**TECHNOLOGIES NEEDED IN THE BACKEND**

**FRAMEWORK**

For our project of parking slot optimization, when searching for a Python framework I came across Django and Flask. In my research of comparison with Django and Flask, I find Django is a more convenient option hence it has many built-in features like database interaction, authentication, templating, and URL routing while Flask needs more customization.

**DATABASE**

When coming to the case of database selection for the project there are so many relational database options. But considering the geospatial elements of the project PostgreSQL seems to be more suitable. Also, it is better based on scalability and performance.

**IMPLEMENTATION OF MAP**

To implement maps, we are planning to use Folium, which is a Python library that helps to create interactive maps. Also, it can be panned, zoomed, and scrolled. Moreover, users can interact by clicking on markers.