
Google Clone

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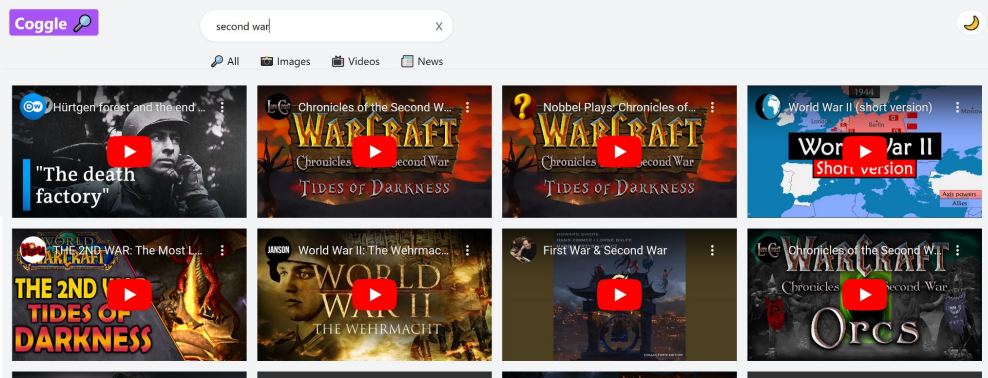
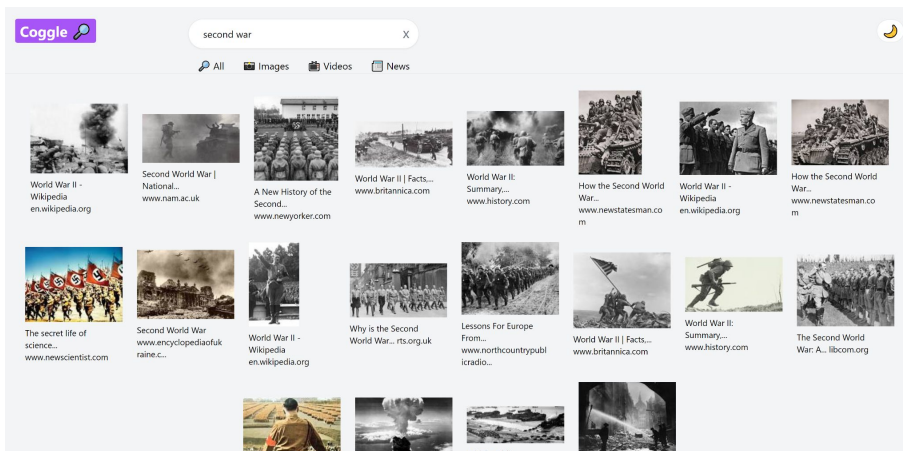
Background

Search website is very popular website.

Want to try to create all kinds of website (search website is one kind of them).

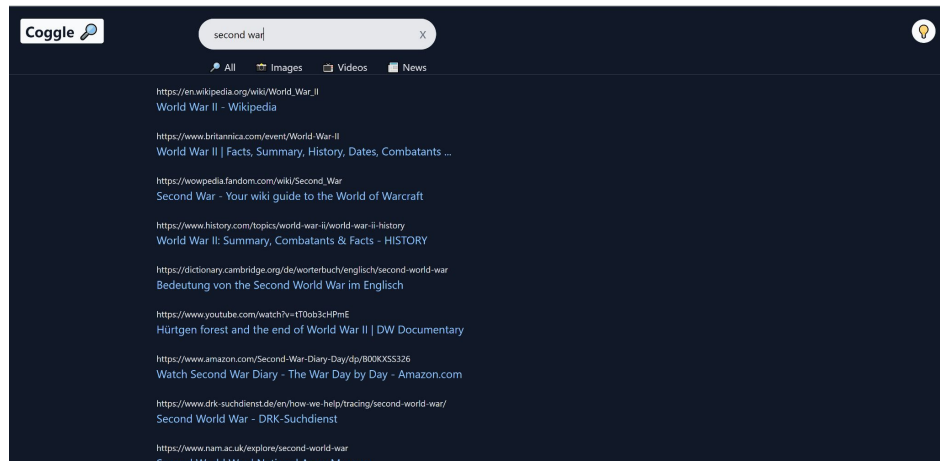
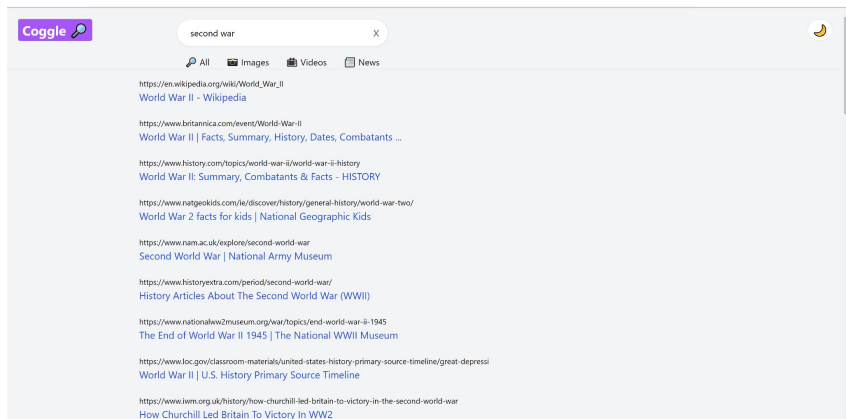
Try to use React and Google API clone Google page.

Search & Result Page
(All, image, video, news)



Solution Overview

Day & Night Theme



Technologies

Search Engine (Google API) : the information retrieval software program that discovers, crawls, transforms and stores information for retrieval and presentation in response to user queries.

Website(React.js, Node.js, Express, Tailwind)

What I learned

Use useState to change theme variable

```
const App = () => {  
  const [darkTheme, setDarkTheme] = useState(false);  
  return (  
    <div className={darkTheme ? 'dark' : ''}>  
      <div className="dark:bg-gray-900 bg-gray-100 dark:text-gray-200 black min-h-screen">  
        <Navbar setDarkTheme={setDarkTheme} darkTheme={darkTheme} />  
        <Paths/>  
        <Footer/>  
      </div>  
    )  
  )  
}
```

```
{links.map(({ url, text }) => (  
  <NavLink to={url} activeClassName="text-blue-700 border-b-2 dark:text-blue-300 border-blue-700 pb-2">{text}</NavLink>  
))}
```

What I learned

Use debounce value to control search interval

```
const [debouncedValue] = useDebounce(text, 1000);

useEffect(() => {
  if (debouncedValue) setSearchTerm(debouncedValue);
}, [debouncedValue]);
```

What I learned

How to call third-party API

```
const getResults = async (type) => {  
  setIsLoading(true);  
  console.log(`${baseUrl}${type}`);  
  const response = await fetch(`${baseUrl}${type}`, {  
    method: 'GET',  
    headers: {  
      'X-User-Agent': 'desktop',  
      'X-Proxy-Location': 'EU',  
      'X-RapidAPI-Host': 'google-search3.p.rapidapi.com',
```

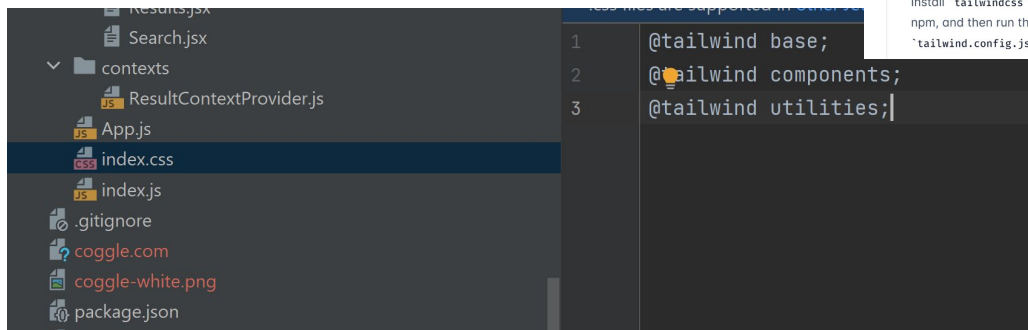

What I learned

Use component to combine page

```
11 const [debouncedValue] = useDebounce(text, 1000);
12
13 useEffect(() => {
14   if (debouncedValue) setSearchTerm(debouncedValue);
15 }, [debouncedValue]);
16
17 return (
18   <div className="relative sm:ml-48 md:ml-72 sm:-mt-10 mt-3">
19     <input
```

What I learned

Use Tailwind Framework to create style



Install Tailwind CSS with Create React App

Setting up Tailwind CSS in a Create React App project.

Note that for new React projects, we highly recommend using [Vite](#), [Next.js](#), [Remix](#), or [Parcel](#) instead of Create React App. They provide an equivalent or better developer experience but with more flexibility, giving you more control over how Tailwind and PostCSS are configured.

1 Create your project

Start by creating a new React project with [Create React App v5.0+](#) if you don't have one already set up.

Terminal

```
> npx create-react-app my-project
> cd my-project
```

2 Install Tailwind CSS

Install "tailwindcss" and its peer dependencies via npm, and then run the init command to generate both "tailwind.config.js" and "postcss.config.js".

Terminal

```
> npm install -D tailwindcss postcss autoprefixer
> npx tailwindcss init -p
```

Future Work

Research more core technologies about search engine.

Continue to enrich features of the website.

Summary

A simple search website use Google API.

Text, image , video , news search functions.

Switch between day/night theme.