

Assignment FEA

Wikipedia Search Application Assignment

Overview

Create a Wikipedia search application using vanilla JavaScript that allows users to search for articles and view their content. The application should use the Wikipedia API to fetch data and provide a clean, responsive user interface.

Wikipedia Search

Ho Chi Minh

Search Results



Ho Chi Minh Communist Youth Union
The Ho Chi Minh Communist Youth Union (Vietnamese: Đoàn Thanh niên Cộng sản Hồ Chí Minh, Đoàn TNCS), simply recognized as the Union (Vietnamese: Đoàn)...



Ho Chi Minh City Television
Ho Chi Minh City Television is a Vietnamese television network owned by the People's Committee of Ho Chi Minh City...



HCMC Metro
The Ho Chi Minh City Metro (HCMC Metro, Vietnamese: Đường sắt đô thị Thành phố Hồ Chí Minh) is a rapid transit system in Ho Chi Minh City, the most po...



Ho Chi Minh Trail (Vietnamese: Đường mòn Hồ Chí Minh), also called Annamite Range Trail (Vietnam...



Tan Son Nhat International Airport (IATA: SGN, ICAO: VVTS) is an international airport serving Ho Chi Minh City...



BK TPHCM

Wikipedia Search

Search Wikipedia...

Wikipedia Search

Search

hochimin

Ho Chi Minh City Wings
The Ho Chi Minh City Wings are a Vietnamese professional basketball team based in Ho Chi Minh City...

Ho Chi Minh trail
The Ho Chi Minh Trail (Vietnamese: Đường mòn Hồ Chí Minh), also called Annamite Range Trail (Vietnam...

Tan Son Nhat International Airport
Tân Sơn Nhất International Airport (IATA: SGN, ICAO: VVTS) is an international airport serving Ho Chi Minh City...

Museum of Ho Chi Minh City

Museum of Ho Chi Minh City (Vietnamese: Bảo tàng Thành phố Hồ Chí Minh), formerly known as Saigon Palace (Văn phòng Chính phủ Saigon), is a historical site and museum in Ho Chi Minh City, Vietnam. The museum is situated in the corner of Lê Thị Riêng and Nam Kỳ Khởi Nghĩa streets, located in the center block near the Independence Palace.
History
Under French Indochina
Construction of the palace began in 1886 and completed in 1888, and was designed by French architect Alfred Falguiere to house the Museum of Commerce, trading products and goods of Southern Vietnam. However, the building soon became the residence of the Governor of Cochinchina, working with Henri Rivière (1890–1896).

Requirements

Core Features

1. Search Functionality

- Implement a search form with input validation
- Display search results in a grid layout
- Show article thumbnails when available
- Display article excerpts in search results
- Minimum 3 characters required for search
- Show the suggestion box show 3 search results (debounce 500ms)

2. Article Display

- Show full article content when clicked
- Display article images
- Implement a “Back to results” feature
- Maintain search results state when going back

3. User Interface

- Loading states during API calls
- Error handling and user feedback
- Responsive design for all screen sizes

Technical Requirements

1. API Integration

- Use the Wikipedia API endpoints provided
- Implement proper error handling for API calls
- Handle API rate limiting and network errors
- Properly format API requests with required parameters

2. Code Structure

- Use ES6+ features
- Implement class-based architecture (optional)
- Separate API logic from UI logic
- Use async/await for API calls
- Implement proper event handling

Evaluation Criteria

1. Code Quality (40%)

- Clean, readable code
- Proper error handling
- Efficient API usage
- Modern JavaScript practices

2. User Interface (30%)

- Responsive design
- Loading states
- Error messages
- Visual appeal

3. Functionality (30%)

- Search works correctly
- Article display works properly
- Navigation functions correctly
- Performance optimization

Wikipedia API Documentation

The Wikipedia API provides various endpoints to search articles and retrieve article content. This documentation covers the main endpoints and their usage.

Base URL

```
https://en.wikipedia.org/w/api.php
```

Common Parameters

These parameters are frequently used across different endpoints:

- `format=json` : Returns results in JSON format
- `origin=*` : Enables CORS support for browser requests
- `action=query` : Specifies that we're querying the Wikipedia API

1. Article Retrieval

Get Full Article

Retrieves a complete article with images and metadata.

Endpoint:

```
?action=query&titles={TITLE}&prop=extracts|pageimages|info&pithumbsize=400&inprop=url&redirects=&format=json&origin=*
```

Parameters:

- `titles` : The title of the article to retrieve
- `prop` : Properties to fetch
 - `extracts` : Gets article content
 - `pageimages` : Gets article images
 - `info` : Gets article metadata
- `pithumbsize` : Thumbnail size in pixels
- `inprop=url` : Includes the article URL
- `redirects` : Follows redirects if necessary

Example:

```
https://en.wikipedia.org/w/api.php?action=query&titles=JavaScript&prop=extracts|pageimages|info&pithumbsize=400&inprop=url&redirects=&format=json&origin=*
```

2. Search Functionality

Basic Search

Searches for articles with extracts and images.

Endpoint:

```
?action=query&generator=search&gsrsearch={QUERY}&gsrlimit=20&prop=pageimages|extracts&exintro&explaintext&exlimit=max&format=json&origin=*
```

Parameters:

- `generator=search` : Enables search functionality
- `gsrsearch` : The search query
- `gsrlimit` : Number of results to return (max 20)
- `prop` : Properties to fetch
 - `pageimages` : Gets thumbnail images
 - `extracts` : Gets article extracts
- `explaintext` : Returns plain text instead of HTML
- `exintro` : Only returns the introduction
- `exlimit=max` : Maximum length for extracts

Example:

```
https://en.wikipedia.org/w/api.php?action=query&generator=search&gsrlimit=20&prop=pageimages|extracts&exintro&explaintext&exlimit=max&format=json&origin=*&gsrsearch=javascript
```

3. Response Format

Article Response

```
{  
  "query": {  
    "pages": {  
      "pageId": {  
        "pageid": number,  
        "title": string,  
        "extract": string,  
        "thumbnail": {  
          "source": string,  
          "width": number,  
          "height": number  
        },  
        "fullurl": string  
      }  
    }  
  }  
}
```

Search Response

```
{  
  "query": {  
    "pages": {  
      "pageId": {  
        "pageid": number,  
        "title": string,  
        "extract": string,  
        "thumbnail": {  
          "source": string,  
          "width": number,  
          "height": number  
        }  
      }  
    }  
  }  
}
```

```
    }  
}  
}  
}  
}
```