

ABSTRACT

In today's digital era, the rapid advancement of information and communication technology has brought significant changes to various aspects of life, including the business sector. The internet has become a crucial element that supports both companies and small enterprises in expanding business opportunities. As of 2024, there are 5.30 billion internet users worldwide, with 53.6% of them located in Southeast Asia. In Indonesia, internet users reached 202.6 million in early 2021, accounting for 73.7% of the total population. However, this growth also brings challenges for business owners, particularly in managing Wi-Fi usage efficiently. The lack of connection time limits and bandwidth management can lead to a decline in service quality. Moreover, the absence of an effective monitoring system makes it difficult for owners to identify excessive usage and potentially harmful user activities. Therefore, a system is needed to restrict access, manage bandwidth distribution, and monitor usage through an easy-to-use User Interface (UI). The Frontend Programmer is responsible for designing the UI and integrating the Application Programming Interface (API) developed by the Backend Programmer. In the development of the Dashboard NetPro Connect, several technologies are utilized to ensure optimal functionality and appearance. The Angular framework is chosen to build a dynamic and responsive UI that supports real-time data updates. Axios is used as the HTTP client library for retrieving data from the API and handling periodic data updates. For data visualization, ApexCharts is implemented to display daily bandwidth usage, while the Tailwind CSS framework ensures a modern design.

Keywords: Wi-Fi, Internet, MikroTik, Bandwidth Management, Monitoring, Angular