# During Development

When developing I originally started with a Python code that you could simply add a server <http://127.0.0.1:5000/search?query=rugby> where I could search for a query locally. Python then processed the pdf and gave me a result that said processed pdfs. Then, I searched all the processed text for rugby. The results can then be displayed in the terminal. The results consist of 1000 characters after the searched query. This was however an issue as if rugby was mentioned again in those 1000 characters it would duplicate the word and add another 1000 characters after. I fixed this by adding an { If } statement to not duplicate the words.

The processing of the pdfs however took too long. I was using two plugins, one that converted the pdfs to an image and then a plugin that scanned the image for all the text. To fix this issue I used one plugin instead, which is designed for fast processing of pdfs.

After this, I wanted to make this easier to search by using HTML. Using HTML and JavaScript to get the processed results from Python. Then by adding a search bar in HTML I could search for a query and show the final results on an HTML page.

When developing I also noticed that the results for only 2 pdfs when searching for rugby was over 10,000 words. So I needed to shorten this. To do this I added another plugin that could use Artificial Intelligence to summarise the results from the searched query.