

ABSTRACT

The availability of comprehensive information has become a fundamental necessity for current performance sustainability. In the context of the People's Representative Council of the Republic of Indonesia (DPR RI), technological innovation within the DPR RI encompasses the implementation of data visualization crucial in commission meetings to facilitate decision-making. However, the use of third-party applications like Tableau poses security risks due to external access to sensitive DPR data. As the DPR is responsible for shaping policies affecting society, data security is of utmost importance. In response, AVITA was initiated by researchers to meet the demand for cutting-edge data visualization supporting decision-making processes in the DPR RI. AVITA's primary goal, considering data security as the top priority, ensures that sensitive DPR data is not accessed by unauthorized parties with features like public dashboard access restriction based on time. AVITA is specifically designed to fulfill the DPR's data visualization needs, enabling DPR members to quickly and effectively grasp complex information relevant to their tasks. The importance of maintaining data confidentiality is prioritized in AVITA's development. By utilizing internally built dashboards, data integrity and confidentiality are guaranteed as external parties are not involved in the implementation process. To achieve this goal, the AVITA development process adopts agile software development methodology with the Scrum model. This method was chosen for its flexibility towards changing requirements and enables AVITA development involving team members. The AVITA development process involves the use of PHP programming language, Laravel framework, and MySQL database. Laravel was selected as the framework for its development ease and modern features accelerating the AVITA building process. Thus, this research aims to efficiently and adaptively design and build AVITA, accommodating dynamic needs while ensuring developer team involvement in the process.

Keywords: data visualization, agile, scrum, laravel.