

NMKRV College for Women



Project Report on

“Terrian Beads(E-commerce website)”

Submitted in partial fulfillment of the Requirements of the 6th Semester in

BACHELORS OF COMPUTER APPLICATIONS

By

NAME:THANUSHREE.M

USN:U03PE22S0143

Under the Guidance of

Mrs.Haritha

Asst. Professor

Dept. of Computer Applications

NMKRV College for Women



NMKRV College For Women

**45/1,22nd Cross, Jayanagar, III Block
Bengaluru-560011**

NMKRV College for Women



Project Report on

“PROJECT TITLE”

**Submitted in partial fulfillment of the Requirements of the 6th Semester in
BACHELORS OF COMPUTER APPLICATIONS**

By

“NAME”

“USN”

Under the Guidance of



NMKRV College For Women

**45/1,22nd Cross, Jayanagar, III Block
Bengaluru-560011**

2024-25 Even Semester

NMKRV College For Women

**45/1,22nd Cross, Jayanagar, III Block
Bengaluru-560011**



Department of Bachelors of Computer Applications

PROJECT CERTIFICATE

This is to Certify that **Ms. THANUSHREE.M** bearing USN:U03PE22S0143, student of 6th semester BCA has satisfactorily completed the **Project work** – entitled “**BCA** ” in the academic year **2024-2025** as prescribed by Bangalore University for VI Semester of Bachelors of Computer Applications.

Internal Guide

Mrs. HARITHA

Project Guide
Assit. Professor
Dept. of Computer Application
NMKRV College For Women

External Guide

Head of the Department

Mrs. DEEPA LAKSHMI

Head of the Dept
Dept. of Computer Application
NMKRV College For Wome

Principal

DECLARATION

I, **THANUSHREE.M** (USN:U03PE22S0143) student of 6th Semester, Department of BCA, NMKRV College For Women, Bengaluru-11, declare that the project entitled **“Terrian Beads(E-commerce website)”** is a record of the original work done by me under the guidance and supervision of **“Mrs HARITHA ”**, Assistant Professor, Department of BCA, **NMKRV college for women** and this project work has not formed the basis of any Degree/Diploma/Fellowship or similar title to any candidate of any university.

Name: THANUSHREE M
USN:U03PE22S0143

Thanushree M
Signature of the candidate

ACKNOWLEDGEMENT

I would like to place on record my gratitude to all those people who have helped me in making this Project work a reality. Our Institution has played a prominent role in guiding in the right direction.

I would like to thank our beloved Principal, “ Dr Snehalatha Nadiger ”, for providing the necessary facilities to carry out this work.

I am extremely grateful to”**Prof. Deepa Lakshmi** ”, Professor and Head, Department of BCA for having accepted to patronize me in the right direction with all his wisdom.

I would like to express my sincere thanks to our project guide, “**Prof. Haritha**“, Assistant Professor, for his constant encouragement that motivated me for the successful completion of this work.

I am thankful to all the teaching and non-teaching staff members of the BCA Department for their encouragement and support throughout this work.

THANUSHRE.M

(U03PE22S0143)

ABSTRACT

TITLE - Terrian Beads(E-commerce website)

With the rise of e-commerce, having an online presence is essential for businesses to thrive. This project, **Terrain Beads** – A Jewellery Brand Website, is a fully functional e-commerce platform designed to provide a seamless shopping experience. Built with **HTML**, **CSS**, and **JavaScript**, the website offers an interactive user interface, while **Flask** manages backend operations, ensuring smooth functionality. **SQL** is used for secure data storage and efficient order management.

The platform supports browsing products, adding items to the cart, user authentication, secure checkout, and payment processing, creating a complete e-commerce experience. Its responsive design ensure accessibility across devices, enhancing user engagement.

In real-time, **Terrain Beads** helps jewellery businesses establish a strong digital presence, streamline order management, and improve customer interaction. This project showcases the integration of full-stack web development in e-commerce, offering a valuable learning experience.

NAME : Thanushree M
Reg no : U03PE22S0143

TABLE OF CONTENTS

Page No.

DECLARATION	i
ACKNOWLEDGEMENT	ii
ABSTRACT	iii
TABLE OF CONTENTS	iv
LIST OF FIGURES	vi
LIST OF TABLES	vii

1. INTRODUCTION	1
1.1. HTML	1
1.2. CSS	2
1.3. JAVASCRIPT	2
1.4. DJANGO	
1.5. BOOTSTRAP	
1.6. SQLLITE	
2. LITERATURE SURVEY	5
2.1. AIM OF THE PROJECT	5
2.2. PURPOSE OF THE PROJECT	6
2.3. BENEFITS OF THE PROJECT	7
2.4. ABOUT THE PROJECT	8
3. SOFTWARE REQUIREMENTS SPECIFICATION	9
3.1. HARDWARE REQUIREMENTS	9
3.2. SOFTWARE REQUIREMENTS	10
4. SOFTWARE DESIGN	12
4.1. FRONT END	12
4.1.1. FUNCTIONALITIES	
4.2. CONNECTION	13
4.3. BACKEND TASKS	
5. IMPLIMENTATION	14
5.1. Modules Decription	14
5.2. Screen shots of Website pages	15

7. SOFTWARE TESTING	32
7.1. Types of Testing Performance	32
7.2. Test cases and Results	34
8. CONCLUSION	37
9. FUTURE ENHANCEMENTS	38
REFERENCES	39

LIST OF FIGURES

Figure No.	Caption	Page No.
1.1	Company Services	4
2.1	Dataflow Diagram	28
2.2	Use Case Diagram	30
2.3	Sequence Diagram	31
2.4	Activity Diagram	32
3.0	Website Performance Comparison Graph	45

LIST OF TABLES

Table No.	Description	Page No.
1.1	Hardware Requirements	18
1.2	Software Requirements	18
2.0	User Roles and Permissions	
3.0	Product Categories	

Chapter - 1

INTRODUCTION