Challenge #1 - TinyWiki

Introduction

Sometimes it is difficult to find information for something you want quickly. If you are someone who likes Wikipedia but dislikes manually searching for information you need then TinyWiki is for you! TinyWiki allows you to search for a topic you need some information about and searches for information on that topic in Wikipedia for you.

Task #1

Skills tested

- Basic Express knowledge
- Ability to read third party API documentation
- Third Party API integration

Create an Express API that has two routes

1. GET /search/:searchTerm
   Returns an array of wikipedia pages that match the keyword

Route Parameters

searchTerm	String	The keyword to use to search for a particular topic

2. GET /read/:slug
   Returns a JSON object containing html content for the page along with its title

Route Parameters

slug	String	The slug for the page the user wants information for

Task #2

Skills tested

- Basic Angular / React concepts
- Frontend routing
- API Integration using AJAX

Create an Angular or React single page application containing the following pages using the API created in Task #1

1. Landing Page / Search Page
   This page should contain a search bar in which the user can type in the keywords they want to search Wikipedia with. It should make an AJAX request to the API to fetch a list of pages that match the entered keyword. After which, it should display the results to the user.

2. Wiki Page

When a user clicks on a search result in the Search Page, this page should open containing the Wikipedia content of the selected search result. It should make an AJAX request to the API and display the HTML content of the page returned by it.

Task #3

Skills tested

- Basic MongoDB concepts
- MongoDB Integration in Express

Persist some analytical data in the backend of your application using MongoDB

Modify your existing express routes to store the searched keywords and visited pages in your local MongoDB database. You can store any other properties that you feel might be appropriate alongside them.

Create a new route that outputs a JSON array showing the most searched keywords in either ascending or descending order based on a route parameter "asc" or "desc".

Bonus

As a bonus task, you can use a charting library to display analytical data in your Angular / React application based on the information collected in your MongoDB database.

Modifications for Experienced Hire

The bonus task becomes mandatory with the following changes

- An authentication system for admin access must be implemented (only login required).
- The authentication should be based on JWTs.
- Only admins should have access to analytical data.
- A dashboard page should be created that shows charts and graphs based on the data stored in the MongoDB database.

Bonus

As a bonus task, you can implement Refresh Tokens in your JWT authentication system.

SHREYA SUMAN

sumanshreya000gmail.com   ✆ 9311572717   ⚲ New Delhi, India   ∞ https://www.linkedin.com/in/shreya-suman-8bb78a14a/

EDUCATION

☛ **Bachelors, Computer Science**   **SGT UNIVERSITY, Haryana**
   SGPA- 8.5| Excellence Student   **Aug 2020-May 2023**

☛ **Diploma, Electronics & Communication**   **Meera Bai Institute Of Technology**
   CGPA- 7.9   **Aug 2017 – May 2020**

PROJECTS

☛ **DailyExpense**
   Tech Stacks: React, CSS, JavaScript, RestAPI, MySQL, NodeJs
   A web Application that will allow user to Add their expenses with the information of Date and expense price.

☛ **Quiz App**
   Tech Stacks: HTML, CSS, JavaScript
   Web app for programming related quiz with the interactive UI

☛ **World Clock**
   Tech Stacks: HTML, CSS, JavaScript, BootStrap,
   It contains 3-4 projects related to clock including, stopwatch, Digital Clock, Analog clock

☛ **React Cryptocurrency App (Going on)**

EXPERIENCE

☛ **DRDO**
   Worked under the Scientist 'F' on the topic of 'HALL EFFECT' In the domain of Electronics. Researched on semiconductor Properties.

AWARD AND HONORS

☛ **Gold Medalist**: Inter-Faculty Chess tournament Held in University
☛ **HackerRank**: 4✶ Java

TECHNICAL SKILLS

☛ **Programming Language**: Java
☛ **Web Technologies**: HTML, CSS, JavaScript
☛ **Front-end frameworks:** React, Bootstrap
☛ **Backend:** Express, Node.js
☛ **Tools/Databases:** MySql, Git, Apache, RestApi
☛ **Data Structures:** Array, Binary Search, Linear Search, LinkedList**..... learning**

SOFT SKILLS AND LEADERSHIP

☛ **Critical thinking, creativity, and problem-solving:** As being a chess player
☛ **Management (people, time, and project):** Managed Hackathon in University
☛ **Teamwork and collaboration**

I have varied interests from App development to cybersecurity to ethical hacking to web development, I enjoyed integrating technologies to keep me updated and get the best results.