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| SCHOLARSHIP |
| Digital technology |
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Introduction

# 1. Problem

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Tool used:

PLOTLY DASH:

Python is the programming language, Plotly and Dash are open-source libraries. Plotly is a module for python that is open-source used for data-visualisation that supports various graphs and chart types like line charts, scatter plots, bar charts,…Plotly produces interactive graphs that can be embedded on websites.[[1]](#endnote-1) Dash is an opensource framework for building data visualization interfaces.

**There are 5 elements of a plotly dash code which is:**

* Library
* Dataset
* App layout
* Components
* Callback

Project approach:

Technical

Business

The principle is that cache, save and cache data source in local storage to improve performance and follow zero-trust rinciple risk broken link or data unavailable.

<https://youtu.be/uhxiXOTKzfs>

This video shows me the step-by-step guide to create a data visualisation dashboard using Panel/Hvplot package - source code for Python. The first step is to identify the issue then look for datasets online (Github, Tableau,...) then I will choose the tools, in this video she chooses Panel. The process includes: set up system, ideate dashboard, and code the dashboard using some source code from Panel package.

<https://youtu.be/hSPmj7mK6ng>

1. Majumder, P. (2023, September 25). *Guide to create interactive plots with plotly python*. Analytics Vidhya. https://www.analyticsvidhya.com/blog/2021/10/interactive-plots-in-python-with-plotly-a-complete-guide/#:~:text=Plotly%20is%20an%20open%2Dsource,variety%20of%20complex%20plotting%20options. [↑](#endnote-ref-1)