

## **ABSTRACT**

*Indonesia has a distinctive culinary diversity that makes the culinary industry in Indonesia could developed in each region. There are several factors that make the culinary industry in Indonesia decrease, one of the causes is errors in the selection of business locations. This Final Task aims to design a SPK that can be considered by culinary industry owners choosing a branch of their culinary business location.*

*The design of this system uses fuzzy calculation methods AHP and TOPSIS. The AHP fuzzy method is used to weigh criteria, and the TOPSIS method is used to perform alternate battles. The system is website-based developed with a waterfall model. System testing is conducted with black box testing and user acceptance tests to test the functionality of the designed system.*

*The result of this study is a system that can provide the best sequence of locations based on existing criteria. Criteria and alternatives can be determined by the user according to the needs because the system is dynamic. The test results of the system show that the functions of the system are running well, and the system is as expected by stakeholders.*

*The conclusion of this study is design of the Decision Support System to determine the location of the culinary industry. The system can display the best locations of several alternatives. Subsequent system development may focus on adding some features.*

**Keyword — Culinary Industry, Decision Support System, Fuzzy AHP, TOPSIS**