

## ABSTRACT

Consuming halal food is one of the commands that must be obeyed by every Muslim. The availability of food that is guaranteed to be halal is a very urgent need that needs to be fulfilled for Muslims. However, from the *results* of a *survey* conducted on around 66 Muslim respondents with a majority age range of 21-25 years it was found that 53% of respondents doubted the food they had eaten was halal based on the composition of the ingredients and the use of tools. The *survey* also showed that 77.3% of respondents doubted the halal food from micro, small, and medium *business restaurants*. This problem can be overcome with technology that helps provide information about halal *restaurants* around in the form of applications developed based on responsive websites that can be displayed well on desktop and mobile *devices*. The author is responsible for developing the back end of the application for *content* catalog module by applying the *Design Thinking* and SDLC *Iterative Incremental methods*. The application of *Iterative* and *Incremental* in the *process* of developing information *systems* is very much in line with *Design Thinking* which iterates back to its phases and can enable developers to ensure the best solution for any existing problems. From the conducted *User Acceptance Testing* in an *iterative* manner, continuously improving functionality *incrementally*, the first *iteration* of the *system* was able to meet 86.96% of *user* expectations, while the second *iteration* achieved 80% of *user* expectations. Finally, in the third *iteration*, the *system* successfully met 100% of *user* expectations based on the tested *test cases*. Subsequently, the *load testing results* revealed that the application performed well and remained stable with less than 1500 concurrent *requests* on the server.

Keywords: ***Halal Food, Design Thinking, Iterative Incremental Development, Backend, Responsive Website.***