

## Project Summary

I learned about website design and how to create my own website that I can start up using my computer as a local server. I learned about html and css design and how to incorporate libraries such as bootstrap and chart.js into my website. I also learned how to connect mysql databases into a website and how to use the information from the database to populate the website. I also learned about API's and how to make post and get requests on my website with forms to be able to input information into the mysql database using POST requests and how to ask for certain information from the mysql database using GET requests. I also learned about using other API's such as wikipedia's api to be able to access their database to get images so I can add them to my own website.

I learned how to use django by following their documentation located here:

<https://www.djangoproject.com/start/>

I learned about bootstrap and how to use it in my website here:

<https://getbootstrap.com/docs/4.5/getting-started/introduction/>

I learned how to use chart.js here:

<https://www.chartjs.org/docs/latest/>

I learned about the wikipedia library here:

<https://pypi.org/project/wikipedia/>

Many of the challenges I encountered were in regards to my website and how to use POST and GET request and how the communication between the html page and the python code worked to be able to access and use the data. To solve this issue I looked up a couple youtube tutorials and how other people approached the problem. I also encountered problems when installing the software where I would get unexpected errors. To solve these problems, I looked up the errors online and either found solutions in stackoverflow or youtube.

If I had to create an application needing to access data in the future, I will continue to use django and python because python is a very simple and high level programming language when it comes to setting up the connection between the databases when compared to other languages like Java or C#. The python pip system makes it easy to install more libraries and python can accomplish a lot in a few lines of code that would take other languages multiple lines of code.