

CITYBYTES

Software Code Documentation



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INTRODUCTION:

Moving to a new location can be a daunting endeavor, especially when you have the entire United States to choose from. Finding a new home from scratch while prioritizing certain aspects might be very challenging given the variety of nations and cities. However, with the advancement of technology, information from earlier times can now be leveraged to offer a number of vital insights about a certain location. Our project succeeds in one of those objectives. We seek to present that information in our project because there are many other elements that are taken into consideration when choosing a place to reside, such as weather, temperature, entertainment options, landmark locations, education, and many more. The project is totally created using a variety of technologies, including some of the accessible APIs that are utilized to fetch real-time data.

Although this project is still in its early phases of development, it can be expanded up even further by including multiple features that can benefit society in a variety of different ways. This article offers a critical viewpoint that users can use to comprehend the project, adopt it as open source software, and add further features before releasing it to the market. The document also serves as a starting point for the project and helps developers understand the code.

The technologies listed below were used to build the entire project, and it is advised that the group of developers who take on this project in the future retain these tools on hand.

- Python3
- Django
- Pytest
- HTML
- CSS
- JavaScript
- BootStrap

Although we have used HTML, CSS and Bootstrap for the frontend logic the user can use any technologies and combine it with backend such as Angular, React etc.

CODE FUNCTIONALITIES:

The project basically uses Django for the backend logic. Django is a Python framework that is useful to build websites. It uses model view and templates architecture. Some of the files used in Django are as follows:-

- Views.py:- Backend logic is being written in this file. It takes http requests as arguments, imports relevant models and figures out what data needs to be sent to the template and returns the final result.
- Models.py:- Django has Object Relational Mapping which makes it easier to work with databases. The model provides data from the database.
- templates/:- They are used to store templates for frontend development and html files.
- Urls.py:- They are used to set the urls of the django project and apps. The endpoints created are stored in the urls files.
- Tests.py:- They are used to write the test cases for the code. They are used to check the code.
- Settings.py:- It has the basic information about the various api's used and initializes the environment required for the project.