IMPLEMENTATION OF HAVERSINE FORMULA TO DETERMINE THE DISTANCE BETWEEN CAFE LOCATION AND USER LOCATION TO FIND THE NEARBY CAFE BASED ON USER LOCATION WEB-BASED

UNDERGRADUATE THESIS

Submitted as one of the requirements to obtain

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By

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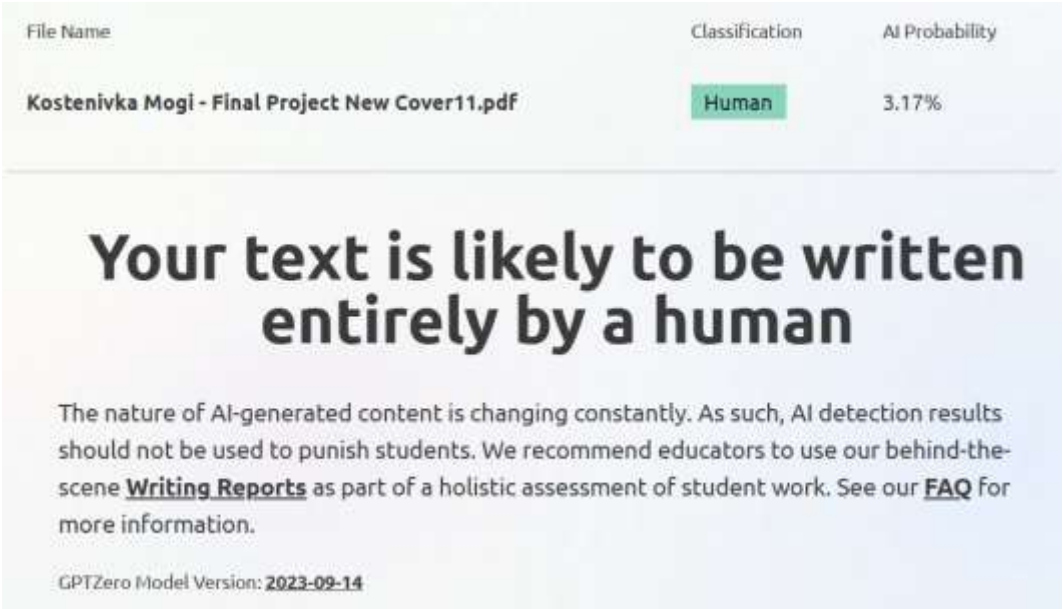

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ABSTRACT

Technological developments are increasingly rapidly affecting the lifestyle of today's society. Especially in the field of food and beverages. Nowadays, apart from being a place to eat and drink, cafes also provide entertainment for the convenience of customers, and of course cafes are used as a place to do conversation, do work, and relax. Currently, there are many cafés that have been established. This makes many people confused in terms of choosing a café to visit. The problem is that the user wants to know the location of the café including the distance to the café. Sometimes, a new user wants to know the information about the cafe. This application aims to make café recommendations based on the shortest distance using the haversine formula to calculate the distance between the user's location and the café's location. The results of this study indicate that this application is successful in terms of helping users to find out the shortest café around them, and this application can help users to get information about the details of the cafe they want.

Keywords—Café Recommendation, Haversine Formula, Latitude, Longitude

DEDICATION

This thesis is dedicated to my parents, my entire family, my friends, and the person closest who has always supported me.

I would also like to dedicate this thesis to President University, as a place where I gain knowledge, skills, friends and develop myself.

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