**KADUNA POLYTECHNIC**

# E-COMMERCE WITH PRODUCT EXPIRATION SYSTEM

**BY**

**JAMES AMADE OKPOCHA**
**(CST20HND0879)**

**THIS PROJECT IS SUBMITTED TO THE DEPARTMENT OF COMPUTER SCIENCE KADUNA POLYTECHNIC IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF HIGHER NATIONAL DIPLOMA IN COMPUTER SCIENCE**

**DEPARTMENT OF COMPUTER SCIENCE**
**SCHOOL OF APPLIED SCIENCE**
**COLLEGE OF SCIENCE AND TECHNOLOGY**
**KADUNA POLYTECHNIC,**
**KADUNA, NIGERIA**

**JULY, 2023**

## DECLARATION

I, JAMES AMADE OKPOCHA with the registration number **CST20HND0879** here by declared that this research work was conducted by me under the supervision of **MRS.ZUBAIR MOMOH WALI** of the Department of computer science, College of Science and Technology, Kaduna Polytechnic. I have neither copied someone's nor has someone done it for me and all references contained here has been duly acknowledge.

| Student Signature | Phone Number | Date |
| --- | --- | --- |
| _____ | _____ | _____ |

## APPROVAL

This is to certify that this is an original work done by James Amade Okpocha with registration number CST20HND0879 and has been strictly prepared in accordance with the regulations governing the preparation and presentation of projects in Kaduna Polytechnic.

_____

Mrs. Zubair Momoh Wali

**(Project Supervisor)**

_____

Mrs. Hafsat Morah

**(Head of Department Name)**

_____

External Examiner

## DEDICATION

This research work is especially dedicated to God Almighty for seeing me through this project work and to my lovely Dad MR. JONATHAN AMINU OKPOCHA for his support.

## ACKNOWLEDGEMENT

My profound gratitude goes to my amiable supervisors Mrs. Zubair Momoh Wali for her constant contribution and also for giving me the golden opportunity in enhancing my hidden capabilities, may God almighty continue to shower his grace and mercy upon them. My appreciation also goes to the head of department of computer science in person of Mrs. Hafsat Mora, lecturers and non-academic staff of the department of Computer science for the impact on me both morally and academically, may God almighty reward them abundantly.

My sincere appreciation goes to my dad Mr. Jonathan Aminu Okpocha for his massive and un-tired support both financially, emotionally and morally throughout the course of my studies. I pray may you not labour in vain and may you eat the fruit of your labour.

To my lovely siblings Ojochogwu, Blessing, Daniel, Adejoh, Vitoria, and Jonayhan I appreciate your support and prayers, thanks for being the best siblings ever I appreciate all your efforts love you.

Finally, to my coursemate and friends James, Tairu, Jonathan, Amarachi, Ruth, and Tayo thank you for all the support and to Mr Godwin Steven u are actually a God send i really appreciate you all for everything you all have done for me. Thank you and I love you all.

## TABLE OF CONTENTS

## LIST OF FIGURES

## LIST OF TABLES

**TABLE** **PAGE**

## ABSTRACT

*The web-based Product Expiration System is designed to address the challenges posed by expired products, which can lead to health hazards for consumers and significant losses for businesses. The system aims to provide an easy-to-use interface for managing inventory details, including purchase information, manufacturer details, and product expiration dates. Specifically developed for Chuks Supermarket, the system will allow for the record-keeping of product batches, detection of about-to-expire and expired products, and calculation of losses on expired items. The significance of this study lies in streamlining stock management and minimizing losses for businesses while ensuring consumer safety, the developed system is expected to enhance inventory control and decision-making for CHUCKS Supermarket, enabling efficient stock management with just a few clicks.*