

## ABSTRACT

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*The stall has the market structure who tends to be monopolistic. This because so many number of sellers and the product has been sold is similar but varied. The stall is one of a kind of small industry or family business because the number of workers is about 1-5 people are members of their own families. The method proposed for working on web-based application of smartwarung on purchasing module is to use SDLC waterfall and the framework that will be used is CodeIgniter, PHP, CSS, and HTML as a interface display also the programming language that will be used. Furthermore, MySQL as a database storage, and the program testing will be done by the Black Box Testing method to ensure that the program's functionality can run properly.*

**Keywords:** *SDLC Waterfall, CodeIgniter, Black Box Testing*