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**Search implementation**

After sorting and filtering the results, the user is directed to a table heading in order of closest relevance of the fields outputted by.

**NumPy** is a Python package which stands for 'Numerical Python'. It is the core library for scientific computing, which contains a powerful n-dimensional array object, provide tools for integrating C languages.

**Pandas** is mainly used for machine learning in form of data-frames. Pandas allow importing data of various file formats such as csv

**Werkzeug** is a utility library for WSGI. WSGI itself is a protocol or convention that ensures that your web application can speak with the webserver and more importantly that web applications work nicely together.

**Bokeh** is a powerful open source Python library that allows developers to generate JavaScript data visualizations for their **web applications** without writing any JavaScript. While learning a JavaScript-based data visualization library like d3.

**limitations**. For example I was unable to **use** the direct mapping of a data-frame to a ColumnDataSource for the two examples above, in such case Dash is more suitable.

**jQuery** is a library primarily **used** with client-side JavaScript code. It can vastly speed up the time needed to write UI code, providing shortcuts for many day-to-day actions. It also includes a flexible Ajax library that's useful in creating dynamic interfaces and is already browser cross-compatible. Most critical disadvantage is huge library to import also making learning JavaScript much more difficult.

**Html2Canvas** is a JavaScript library that provides the functionality to take a screenshot of the whole web page or a specific part. It technically doesn't take the screenshot but creates the view based on the available information on the page.

Limitations: if you have other canvas elements on the page, which have been tainted with cross-origin content, they will become dirty and no longer readable by html2canvas.

The script doesn't render plugin content such as Flash or Java applets.

Website design and its user friendly features such as all links for connecting pages for

Example inhibitor links and phosphosite links, I used flask framework for development of server-side code. It gives us a tremendous support for routing in web applications. Mostly wherever I have routes in our web app, we have used url\_for() and not directly the path as the path is more likely to change in future.

Example inhibitor links and phosphosite links, I used flask framework for development of server-side code.

Using css to make it look as such we used bootstrap library that is meant for styling of web apps.

Exporting the HTML content is tricky. I cannot directly export the HTML texts as you would lose the CSS styling. I converted the HTML page content to a canvas and then converted that canvas image to pdf. This was a bit challenging as I had to export HTML page and not some file from server.

For uploaded the inhibitor onto the website we had all the details about inhibitor in a csv and all the images were named with CNumber columns. The matched result’s details are shown up in tabular form and then the associated image is fetched with corresponding CNumber.

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Parsing files through our dataAccess.py code we have created dataframes from CSV files, with the help of Pandas. These data frames are simply processed by pandas, allowing us to use a built in method to search by colum.