

CITYBYTES

Software Code Documentation



Team Members:-

Nirav Shah	nshah28
Vishwa Gandhi	vgandhi
Pradyumna Khawas	ppkhawas
Vrushanki Patel	vpatel25
Priya Saroj	pbsaroj

INTRODUCTION:

Often moving to a new place seems an arduous task and even more if you have an entire United States to choose from. Given various countries and cities, finding a new home from scratch while prioritizing certain things can be very difficult. But since the technology has advanced, data from past years can be used to provide various useful insights about that particular place. Our project fulfills one of those aims. Since there are various different factors which come into play while selecting a place to live like weather conditions, temperature, entertainment spots, landmark spots, education and many more we aim to provide that information in our project. The project is built entirely using various different technologies and some of the available API's which are used to fetch the real time data.

This project is currently in its initial stages of development, but can be further scaled by adding numerous features which can be useful to the society in various different ways. This document provides a major perspective for the users to understand and take up the project as an open source software and add on multiple features before releasing to the market. Also, the document aids the developers in understanding the code and acts as a reference point for starting the project.

The entire project was built using the technologies mentioned below and it is recommended that the set of developers who take this project in future keeps these tools ready.

- 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.