

Challenge-6: Weather Dashboard (Server-side APIs)

[README.md]

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** Title: Weather Dashboard (Challeng-6).
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** Submitted: 16 Jul 2024.

** Working procedures:
* Basically, I have reused the codes from '23-Ins_Review-Part-Two' in '06-SERVER-SIDE-APIS' module,
  and made needed adjustments to make it work and meet the Acceptance Criteria.
* Structure of the main screen: quickly draw a wireframe and updated the index.html file, accordingly.
  - <header> : implemented some 'Awsome Font', Sun and Bolt. It was AWESOME...^^.
  - <main>
    - <div> : Section for accepting 'City Name' from user.
    - <div> : Section for listing city names user entered, so far.
    - <div> : Section for displaying one day(today)'s weather information.
    - <div> : Section for displaying 5 day (starting the day after today) weather information.
* Style: I just reused the style.css file, and added a few things, as needed.
* Javascript: Implemented functions in 'weather.js' file.
  - formSubmitHandler() : Accept User Input.
  - displayCities() : Display the cities, user has entered, so far.
  - displayOneDayWeather() : Display 1 Day Weather Data for the entered city.
                           City Name, Date, Weather Icon, Temp, Wind and Humidity.
  - displayFiveDayWeathers() : Display 5 Day Forecast for the entered city after today
                           Date, Weather Icon, Temp, Wind and Humidity.

** Comments:
* Due to my travel to Korea and China, I just finished Challenge-6.
* I believe the purpose of this challenge is to familiarize oneself with the APIs available out there.
  How to fetch the needed data, display it on the screen, and interact with a user in front-end.
* I had to go through all the recorded lectures to understand the concepts, and heavily relied on
  the 'Exper Learning Assistant' everytime I got stuck.
* Now, I'm little bit more comfortable working on APIs and would like to work on it a little more.
  Learned a lot and expect more exciting challenges in the future...^^.
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Acceptance Criteria

...

GIVEN a weather dashboard with form inputs

WHEN I search for a city

THEN I am presented with current and future conditions for that city and that city is added to the search history

WHEN I view current weather conditions for that city

THEN I am presented with the city name, the date, an icon representation of weather conditions, the temperature, the humidity, and the wind speed

WHEN I view future weather conditions for that city

THEN I am presented with a 5-day forecast that displays the date, an icon representation of weather conditions, the temperature, the wind speed, and the humidity

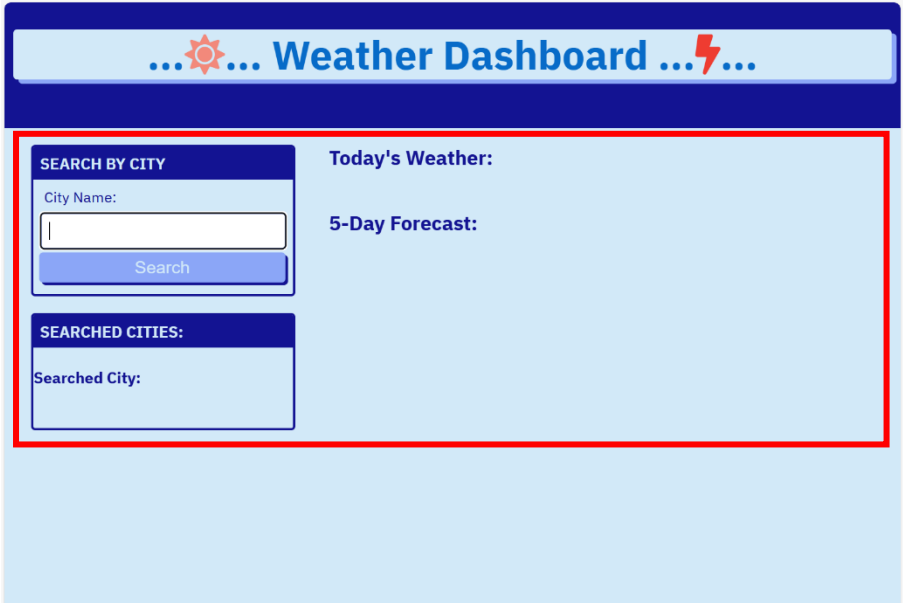
WHEN I click on a city in the search history

THEN I am again presented with current and future conditions for that city

[Results] with Acceptance Criteria (AC)

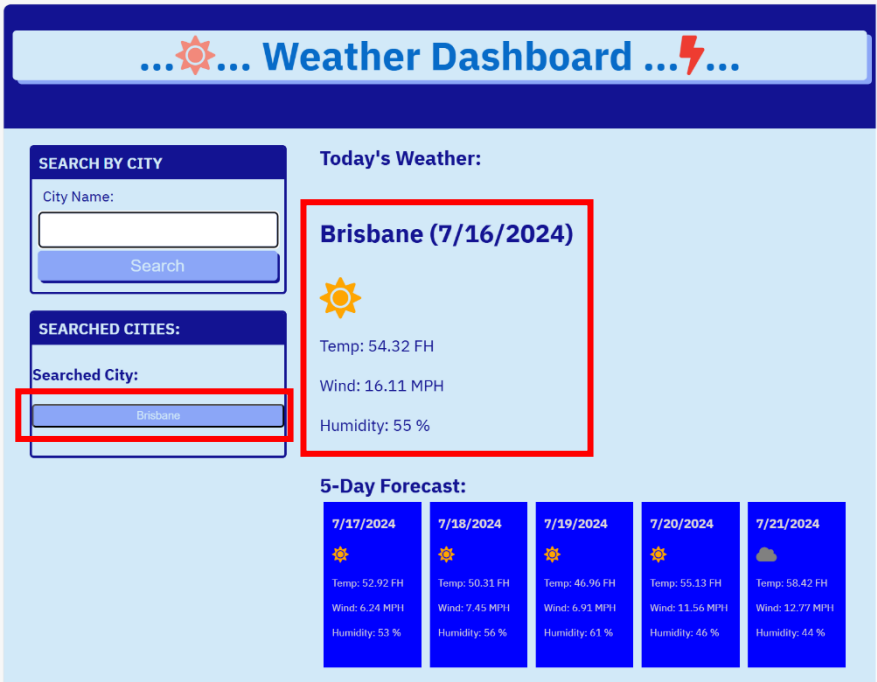
AC-1:

GIVEN a weather dashboard with form inputs
WHEN I search for a city
THEN I am presented with current and future conditions for that city and that city is added to the search history



AC-2:

WHEN I view current weather conditions for that city
THEN I am presented with the city name, the date, an icon representation of weather conditions, the temperature, the humidity, and the wind speed



AC-3:

WHEN I view future weather conditions for that city
THEN I am presented with a 5-day forecast that displays the date, an icon representation of weather conditions, the temperature, the wind speed, and the humidity

...☀... Weather Dashboard ...⚡...

SEARCH BY CITY

City Name:

Search

SEARCHED CITIES:

Searched City:

Brisbane

Seoul

London

Samoa

Rome

Christchurch

Tokyo

Beijing

Today's Weather:

Beijing (7/16/2024)

☁

Temp: 78.69 FH

Wind: 2.59 MPH

Humidity: 69 %

5-Day Forecast:

7/17/2024	7/18/2024	7/19/2024	7/20/2024	7/21/2024
☁	☁	☁	☁	☁
Temp: 79.05 FH	Temp: 78.15 FH	Temp: 76.28 FH	Temp: 81.32 FH	Temp: 92.16 FH
Wind: 2.37 MPH	Wind: 1.61 MPH	Wind: 3.47 MPH	Wind: 3.42 MPH	Wind: 4.56 MPH
Humidity: 72 %	Humidity: 81 %	Humidity: 82 %	Humidity: 57 %	Humidity: 36 %

AC-4:

WHEN I click on a city in the search history
THEN I am again presented with current and future conditions for that city

...☀... Weather Dashboard ...⚡...

SEARCH BY CITY

City Name:

Search

SEARCHED CITIES:

Searched City:

Brisbane

Seoul

London

Samoa

Rome

Christchurch

Tokyo

Beijing

Today's Weather:

Seoul (7/16/2024)

☁

Temp: 76.53 FH

Wind: 4.61 MPH

Humidity: 100 %

5-Day Forecast:

7/17/2024	7/18/2024	7/19/2024	7/20/2024	7/21/2024
☁	☁	☁	☁	☁
Temp: 75.74 FH	Temp: 74.86 FH	Temp: 74.75 FH	Temp: 75.02 FH	Temp: 77.59 FH
Wind: 3 MPH	Wind: 2.48 MPH	Wind: 6.42 MPH	Wind: 8.39 MPH	Wind: 8.25 MPH
Humidity: 98 %	Humidity: 98 %	Humidity: 96 %	Humidity: 95 %	Humidity: 89 %