

Project Java and Web Development

- Travel App

BY SIMONE MOIMA

[HTTPS://GITHUB.COM/SIMONE
MOIMA/DLBCSPJWD01-1](https://github.com/simone-moima/dlbcspjwd01-1)



Purpose

This application was designed to help users decide on a holiday destination based on either the current temperature or the monthly average temperature. The user will have to choose one or multiple continents they would consider visiting, as well as one or more of six temperature categories, spanning from freezing (below -1 C°) to very hot (above 33 C°). In case of the monthly average, a month needs to be chosen in addition.

The application will output a list of places, their country and continent, as well as the temperature in C°. The output will be display in descending order from hottest to coldest temperature.

This will help users narrow down on a suitable place to vacate, based on personal temperature preferences.

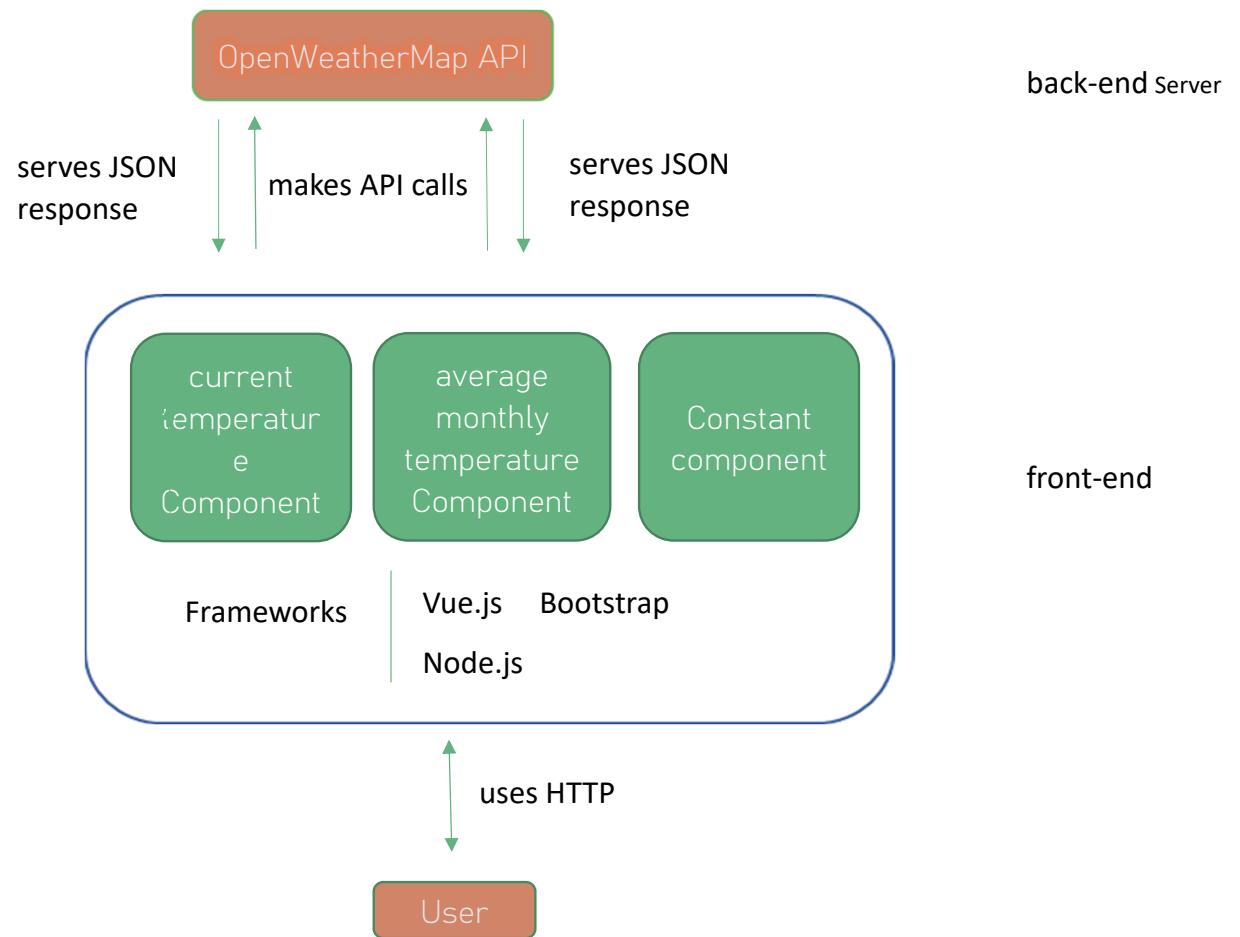
Architectural Diagram

Front-end technology:

- HTML5
- CSS
- Vue.js 5
- Bootstrap 5.2
- Bootstrap-Icons

Back-end technology:

- OpenWeatherMap API
- Node.js
- JavaScript



The Application

LANDINGPAGE

- The landingpage has a navigation-bar at the top that leads to the router views – landingpage, travel now and travel later
- There is a picture carousel to make the page visually pleasing
- Below is a short explanation of the functionality of the app and links to the router views
- A note gives information about a drawback of the application

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[home](#) [travel now](#) [travel later](#)

This app will help you find a destination based on your temperature preferences.

If you like to travel now, please go to [Travel now](#).

If you like to travel at a later time, please click [Travel later](#)

Note:

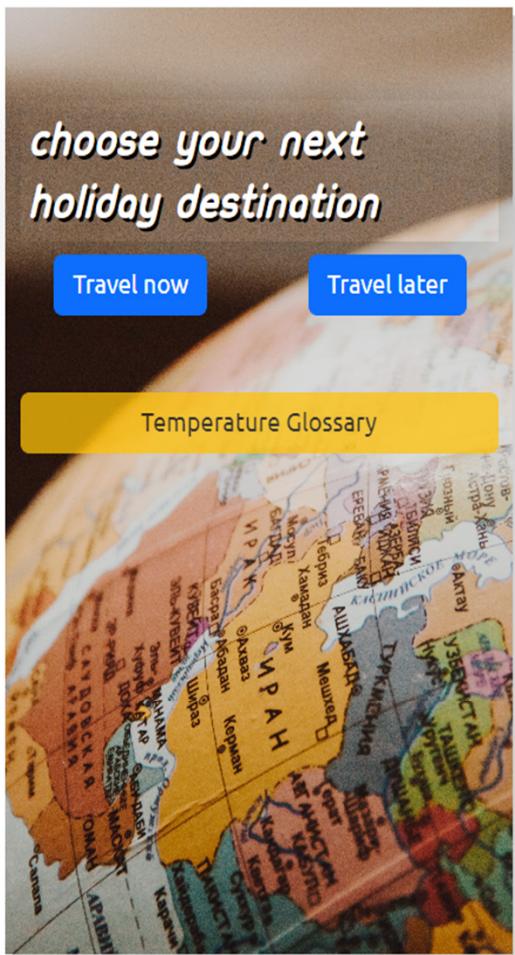
Please be aware that if you use [Travel now](#), the results will be based on the current temperature. This can affect the result based on the time of the day. In the evenings, temperatures usually fall and you will get a different result than during the day.

Travel now

CURRENT
TEMPERATURE VALUES

- This part displays as a result a list of the name of the place, their countries, the continent and the current temperature in Celsius
- On top is a navigation bar
- On the left is a sidebar with two buttons that link to one of the two main pages (travel now, travel later)
- In addition, the sidebar has an offcanvas button that, when clicked, displays a glossary with all the temperature intervals
- In the center is a checkbox-form, where one or multiple continents and one or more temperature intervals can be chosen and submitted with a submit button
- To the right is a display box that will display all the results
- A clear button will reset all choices and results

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Find your destination based on the current temperature

Choose your destinations:

Africa Asia Australia
 Europe North - America South - America

How do you like your Temperature?

Very Hot Hot Warm
 Cooler Cold Freezing

Results:	
Toliara, Madagascar (Africa)	29 C°
Kampala, Uganda (Africa)	26 C°
Athens, Greece (Europe)	9 C°
Portimao, Portugal (Europe)	8 C°
London, Great Britain (Europe)	6 C°
Casablanca, Morocco (Africa)	5 C°

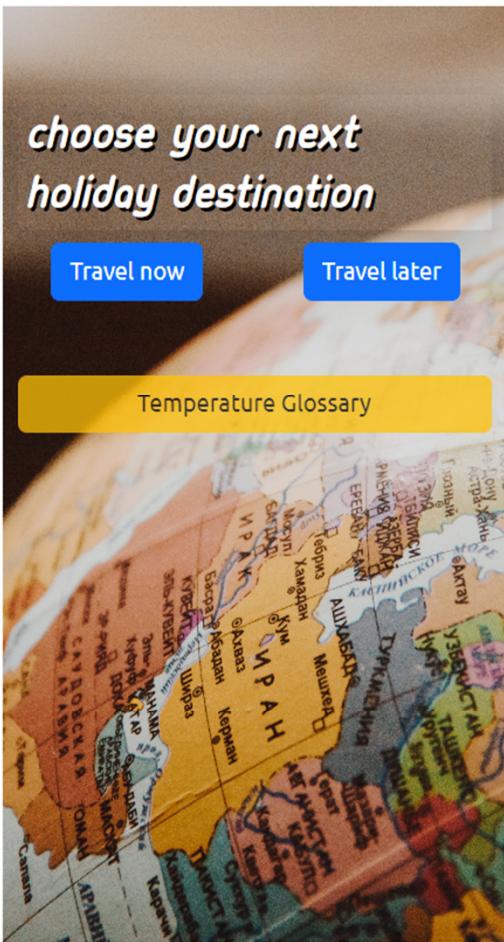
Travel later

MONTLY AVERAGE
TEMPERATURE

- This part displays as a result a list of the name of the place, the country, the continent and the average temperature of a chosen month in Celsius
- It has a navigation-bar and a sidebar exactly like the travel now page
- In the center is a select-bar where a month can be chosen, aswell as checkboxes to choose one or more continents and one or more temperature intervals, a submit button will submit the selection
- To the right is a display that will show the results
- A clear button will reset all choices and results

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Find the average monthly temperature

Select the month of travel:

June

Choose your destinations:

Africa Asia Australia
 Europe North - America South - America

Choose your temperature preferences:

Very Hot Hot Warm
 Cooler Cold Freezing

Submit

- June:**
- Dehli, India (Asia)
33 °C
- Bankok, Thailand (Asia)
30 °C
- Hong Kong, Hong Kong (Asia)
29 °C
- Cairo, Egypt (Africa)
28 °C
- Taipei, Taiwan (Asia)
28 °C
- Abuja, Nigeria (Africa)
25 °C

Clear

Changes to the original proposal

BEFORE

- Temperature intervals of 10 C° each

AFTER

- Temperature intervals based on how the temperature is perceived
- Continents are displayed
- A landingpage component was added

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