

ABSTRACT

SiBengkel is an application that was built to make it easier for Vespa motorbike users to order online motorcycle service queues at the nearest workshop to the application user so that there is no buildup in one workshop and purchase of Vespa parts and motorcycle accessories online so that motorcycle users no longer need to make purchases at the store. The Workshop provides solutions to vehicle services that line up and makes it easier for the workshop to manage soaring service lines.

Judging from the existing problems, SiBengkel will provide applications to provide these solutions. Therefore, the authors develop a website-based application that can facilitate motorcycle users in purchasing spare parts and accessories as well as booking services.

This application utilizes Laravel 7.5 as a programming framework and MySQL database and uses the Extreme Programming method as its development method. This method is considered the most appropriate for the development of this application because the Extreme Programming method is an efficient, fast, easy to deal with changes, and suitable for small teams.

Testing on this system uses the black box method, which is a method of testing software without seeing lines of code or internal programs. This test is carried out to determine the success of the system in handling requests and data processing requested by the SiBengkel application. From the test results, the system that has been designed and implemented has met the needs of data processing in the SiBengkel application with 96.9% success in the login and registration module, 93.77% success in the booking module, 96.9% success in the product purchase module, and 93.8% in the mitra module.

Keywords: SiBengkel, Extreme Programming, Vespa, online booking.