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GITHUB USER SEARCH INTERFACE

Overview

GitHub User Search Interface is a modern, responsive web application that enables users to search for GitHub users, view their profiles, and explore their public repositories. Built with React and Tailwind CSS, it offers a clean user experience with both dark and light modes.

Objective

To develop a practical and visually appealing web app for exploring GitHub users and their repositories using the GitHub REST API.

Features:

GitHub Username Search: Users can search for any GitHub profile using their username.

User Profile Display: View user details like avatar, name, bio, location, followers, following, and repository count.

Top Repositories: Displays top 5 repositories based on star count, including description, languages, and last modified date.

Followers & Following Lists: Modal popups displaying avatars and profile links of all followers and following users.

Full Repository List: A sortable list of all public repositories in a modal.

Dark/Light Mode Toggle: Switch between dark and light themes.

Responsive Design: Fully functional across desktops, tablets, and mobile devices.

Technology Stack:

Frontend: React (Functional components, Hooks)

Styling: Tailwind CSS

Build Tool: Vite

API: GitHub REST API

File Structure:

GITHUB_USER_SERACH

```
index.html
package.json
postcss.config.js
tailwind.config.js
vite.config.js
src/
  App.jsx
  main.jsx
  index.css
  components/
    LandingPage.jsx
    SearchForm.jsx
    UserProfile.jsx
    RepoList.jsx
  public/
    Screenshot1.png
    Screenshot2.png
    Screenshot3.png
    Screenshot4.png
    Screenshot5.png
```

How It Works:

- 1. Landing Page:** Introduces the app and its purpose.
- 2. Search:** User inputs a GitHub username.
- 3. Fetch Profile:** App retrieves and displays profile data via GitHub API.
- 4. Display Repositories:** Top 5 repos are shown with modal to view all.
- 5. View Followers/Following:** Modal popups display follower and following lists.
- 6. Theme Toggle:** Users can switch between light and dark modes anytime.

Benefits & Use Cases:

Developers: Quickly analyze other developers' GitHub profiles.

Recruiters: Assess a candidate's contributions and popular repositories.

Open Source Enthusiasts: Discover interesting projects and developers.

Students/Educators: Learn about React, API usage, and modern UI practices.

Getting Started

1. Install dependencies:

```
npm install
```

2. Start development server:

```
npm run dev
```

3. Open in browser:

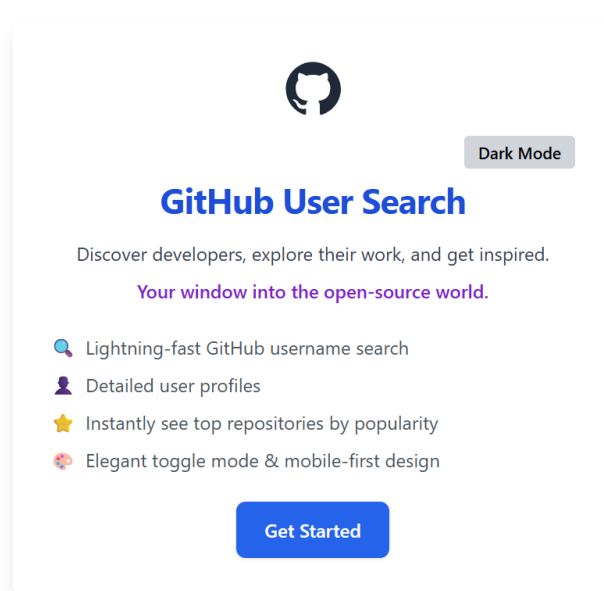
Visit `http://localhost:---`

Customization:

Styling: Easily modify UI via Tailwind classes.

API Token: Replace GitHub token in the source code for extended API limits.

INTERFACE:



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Conclusion

GitHub User Search Interface is a useful tool for exploring GitHub profiles and repositories. It demonstrates modern web development practices using React, Tailwind CSS, and RESTful APIs, offering both utility and a refined user experience.