# ABSTRAK

## PERANCANGAN SISTEM APLIKASI *MANAGEMENT BOKING SERVICE* SEPEDA DENGAN METODE AGILE BERBASIS *WEBSITE* (Studi Kasus : Bengkel Sepeda Richi *Bike*)

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Richi Bike merupakan toko dan sekaligus bengkel yang menyediakan produk *sparepart* sepeda, peralatan sepeda, *service* sepeda dan juga sebagai pusat *dealer* shimano khususnya di Bandar lampung. Akan tetapi selama ini richi bike belum mempunyai *e-commerce* sendiri dan Selama ini belum memiliki aplikasi *booking online* berbasis web. Sehingga pelanggan tidak mengetahui informasi terkait ada berapa antrian yang akan ada sebelum mendatangi richi bike.

Oleh karna itu peniulis melakukan pembangunan aplikasi *booking service* sepeda di richi bike berbasis website memberikan fitur-fitur yang dapat membantu customer dalam melakukan *booking service* sepeda dan membeli sparepart sepeda tanpa harus datang ke lokasi richi bike.

Aplikasi ini dibangun menggunakan metode *AGILE* mulai dari tahap *planning, implementation, testing, documentation, deployment, and maintenance*. Dari tahapan pengembangan sistem ini dibuatlah perancangan sistem aplikasi *management booking service* menggunakan UML (*Unified Modelling Language*) dengan jenis diagram *use case*, *class* diagram, dan *activity* diagram. Sedangkan untuk implementasi program menggunakan text editor Visual Studio Code menggunakan bahasa PHP serta MySQL sebagai database. Pengujian yang dilakukan menggunakan ISO 25010, diperoleh hasil bahwa pengujian dengan aspek Functional Suitability sebesar 100%, aspek Usability sebesar 97,7%. Dan hasil pengujian menggunakan GTMetrix mendapatkan skor keseluruhan website ini dengan nilai E. yang dapat disimpulan bahwa perangkat lunak dapat diterima dan telah memenui kualitas standar kelayakan perangkat lunak.

**Kata Kunci :** Richi Bike; Sistem Informasi; *Booking Online*; *AGILE*; ISO 25010

# ABSTRACT
### *Booking Service Management Application System Design Bicycles with Website-Based AGILE Methods*
### *(Case Study : Richi Bike Workshop)*
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Richi Bike is a shop and workshop that provides bicycle spare parts, bicycle equipment, bicycle service and is also a Shimano dealer center, especially in Bandar Lampung. However, so far Richi Bike does not have its own e-commerce and so far it does not have a web-based online booking application. So customers don't know information regarding how many queues there will be before coming to Richi Bike.

For this reason, the author developed a website-based bicycle service booking application at Richi Bike that provides features that can help customers book bicycle services and buy bicycle spare parts without having to come to the Richi Bike location.

This application was built using the AGILE method starting from the planning, implementation, testing, documentation, deployment, and maintenance stages. From this system development stage, a booking service management application system was designed using UML (Unified Modeling Language) with the types of use case diagrams, class diagrams and activity diagrams. Meanwhile, to implement the program using the Visual Studio Code text editor using PHP language and MySQL as the database. Tests carried out using ISO 25010, obtained results that the test with the Functional Suitability aspect was 100%, the Usability aspect was 97.7%. And the test results using GTMetrix get an overall score for this website with an E. It can be concluded that the software is acceptable and has met the quality standards for software suitability.

**Keyword :** Richi Bike; Sistem Informasi; *Booking Online*; *AGILE*; ISO 25010