**DEVELOPMENT OF A DICTIONARY-BASED WRITING ASSISTANT FOR TOXIC LANGUAGE PREVENTION IN ONLINE COMMUNICATION SYSTEM**

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**A PROJECT SUBMITTED TO THE DEPARTMENT OF COMPUTER SCIENCE, FALCULTY OF SCIENCE, ADEKUNLE AJASIN UNIVERSITY AKUNGBA AKOKO, ONDO STATE, NIGERIA**

**IN PARTIAL FUFILLMENT OF THE REQUIREMENT FOR THE AWARD OF BACHELOR OF SCIENCE [B.Sc. (HONS)] IN COMPUTER SCIENCE**

**CERTIFICATION**

I hereby certify this project work was solely written and compiled by Alonge Daniel Oluwasegun with Matric Number: 170404063, submitted to the Department of Computer Science, Falculty of Science, Adekunle Ajasin University, Akungba Akoko, Ondo State, Nigeria, in partial fulfillment of the requirements for the award of Bachelor of Science (B.Sc.) in Computer Science under my supervision.

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Dr. O. Oriola Date

(Head of Department)

**DEDICATION**

This project is dedicated to God Almighty for his faithfulness, To my late Dad Elder Alonge Festus and to every one confused youth struggling to figure out life I pray God almighty will give you direction in Jesus Name.

**ACKNOWLEDGEMENT**

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**ABSTRACT**

There is a need for a writing assistant tool that checks for the presence of toxic words in online communication and prevents them from being sent. The growth of online communication has created various problems such as privacy, lack of job security, overruling cultures, and toxic words. Toxicity in online communication can be manifested in different ways, including hate speech, cyberbullying, trolling, xenophobia, racism, and sexism. The author aims to develop a writing assistant tool called Toxic Checker that will prevent the use of toxic language in online forums.

The objectives are to develop a dictionary of toxic words and phrases and synonyms, develop an agent to sense toxic content once keyed, and implement the agent in an online forum. The research methodology will use the waterfall development model, which involves several stages, including requirements gathering, design, implementation, testing, and maintenance.

This study developed a writing assistant tool that can assist in reducing toxicity in online communication. The tool was designed using a dictionary-based approach and prevent the successful entry of words when a user inputs a toxic word or phrase. The study found that software agents can be useful in developing writing assistant tools and that further research is needed to develop more sophisticated tools that can detect and suggest alternative phrases for toxic language.

*Keywords: Toxicity, Communication, Writing Assistant*