**KADUNA POLYTECHNIC**

**A MOBILE DIARY APPLICATION**

**BY**

**OLADOSU MICHAEL OLUSEGUN**

**(CST20HND0053)**

**DEPARTMENT OF COMPUTER SCIENCE**

**SCHOOL OF APPLIED SCIENCE**

**COLLEGE OF SCIENCE AND TECHNOLOGY**

**KADUNA, NIGERIA**

**FEBRUARY, 2023**

**KADUNA POLYTECHNIC**

**A MOBILE DIARY APPLICATION**

**BY**

**OLADOSU MICHAEL OLUSEGUN**

**(CST20HND0053)**

**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 COMUPTER SCIENCE**

**DEPARTMENT OF COMPUTER SCIENCE**

**SCHOOL OF APPLIED SCIENCE**

**COLLEGE OF SCIENCE AND TECHNOLOGY**

**KADUNA - NIGERIA**

**FEBRUARY, 2023**

**DECLARATION**

I hereby declare that the project has been conducted solely by me under the guidance of Mr. Jibril Jabir Abdulkadir, department of **COMPUTER SCIENCE,** Kaduna Polytechnic, Kaduna and I have neither copied someone’s work nor has someone else done it for me. Authors whose works have been referred to in this project have been acknowledged.

Student Signature Phone Number Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_

**APPROVAL**

This is to certify that this is an original work undertake by Oladosu Michael Olusegun CST20HND0053 and has been prepared in accordance with the regulations governing the preparation and presentation of projects in Kaduna Polytechnic.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mr. Jibril Jabir Abdulkadir

(Project Supervisor)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mrs. Hafsat Morah

(Head of Department Name)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

External Examiner

**ACKNOWLEDGEMENT**

I am appreciative of and grateful to God Almighty for making me the person I am today, thank you for my intuition, my life, my peace, and everything else. I would like to thank my friends and family for their support, patience, and encouragement in this project, especially the continued motivation to keep me working hard. Also, I wish to express my sincere gratitude to my supervisor, Mr. Jibril Jabir Abdulkadir for his enthusiasm, patience, insightful comments, helpful information, practical advice, and unceasing ideas that have helped me tremendously at all times in my research and writing of this thesis, His immense knowledge has enabled me to complete this research successfully. Without his support and guidance, this project would not have been possible. I could not have imagined having a better supervisor in my study

Lastly, I would like to acknowledge my friends, who have always been there for me through thick and thin. Your friendship and support have enriched my life and made it a more enjoyable and memorable experience.

Thank you all for your unwavering support and for being a part of my life. I am truly grateful.

**TABLE OF CONTENTS**

Cover Page - - - - - - - - - - i

Title Page - - - - - - - - - - ii

Declaration - - - - - - - - - - iii

Approval Page - - - - - - - - - iv

Acknowledgement - - - - - - - - - v

Table of Contents - - - - - - - - - vi

List of Figure - - - - - - - - - - ix

List of Tables - - - - - - - - - - x

List of Abbreviations - - - - - - - -

Abstract - - - - - - - - - - xi

**CHAPTER ONE: INTRODUCTION**

1.1 Background of the Study - - - - - - - 1

1.2 Statement of the Problem - - - - - - - 2

1.3 Aims and Objectives of the Study - - - - - - 2

1.4 Scope of the Study - - - - - - - - 2

1.5 Limitation of the Study - - - - - - - 2

1.6 Significance of the Study - - - - - - - 3

1.7 Project Organization - - - - - - - - 3

1.8 Definition of Terms - - - - - - - - 4

**CHAPTER TWO: LITERATURE REVIEW**

2.1 Introduction - - - - - - - - - 5

2.2. Literature Review - - - - - - - - 5

2.3 Summary of Literature Review - - - - - - 7

2.4 Research Gap & Conclusion - - - - - - - 10

**CHAPTER THREE: METHODOLOGY AND DESIGN**

3.1 Introduction - - - - - - - - - 11

3.2 Method of Data Collection - - - - - - - 11

3.2.1 Observation of the Work Environment - - - - - 11

3.2.2 Documentation - - - - - - - - 11

3.3 System Modeling - - - - - - - - 12

3.3.1 Use Case Diagram - - - - - - - - 12

3.3.2 Class Diagram - - - - - - - - 13

3.3.3 Activity Diagram - - - - - - - - 14

3.4 Database Design - - - - - - - - 16

3.5 Output Design - - - - - - - - 17

3.6 Input and User Interface Design - - - - - - 17

3.7 System Requirement - - - - - - - - 19

3.7.1 The Hardware Requirement - - - - - - - 19

3.7.2 Software Requirement - - - - - - - 19

3.8 Choice of Programming Language - - - - - - 20

References - - - - - - - - - - 21

**LIST OF FIGURES**

**FIGURE PAGE**

3.1 System Use Case Diagram - - - - - - 12

3.2 System Class Diagram - - - - - - 13

3.3 Login Activity Diagram - - - - - - 14

3.4 Taking Diary Notes Activity Diagram - - - - 15

3.5 User Login Screen - - - - - - - 18

3.6 Create Note Screen - - - - - - - 18

3.7 Search Note Screen - - - - - - - 19

**LIST OF TABLES**

**TABLE PAGE**

3.1 Account Table Input Specification Table - - - - - 16

3.2 Note Table Input Specification Table - - - - - 16

3.3 Account Output Design Table - - - - - - 17

3.4 Note Output Design Table - - - - - - 17

**ABSTRACT**

*Personal diaries have traditionally been kept using physical methods of paper and pen throughout human history. These diaries are used to store memories and as an organizational tool to plan out daily life among many other activities. A mobile diary is an automated diary with enables one as a tool to write diaries (periodical events) without writing those stuff on paper. Its strength includes time organization, effort minimization and memories remembrance. This report outlines how a simple mobile diary application can be created to allow users to fulfil many of their diary wishes on their smart devices. The goal of this project is to develop a mobile diary system that will allow people to keep track of their daily lives and other confidential information. It can also be used for other purposes. It will be completely based on mobile application technology. Flutter wave is used for the front end, Django Rest Framework for the API and Python for its backend design. This method allows it to be platform independent, and it has the advantage of having a structured design*