms

6. Loading state:



```
// hàm tìm chính: gọi API, xử lý loading, lỗi, lưu recent
async function searchWeather(){
  const city = cityInput.value.trim();
  if(!city){ showError('Nhập tên thành phố.');
```

```
  return; }
  clearError();
  currentEl.innerHTML = `<div class="loading">Loading current weather...</div>`;
  forecastEl.innerHTML = `<div class="loading">Loading forecast...</div>`;
  try {
    // gọi song song 2 API
    const [cur, fcast] = await Promise.all([fetchWeather(city), fetchForecast(city)]);
    displayCurrent(cur);
    displayForecast(fcast);
    saveRecent(city);
  } catch (err) {
    if(err && err.status === 404) showError('Không tìm thấy thành phố (404).');
```

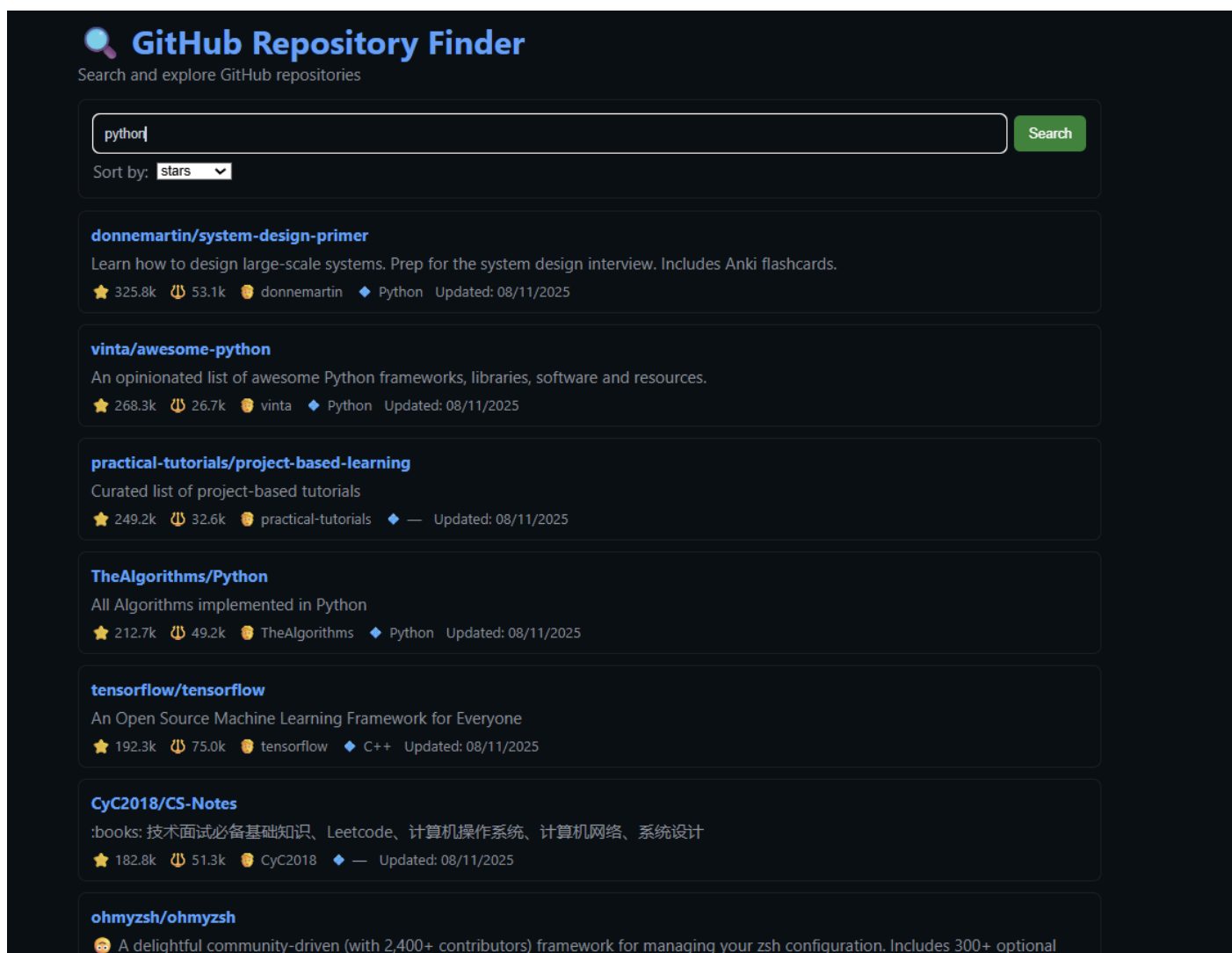
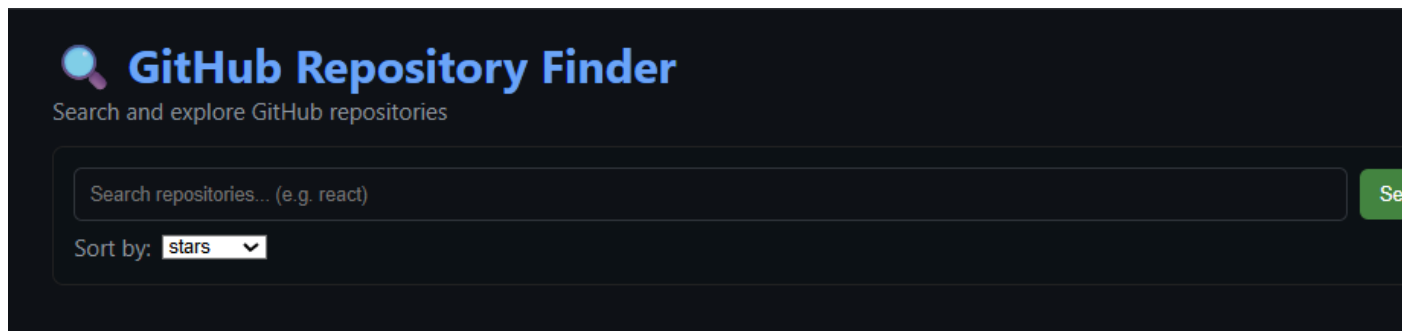
```
    else if(err && err.status === 401) showError('API key không hợp lệ (401).');
```

```
    else if(err && err.status === 429) showError('Quá nhiều yêu cầu (rate limit).');
```

```
    else showError('Lỗi khi lấy dữ liệu thời tiết.');
```

```
    currentEl.innerHTML = '';
    forecastEl.innerHTML = '';
  }
}
```

Task 2.2: GitHub Repository Finder



1. Search functionality works

Search for "python" returns repository list; requests to GitHub Search API returned HTTP 200.

The screenshot shows the GitHub Repository Finder application. At the top, there's a search bar with the text "react" and a "Search" button. Below the search bar, it says "Sort by: updated". The main content area displays a list of repositories, each with a star icon, a fork icon, the repository name, a description, and the update date. The repositories listed are:

- Ayushrana27/Dockerize-a-React-Application-with-Multi-Stage-Build**: Updated: 08/11/2025
- magicolala/Neo-Chess-Board-Ts-Library**: Canvas chessboard library for TypeScript and React with PGN tooling, customizable themes, and smooth Canvas rendering for modern chess apps. Updated: 08/11/2025
- MishraTanishq619/mock-ecom-cart**: React + Vite + Tailwind frontend for Mock E-Com Cart. Updated: 08/11/2025
- mass0n30/Retro-gaming-catalog**: Project focusing on React routes, react testing, API, react styling. Built from IGDB Twitch API, finding retro games statistics, screenshots, by categories - with a twist. Updated: 08/11/2025
- GOveling/Goveling-rn2025**: Goveling app en React.native + Expo Updated: 08/11/2025
- anvar-sharipov/Billing-System-v2-Django-React**: Billing system v2 with django, react+vite, postgres, tailwindcss, motion-framer Updated: 08/11/2025
- RenzDungo/MTGGameAssistant**: MTG Game Assistant Web Application created in React with TypeScript

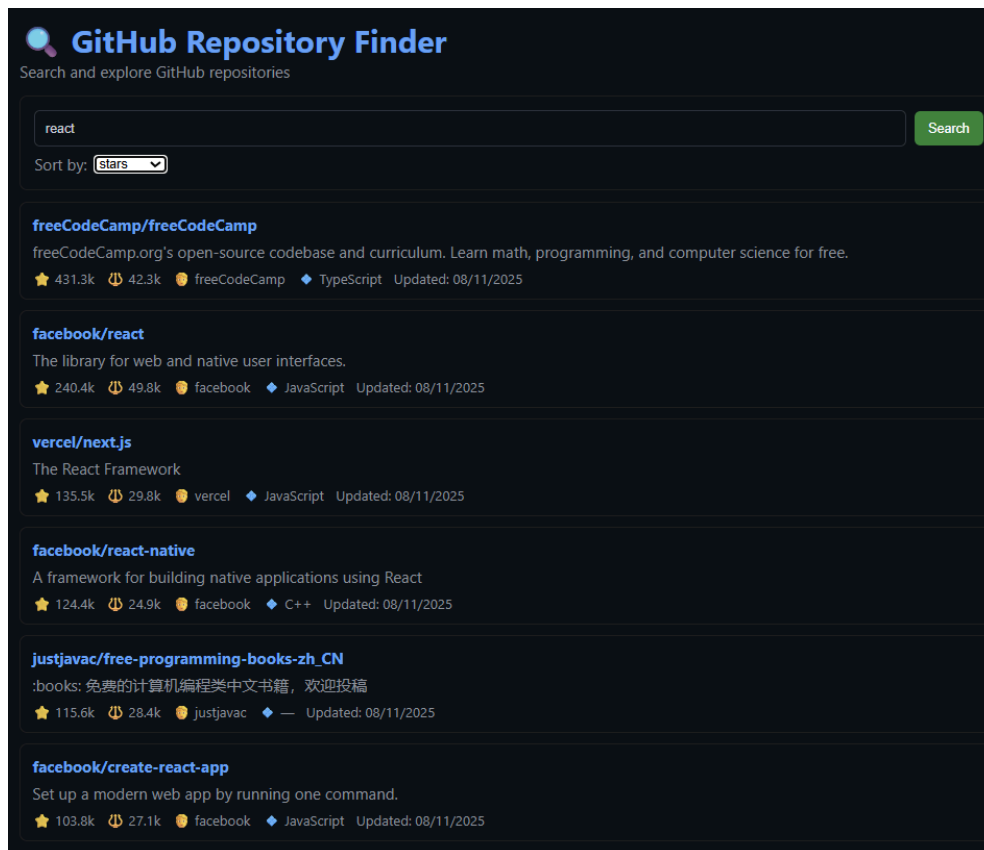
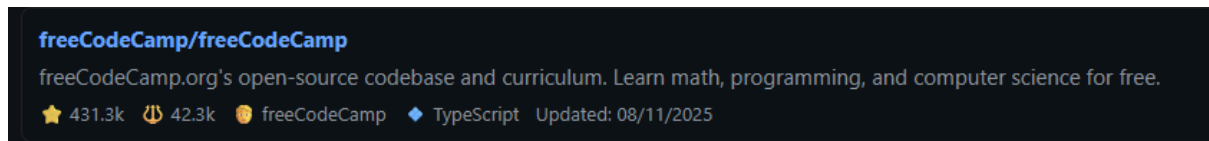
The screenshot shows the GitHub Repository Finder application with the Network tab open in the browser. The Network tab displays a list of requests, including the search request for "react". The table shows the following data:

Name	Status	Type	Initiator	Size	Time	Fulfile...
repositories?q=react&sort=...	200	fetch	task2-2-github-f	8.5 kB	826 ms	
repositories?q=react&sort=...	200	fetch	task2-2-github-f	7.8 kB	635 ms	

At the bottom of the Network tab, it shows "2 requests 16.2 kB transferred 132 kB resources".

2. Repository cards display correctly

Each repository card shows full_name, description, stars, forks, owner, language and updated date.



Code:

```
*/
function createRepoCard(repo){
  const desc = repo.description ? repo.description : '';
  const lang = repo.language ? repo.language : '-';
  return `
    <div class="repo">
      <div><a href="${repo.html_url}" target="_blank" rel="noopener">${repo.full_name}</a></div>
      <div class="repo-desc" style="color:#8b949e;margin-top:6px">${desc}</div>
      <div class="meta">
        <div>★ ${formatNumber(repo.stargazers_count)}</div>
        <div>🍴 ${formatNumber(repo.forks_count)}</div>
        <div>👤 ${repo.owner?.login || '-'}</div>
        <div class="language">💎 ${lang}</div>
        <div>Updated: ${new Date(repo.updated_at).toLocaleDateString()}</div>
      </div>
    </div>
  `;
}
```

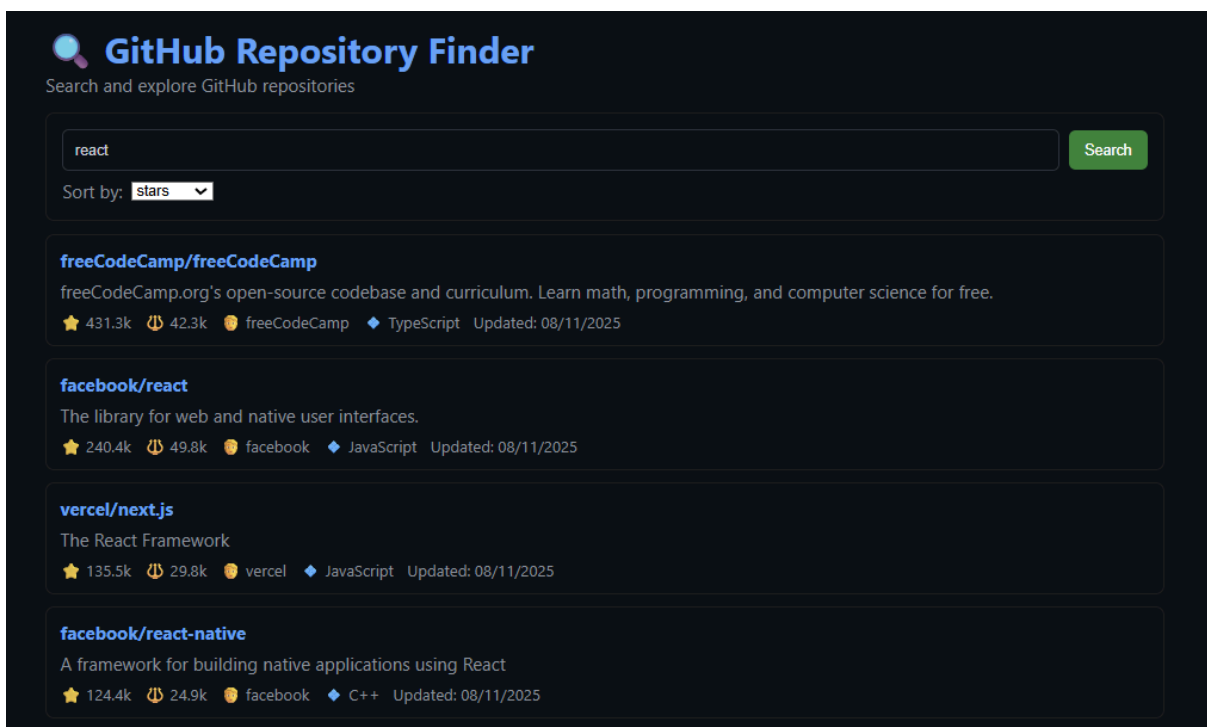
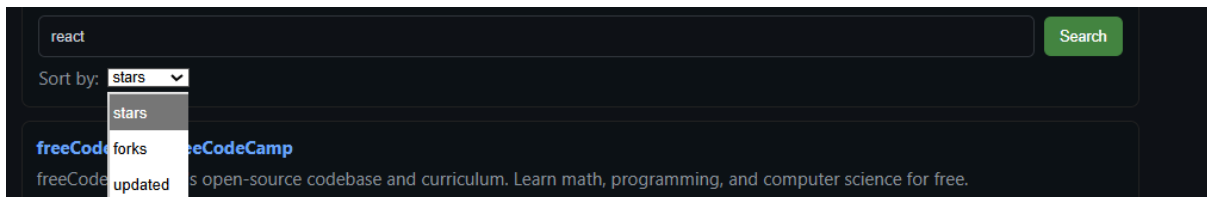
```

function displayRepositories(items, append=false){
  if(!append) repoListEl.innerHTML = '';
  if(!items || items.length === 0){
    if(!append) repoListEl.innerHTML = `<div class="empty">No results</div>`;
    return;
  }
  const html = items.map(createRepoCard).join('');
  if(append) repoListEl.insertAdjacentHTML('beforeend', html);
  else repoListEl.innerHTML = html;
}

```

3. Sort functionality

Sort by "stars" triggers API request with sort=stars and shows highest-starred repos first



fork:

GitHub Repository Finder

Search and explore GitHub repositories

react

Search

Sort by: forks

ChatGPTNextWeb/NextChat

Light and Fast AI Assistant. Support: Web | iOS | MacOS | Android | Linux | Windows

86.4k 60.9k ChatGPTNextWeb TypeScript Updated: 08/11/2025

ant-design/ant-design

An enterprise-class UI design language and React UI library

96.6k 53.9k ant-design TypeScript Updated: 08/11/2025

facebook/react

The library for web and native user interfaces.

240.4k 49.8k facebook JavaScript Updated: 08/11/2025

freeCodeCamp/freeCodeCamp

freeCodeCamp.org's open-source codebase and curriculum. Learn math, programming, and computer science for free.

431.3k 42.3k freeCodeCamp TypeScript Updated: 08/11/2025

mui/material-ui

Material UI: Comprehensive React component library that implements Google's Material Design. Free forever.

97.0k 32.7k mui JavaScript Updated: 08/11/2025

update:

GitHub Repository Finder

Search and explore GitHub repositories

react

Search

Sort by: updated

ismailhabeeb/mommenta

A modern social media platform built with React, Node.js, and MongoDB — featuring posts, comments, media uploads, and real-time engagement.

0 0 ismailhabeeb JavaScript Updated: 08/11/2025

NgocDuyAndroidVN/mo-portfolio-2025

Explore Mohamed Datt's creative portfolio, showcasing skills in design and development with a focus on innovative solutions and seamless user experiences.

0 0 NgocDuyAndroidVN TypeScript Updated: 08/11/2025

yasfei/interface-busca-next-react

Aplicação web para consumo da OMDb API, utilizando Next.js, Tailwind CSS, React e JavaScript.

0 0 yasfei JavaScript Updated: 08/11/2025

Mayankaggarwal8055/CodeSphere

CodeSphere is an modern full-stack web-based code editor built with React, Express, Prisma, and Code Mirror — featuring real-time editing, syntax highlighting, authentication, and a clean, developer-focused UI.

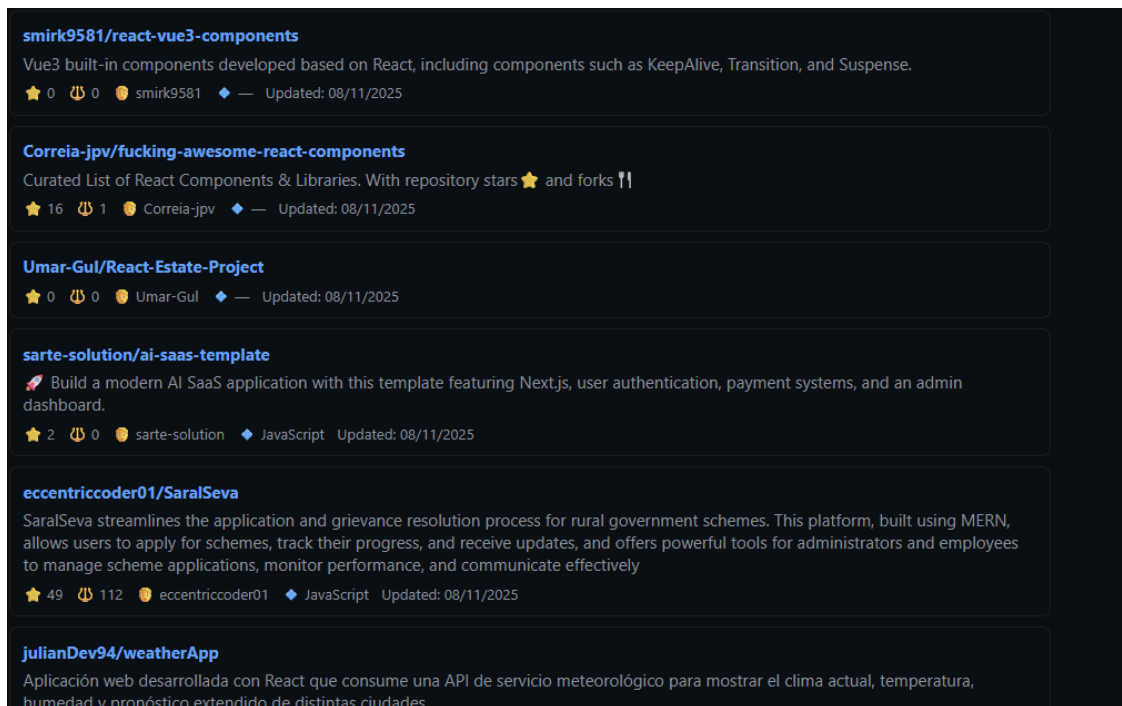
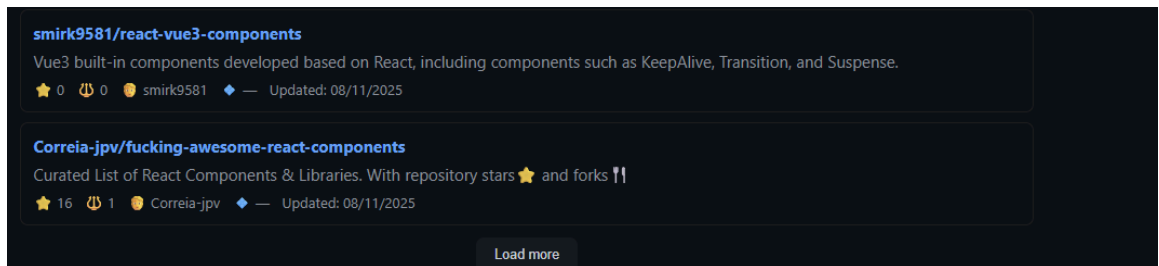
0 0 Mayankaggarwal8055 JavaScript Updated: 08/11/2025

Takao-Yamasaki/react-firebase-blog

0 0 Takao-Yamasaki CSS Updated: 08/11/2025

4. Load more / pagination

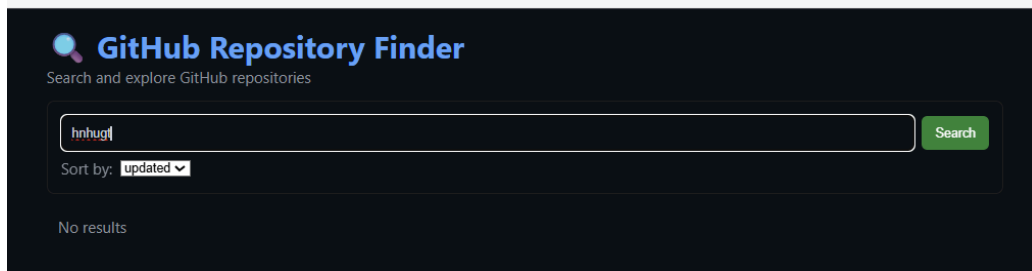
Clicked "Load more" loads the next page (page=2) and appends items to the list



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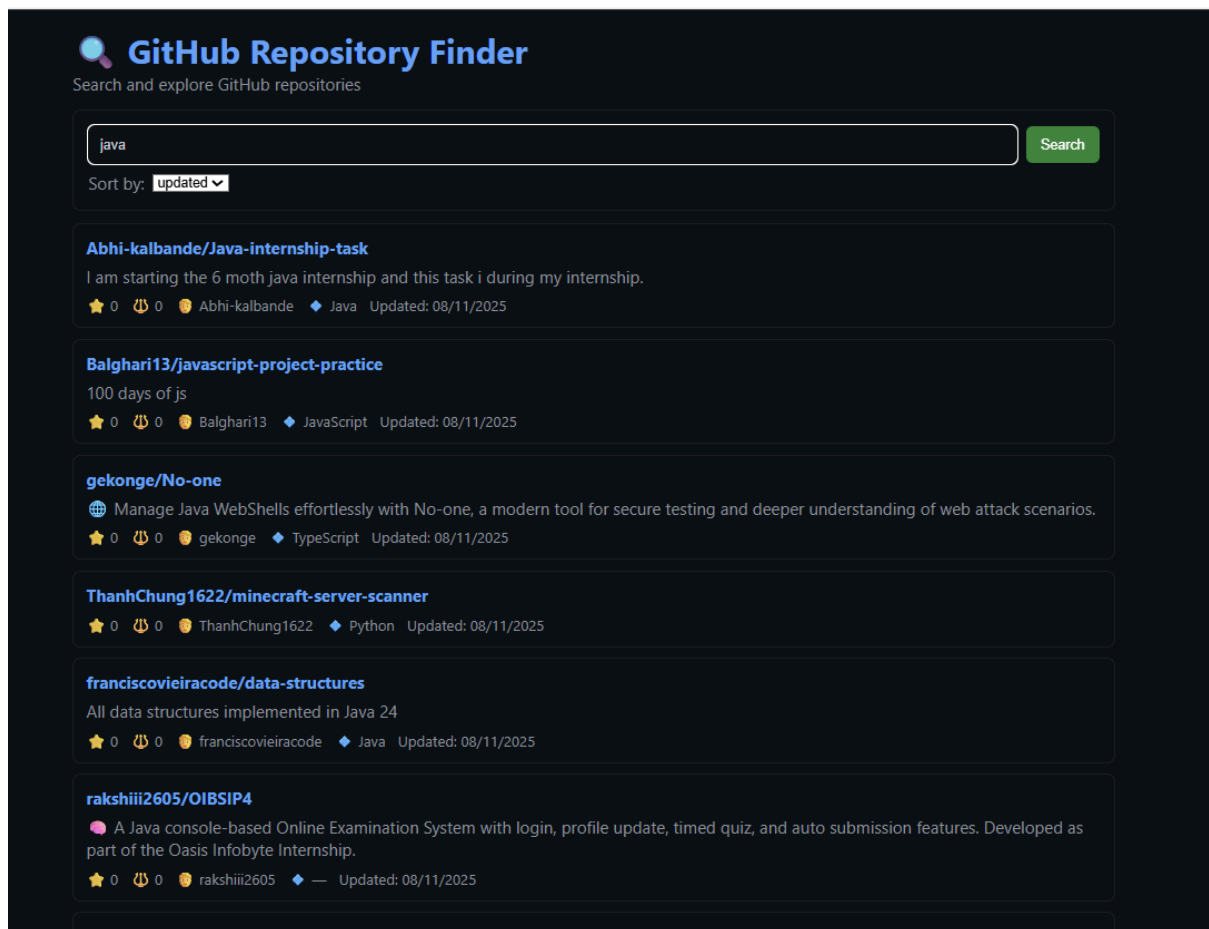
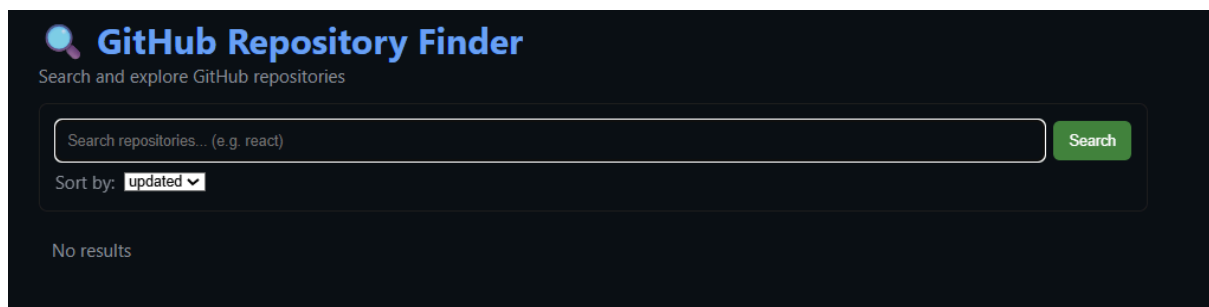
5. Error handling

App shows user-friendly error messages for no results

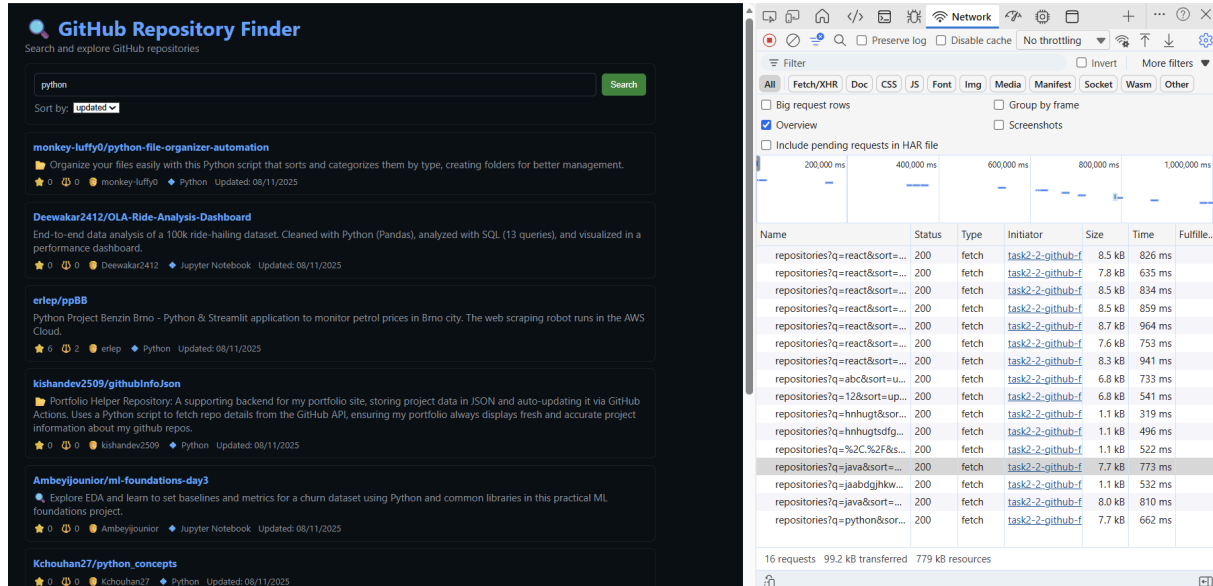


6. Clean UI

UI is clean and readable with dark theme and consistent card layout.



7. Extra evidence — API proof



Name	Status	Type	Initiator	Size	Time	Fulfil...
repositories?q=react&sort=...	200	fetch	task2-2-github-f	8.5 kB	826 ms	
repositories?q=react&sort=...	200	fetch	task2-2-github-f	7.8 kB	635 ms	
repositories?q=react&sort=...	200	fetch	task2-2-github-f	8.5 kB	834 ms	
repositories?q=react&sort=...	200	fetch	task2-2-github-f	8.5 kB	859 ms	
repositories?q=react&sort=...	200	fetch	task2-2-github-f	8.7 kB	964 ms	
repositories?q=react&sort=...	200	fetch	task2-2-github-f	7.6 kB	753 ms	
repositories?q=react&sort=...	200	fetch	task2-2-github-f	8.3 kB	941 ms	
repositories?q=abc&sort=u...	200	fetch	task2-2-github-f	6.8 kB	733 ms	
repositories?q=12&sort=up...	200	fetch	task2-2-github-f	6.8 kB	541 ms	
repositories?q=hnhugt&sor...	200	fetch	task2-2-github-f	1.1 kB	319 ms	
repositories?q=hnhugtsdfg...	200	fetch	task2-2-github-f	1.1 kB	496 ms	
repositories?q=%2C.%2F&s...	200	fetch	task2-2-github-f	1.1 kB	522 ms	
repositories?q=java&sort=...	200	fetch	task2-2-github-f	7.7 kB	773 ms	
repositories?q=jaabdgjhw...	200	fetch	task2-2-github-f	1.1 kB	532 ms	
repositories?q=java&sort=...	200	fetch	task2-2-github-f	8.0 kB	810 ms	
repositories?q=python&sor...	200	fetch	task2-2-github-f	7.7 kB	662 ms	