

Military Asset Expenditure Dashboard

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ABSTRACT

The overview of this project will show how to prepare the military assets expenditure dashboard from planning to testing. Spending on diversity of assets in the military can further strengthen a country's defence. Currently, the military assets management in some countries is not balanced with other important needs in the country. In spending the allocation for the purchase of military assets, a country needs to have clear guidelines. The main objective of this study is to provide visualisation of Military Assets Expenditure by countries. The following objectives are outlined to support the aim of the project are to identify data requirements that need to be used to visualise Military Assets Expenditure by countries, to design and develop a visualisation dashboard for Military Assets Expenditure, and to evaluate the proposed visualisation dashboard through User Acceptance Test. Research methodology that is used to achieve the Military's Assets Expenditure Dashboard consists of four phases which are Planning, Analysis, Development and Testing. To make the process of developing the dashboard run smoothly, restructured the raw dataset of Military's Asset Expenditure. The first thing that needs to be done before performing the data visualisation is to identify a suitable type to implement into the Military's Asset Expenditure dashboard. The user interface design on the Figma will be a guide to create the dashboard using Power Bi. The dashboard was created according to the data of the Military's Assets Expenditure. After that, the Military's Assets Expenditure dashboard is constructed. ETL is an important part of the implementation of the Military's Assets Expenditure Dashboard. The first step by creating the dashboard data visualisation is by extracting the data. The dashboard will load the data and transform it into graphical data using a visualisation tool. This phase requires a user testing activity to achieve the third objective, which is to evaluate the performance of the proposed dashboard interface based on the data analysis and visualisation results. There are 50 respondents including military officers who will perform UAT to test the Military's Assets Expenditure dashboard. The results show that the Military Asset Expenditure Dashboard is a decent dashboard with some refinement. Most respondents also agree that the dashboard is useful and verified the goal to identify the efficiency and effectiveness of Military Asset Expenditure Dashboard.

Keywords: Military, Military asset, Dashboard, Expenditure, Countries, Data visualisation, Power BI