ABSTRAK

ANALISIS KERENTANAN KEAMANAN DENGAN METODE OWASP *RISK RATING* PADA SISTEM INFORMASI PARKIR BERBASIS *ANDROID*

Meningkatnya jumlah kendaraan berakibat sulitnya mencari tempat parkir yang kosong diakibatkan tidak sebandingnya perkembangan jumlah lahan parkir dan infomasi tempat parkir. Untuk mencari tempat parkir, pengguna jasa parkir harus mengelilingi tempat parkir sampai menemukan tempat yang kosong. Sistem parkir seperti ini tidak efektif dan menghabiskan banyak waktu. Mengakibatkan pengguna jasa parkir lebih memilih parkir di bahu jalan yang menyalahi aturan dan menyebabkan kemacetan. Data survei INRIX memperlihatkan pada tahun 2017 parkir liar di jalan meningkat 100% selain itu,berdasarkan peneliti parkir menemukan 90% pengguna jasa parkir menginginkan informasi ketersediaan parkir secara *real-time*. Sehingga penelitian ini membahas pengembangan prototipe sistem informasi parkir berbasis perangkat bergerak yang mampu memberikan informasi ketersediaan parkir secara *real time*. Perkembangan perangkat bergerak khususnya *smartphone* berkembang pesat. *Smartphone* bersistem operasi *Android* sangat popular di Indonesia berdasarkan *market share* mencapai 79.87%. Kepopuleran *Android,* menyebabkan resiko ancaman dan kerentanan keamanan data. Mekanisme asesmen resiko aplikasi menggunakan metode OWASP *Risk Rating* dapat menentukan dampak dan faktor resiko dari kerentanan *password attack* dan *intercept network*.

Kata Kunci: Sistem informasi parkir, Android,OWASP, Asesmen Keamanan

ABSTRACT

ANALYSIS OF SECURITY VULNERABILITY USING OWASP RISK RATING METHOD ON ANDROID PARKING INFORMATION SYSTEM

The increasing number of vehicles resulted in the difficulty of finding an empty parking lot due to the inadequate development of the number of parking lots and parking information. To find a parking space, parking service users must surround the parking lot until they find an empty place. Parking systems like this are not effective and spend a lot of time. Resulting in parking service users prefer roadside parking that violates the rules and causes congestion. INRIX survey data shows that in 2017 illegal parking on the road has increased by 100% besides that, according to parking researchers, 90% of parking service users want real-time parking availability information. So, this research discusses the development of a mobile device-based parking information system prototype that can provide parking availability information in real-time. The development of mobile devices, especially smartphones, is growing rapidly. Android as operating systems smartphones are very popular in Indonesia based on a market share of 79.87%. The popularity of Android causes the risk of threats and data security vulnerabilities. The application risk assessment mechanism using the OWASP Risk Rating method can determine the impact and risk factors of the password attack and intercept network.

Keywords: Parking Information System, Android, OWASP, Security Assessment