

**DESIGN AND IMPLEMENTATION OF A VIRTUAL LIBRARY  
LEARNING PLATFORM (VLLP) FOR 300 LEVEL STUDENTS IN  
FACULTY OF MANAGEMENT SCIENCES, IN UNIVERSITY OF JOS.**

**BY**

**JOSHUA NWAFOR CHUKWUDI  
UJ/2016/ED/0248**

**A RESEARCH PROJECT SUBMITTED TO THE DEPARTMENT OF  
SOCIAL SCIENCE EDUCATION, FACULTY OF EDUCATION, THE  
UNIVERSITY OF JOS IN PARTIAL FULFILMENT OF THE  
REQUIREMENTS FOR THE AWARD OF BACHELOR OF LIBRARY  
AND INFORMATION SCIENCE (BLIS) DEGREE**

**FEBRUARY, 2022**

## **CERTIFICATION**

This is to certify that this research project titled "DESIGN AND IMPLEMENTATION OF A VIRTUAL LIBRARY LEARNING PLATFORM (VLLP) FOR 300 LEVEL STUDENTS IN FACULTY OF MANAGEMENT SCIENCES, IN UNIVERSITY OF JOS" has been read and approved having met the requirements for the award of Bachelor of Library and Information Science (BLIS) Degree in the Department of Social Science Education, Faculty of Education, University of Jos, Plateau State, Nigeria.

---

**MR. ENEOJO E. JACOB**  
SUPERVISOR

---

**DATE**

---

**DR. DAUDA A. ARIYA**  
HEAD OF DEPARTMENT

---

**DATE**

---

**PROF. JOSEPH M. MUSA**  
DEAN OF EDUCATION

---

**DATE**

---

**EXTERNAL EXAMINER**

---

**DATE**

## **DECLARATION**

**I, JOSHUA NWAFOR CHUKWUDI** hereby declare that this research project titled DESIGN AND IMPLEMENTATION OF A VIRTUAL LIBRARY LEARNING PLATFORM (VLLP) FOR 300 LEVEL STUDENTS IN FACULTY OF MANAGEMENT SCIENCES, IN UNIVERSITY OF JOS is a product of my own research efforts undertaken under the supervision of MR. ENEOJO E. JACOB has not been presented anywhere for the award of any qualification. All sources of information (published or unpublished) have been duly acknowledged.

**JOSHUA NWAFOR CHUKWUDI**  
UJ/2016/ED/0248  
UNIVERSITY OF JOS  
PLATEAU STATE

---

**SIGNATURE/DATE**

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## **DEDICATION**

I dedicate this research work to God Almighty who is all knowing and faithful, for His unwavering love, guidance and support throughout my studies and research. And to my wonderful Mother, Mrs. Ebere Nwafor for her relentless efforts in seeing me throughout my studies and particularly in this material time.

## TABLE OF CONTENTS

Title page	-	-	-	-	-	-	-	-	-	-	I
Certification	-	-	-	-	-	-	-	-	-	-	ii
Declaration	-	-	-	-	-	-	-	-	-	-	iii
Acknowledgement	-	-	-	-	-	-	-	-	-	-	iv
Dedication	-	-	-	-	-	-	-	-	-	-	v
Table of Contents	-	-	-	-	-	-	-	-	-	-	vi
List of Figures	-	-	-	-	-	-	-	-	-	-	ix
List of Appendices	-	-	-	-	-	-	-	-	-	-	x
Abstract	-	-	-	-	-	-	-	-	-	-	xi

## CHAPTER ONE INTRODUCTION

1.1 Background of the Study	-	-	-	-	-	-	-	-	-	1
1.2 Statement of the Problem	-	-	-	-	-	-	-	-	-	6
1.3 Objectives of Study	-	-	-	-	-	-	-	-	-	6
1.4 Methodology	-	-	-	-	-	-	-	-	-	7
1.5 Significance of the Study	-	-	-	-	-	-	-	-	-	8
1.6 Scope/Delimitations of the Study	-	-	-	-	-	-	-	-	-	8
1.7 Operational Definition of Terms	-	-	-	-	-	-	-	-	-	9

## CHAPTER TWO REVIEW OF RELEVANT LITERATURE

2.0 Introduction	-	-	-	-	-	-	-	-	-	10
2.1 Review of Existing System	-	-	-	-	-	-	-	-	-	10
2.2 Design of Virtual Library Learning Platform (VLLP) for learners and instructors for Faculty of Management Sciences	-	-	-	-	-	-	-	-	-	11

2.3 Design and implementation of a Login Module for learners and instructors to access the functions of the Virtual Library Learning Platform (VLLP) -	-	13
2.4 Design of Course Management and Accessibility Module on the platform for learners and instructors -	--	14
2.5 Identification of the effectiveness and efficiency of the platform in granting the learners access to personalized data such as, courses enrolled in and related resources, information resources (e.g Articles, PDFs and Webpage links), and chat functionalities with other users of the system -	-	15
2.6 Identification of the effectiveness and efficiency of the platform in granting the lecturers/instructors access to virtual course and information resource management functionality and online interaction with learners -	-	15
2.7.1 Summary -	-	16
2.7.2 Existing gap to be filled -	-	16

### **CHAPTER THREE**

#### **DESIGN OF A VIRTUAL LIBRARY LEARNING PLATFORM FOR 300 LEVEL MANAGEMENT SCIENCE STUDENTS OF UNIVERSITY OF JOS**

3.0 Introduction -	-	17
3.1 Structure of The Proposed System -	-	17
3.2 Hardware Design Model -	-	22
3.3 GUI (Mobile Application) Design Model -	-	23
3.3.1 Mobile Application Components Description -	-	27
3.4 Operation of the Proposed System -	-	29
3.5 Advantages of The Proposed Platform --	-	34
3.6 Programming Language -	-	34
3.7 Language Justification -	-	43
3.8 Conclusion -	-	35

## **CHAPTER FOUR**

### **IMPLEMENTATION AND EVALUATION/TESTING**

4.0 Introduction	-	-	-	-	-	-	-	-	-	36
4.1 Implementation of the Proposed System	-	-	-	-	-	-	-	-	-	36
4.1.1 Hardware Component	-	-	-	-	-	-	-	-	-	37
4.1.2 Software Component	-	-	-	-	-	-	-	-	-	38
4.2 Hardware Requirements	-	-	-	-	-	-	-	-	-	41
4.3 Software Requirements	-	-	-	-	-	-	-	-	-	41
4.4 Other Requirements	-	-	-	-	-	-	-	-	-	41
4.5 System Testing	-	-	-	-	-	-	-	-	-	41
4.5.1 Installation Testing	-	-	-	-	-	-	-	-	-	42
4.5.2 Functionality Testing	-	-	-	-	-	-	-	-	-	42
4.5.2 Usability Testing	-	-	-	-	-	-	-	-	-	42
4.6 Conclusion	-	-	-	-	-	-	-	-	-	42

## **CHAPTER FIVE**

### **SUMMARY, CONCLUSION AND RECOMMENDATIONS**

5.0 Summary	-	-	-	-	-	-	-	-	-	45
5.1 Conclusion	-	-	-	-	-	-	-	-	-	46
5.2 Recommendations	-	-	-	-	-	-	-	-	-	46
References	-	-	-	-	-	-	-	-	-	47
Appendices	-	-	-	-	-	-	-	-	-	51



## LIST OF FIGURES

Figure 3.1. System Architecture -	-	-	-	-	-	-	-	17
Figure 3.2 Authentication and Home Screens	-	-	-	-	-	-	-	18
Figure 3.3 Interaction between User and Application Hardware	-	-	-	-	-	-	-	19
Figure 3.4 System Data flowchart	-	-	-	-	-	-	-	21
Figure 3.5 Hardware Design Model	-	-	-	-	-	-	-	23
Figure 3.6 Mobile Application Screens	-	-	-	-	-	-	-	23
Figure 3.7 Entity Relationship Diagram	-	-	-	-	-	-	-	26
Figure 3.8 Entity Relationship Diagram	-	-	-	-	-	-	-	28
Figure 3.9 User interaction with system	-	-	-	-	-	-	-	29
Figure 3.10 Student Authentication Flow	-	-	-	-	-	-	-	30
Figure 3.11 Instructor Authentication Flow	-	-	-	-	-	-	-	31
Figure 3.12 User interaction with mobile application	-	-	-	-	-	-	-	32
Figure 3.13 Authenticated user flowchart	-	-	-	-	-	-	-	33
Figure 4.1 User interaction with Virtual Library Learning Platform	-	-	-	-	-	-	-	35
Figure 4.2 Instructor/Admin Dashboard	-	-	-	-	-	-	-	37
Figure 4.3 Instructor/Admin Course Management Screen	-	-	-	-	-	-	-	38
Figure 4.4 Student Authentication and Account Management Screens	-	-	-	-	-	-	-	39
Figure 4.5 Other relevant screens on Student Mobile Application	-	-	-	-	-	-	-	40

## LIST OF APPENDICES

Appendix I: Software Source Code	-	-	-	-	-	-	-	56
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## **ABSTRACT**

The aim of this project was to design and implement a virtual-library-learning platform for 300 Level Students of Faculty of Management Sciences, University of Jos with a goal to meet up to the following objectives; The Design of Virtual Library Learning Platform (VLLP) for learners and instructors for Faculty of Management Sciences, Design and implementation of a Login Module for learners and instructors to access the functions of the Virtual Library Learning Platform (VLLP) which includes, course creation and management, course enrollment and access to course resources, and information resource upload and browsing, Design of Course Management and Accessibility Module on the platform for learners and instructors, Identification of the effectiveness and efficiency of the platform in granting the learners access to personalized data such as, courses enrolled in and related resources, information resources (e.g Articles, PDFs and Webpage links), and chat functionalities with other users of the system, and The identification of the effectiveness and efficiency of the platform in granting the lecturers/instructors access to virtual course and information resource management functionality and online interaction with learners. The Micro-services architecture was employed in the implementation of the platform which is made up of 3 modules which includes the Back-end Module and Front-end modules for both instructors and learners. The back-end modules handles all business logic and provides an easy to use API which is used by other parts of the platform to access and publish data. The JavaScript Language was used as the Primary Language for this project. The developed platform makes it possible for instructors and learners to effectively communicate and share information through customized applications (Mobile and Web Application) improving on the current traditional method of teaching employed. The development of the VLLP revealed the method of teaching currently employed by students and instructors of the Faculty of Management Sciences and its disadvantages. As a result of this work, mobile and web applications was developed for both instructors and students to provide access to the functionalities made available by the VLLP. The VLLP makes it possible for instructors and students to communicate effectively and in an organized manner. Instructors of the Faculty of Management Sciences should be advised to upload course resources on the Platform. 300 Level Students of Faculty of Management Sciences in University of Jos should download the VLLP mobile application to access uploaded course resources. Further improvements and developments should be made on the Virtual Library Learning Platform to make it more useful and relevant to the University of Jos.