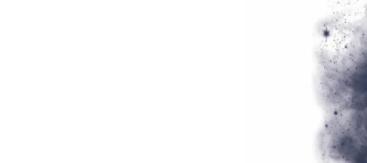# Inžinerinis projektas - Sistemų API technologijos

Dominykas Adomaitis IFB-8

Panaudoti API

- GeoDB Cities API

- Current Weather Data API

- Google Search API

Geo Cities API

ktu
1922

- Pagal duodamas koordinates gaunamas artimiausias miestas 20 km spinduliu su daugiau nei 2000 gyventojų.

- Naudojama užklausa: `https://wft-geo-db.p.rapidapi.com/v1/geo/locations/${`latitude`}+${`longitude`}/nearbyCities?radius=20&limit=2&minPopulation=2000&distanceUnit=KM`

- `radius – spindulys kuriuo ieškoma miestų`

- `limit – kiek miestų ieškoti`

- `minPopulation – minimalus gyventojų skaičius mieste`

- `distanceUnit – matavimo vienetai`

Gaunamas resursas

▼{data: Array(2), links: Array(3), metadata: {…}} ℹ
  ▼data: Array(2)
    ▼0:
        city: "Dainava"
        country: "Lithuania"
        countryCode: "LT"
        distance: 1.79
        id: 70391
        latitude: 54.92083333
        longitude: 23.97333333
        name: "Dainava"
        population: 70000
        region: "Kaunas County"
        regionCode: "KU"
        type: "ADM2"
        wikiDataId: "Q5209478"
      ▶ [[Prototype]]: Object
    ▶ 1: {id: 70678, wikiDataId: 'Q4115712', type: 'CITY', city: 'Kaunas', name: 'Kaunas', …}

Current Weather Data API

- Pagal duota miestą gaunama orų prognozė.

- https://api.openweathermap.org/data/2.5/weather?q=${inputVal}&appid=${apiKey}&units=metric

- q - miesto vardas

- appid – API raktas

- units – matavimo vienetai (standartiniai, metriniai ir imperiniai)

Gaunamas resursas

```
▼{coord: {…}, weather: Array(1), base: 'stations', main: {…}, visibility: 9000, …} ⓘ
  base: "stations"
  ▼clouds:
    all: 90
    ▶[[Prototype]]: Object
  cod: 200
  ▼coord:
    lat: 54.9225
    lon: 23.9726
    ▶[[Prototype]]: Object
  dt: 1638922941
  id: 598316
  ▼main:
    feels_like: -17.34
    humidity: 85
    pressure: 1020
    temp: -12
    temp_max: -12
    temp_min: -12
    ▶[[Prototype]]: Object
  name: "Dainava"
  ▼sys:
    country: "LT"
    id: 1880
    sunrise: 1638945297
    sunset: 1638971844
    type: 1
    ▶[[Prototype]]: Object
  timezone: 7200
  visibility: 9000
  ▼weather: Array(1)
    ▶0: {id: 804, main: 'Clouds', description: 'overcast clouds', icon: '04n'}
    length: 1
    ▶[[Prototype]]: Array(0)
  ▼wind:
    deg: 80
    speed: 2.57
```

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Google Search API

- Įvedus raktinį žodį gaunami pirmi trys paieškos rezultatai su nuorodomis juos

- `https://google-search3.p.rapidapi.com/api/v1/search/q=`<mark>`${keyWord}`</mark>

- q – paieškos frazė

Gaunamas resursas

Kaunas

```
▼Object ℹ
 ▶ answers: []
   device_region: "US"
   device_type: "desktop"
 ▶ image_results: []
 ▼ results: Array(10)
   ▼0:
     ▶ additional_links: (7) [{…}, {…}, {…}, {…}, {…}, {…}, {…}]
     ▶ cite: {domain: 'https://en.wikipedia.org › wiki › Kaunas', span: ' › wiki › Kaunas'}
       description: "Kaunas was the biggest city and the centre of a county in the Duchy of Trakai of the Grand Duchy of Lithuania and
       link: "https://en.wikipedia.org/wiki/Kaunas"
       title: "Kaunas - Wikipedia"
     ▶ [[Prototype]]: Object
   ▼1:
     ▶ additional_links: [{…}]
     ▶ cite: {domain: 'https://www.britannica.com › ... › Cities & Towns H-L', span: ' › ... › Cities & Towns H-L'}
       description: "Kaunas, town, southern Lithuania. It lies at the head of navigation on the Neman (Lithuanian Nemunas) River, ther
       link: "https://www.britannica.com/place/Kaunas"
       title: "Kaunas | Lithuania | Britannica"
     ▶ [[Prototype]]: Object
   ▼2:
     ▶ additional_links: [{…}]
     ▶ cite: {domain: 'https://wikitravel.org › Kaunas', span: ' › Kaunas'}
       description: "Kaunas is the second biggest city in the centre of Lithuania and referred to by many as the Pearl of the Baltic .
       link: "https://wikitravel.org/en/Kaunas"
       title: "Kaunas - Wikitravel"
     ▶ [[Prototype]]: Object
   ▶ 3: {title: 'Visit Kaunas - Visit Kaunas', link: 'https://visit.kaunas.lt/en/', description: 'Kaunas tourism information. Kaunasti
   ▶ 4: {title: 'Kaunas City in Lithuania | Attraction | Adventures.com', link: 'https://adventures.com/baltic-countries/attractions/c
   ▶ 5: {title: 'Visit Kaunas - the coolest city in Lithuania - Kami and the Rest ...', link: 'https://www.mywanderlust.pl/visit-kauna
   ▶ 6: {title: 'Kaunas, Lithuania: What to See, Where to Go and What to Know', link: 'http://www.truelithuania.com/topics/cities-of-l
   ▶ 7: {title: 'Kaunas | Lithuania Travel', link: 'https://www.lithuania.travel/en/news/kaunas-11', description: "From the city's uni
   ▶ 8: {title: 'Kaunas – Travel guide at Wikivoyage', link: 'https://en.wikivoyage.org/wiki/Kaunas', description: 'Kaunas is the seco
   ▶ 9: {title: '9 Cool, Hidden, and Unusual Things to Do in Kaunas, Lithuania', link: 'https://www.atlasobscura.com/things-to-do/kaur
```

Sistemos vaizdas