**PROGRAMMING INDIVIDUAL PROJECT**

HNDIT 4052

**“ LUSTRA BEAUTY ” WEBSITE**

**( BEAUTY PRODUCT E-COMMERCE WEBSITE )**

**A PROPOSAL PRESENTED BY**

**M.M SHAHEEMA**

(KEG/IT/2022/F/0064)

To the Study in Higher National Diploma in

Information Technology of the

**Advanced Technological Institute**

**Kegalle**

in partial fulfillment of the requirement for the award of the HND

in

**Information Technology**

Of the

**SLIATE KEGALLE**

**SRILANKA**

**2022**

**TABLE OF CONTENTS**

1. **INTRODUCTION** 
   1. **Problem Statement**
   2. **Functional Requirement and Objective**
2. **LITERATURE REVIEW AND STUDY OF SIMILAR APPLICATIONS** 
   1. **Literature Review**
   2. **Study of Similar Applications**
   3. **Motivation**
3. **MATERIALS AND METHODS** 
   1. **Materials**
   2. **Methods**
4. **TECHNOLOGIES** 
   1. **Frontend and Backend Programming**
   2. **Data Modeling and Management**
   3. **IDE’s**
5. **TIME PLAN**

**Gantt Chart**

1. **REFERENCES**

**CHAPTER 1:**

**1. INTRODUCTION**

* 1. **Problem Statement**

In today’s digital era, customers prefer to shop online for beauty and skincare products. However, many local beauty businesses still lack an effective e-commerce platform. The goal of this project is to design and develop **Lustra Beauty** — a modern, user-friendly beauty e-commerce website that enables customers to easily browse, order, and pay for their favorite products online.

* 1. **Functional Requirement and Objective**

**Objectives:**

* + - * Build a modern, responsive beauty e-commerce website
      * User registration and login
      * Provide product catalog management and admin dashboard.
      * Shopping cart and order management
      * Admin panel for product and order management
      * Product reviews and ratings
      * Use PHP and MySQL for backend development

.

.

**CHAPTER 2:**

**2. LITERATURE REVIEW AND STUDY OF SIMILAR APPLICATIONS 2.1 Literature Review**

Beauty e-commerce platforms are important for providing convenient shopping, enhancing user experience, and boosting online sales through mobile-friendly design and secure transactions

* 1. **Study of Similar Applications**

Analyze popular beauty e-commerce sites such as Sephora, Glossier

* 1. **Motivation**

With digital adoption on the rise in Sri Lanka and globally, beauty brands need scalable platforms the project aims to help smaller brands go digital by providing an affordable, customizable e-commerce platform tailored to beauty products

**CHAPTER 3:**

**3. MATERIALS AND METHODS**

**3.1Materials**

**Hardware Requirements:**

* + - * Web Server (Apache/XAMPP/LAMP)
      * Database Server (MySQL)

**Software Requirements:**

* + - * Visual Studio Code
      * Figma (for UI wireframes)
      * PHP, MySQL, HTML, CSS, JavaScript
      * Browser: Google Chrome

**3.2 Methods**

* + - * Requirement Gathering - User needs and market trends.
      * System Design - Wireframes, database schemas.
      * Implementation - Frontend and backend coding.
      * Testing - Functional, usability, and security testing.
      * Deployment - Hosting the project online.

**CHAPTER 4:**

**4.TECHNOLOGIES**

**4.1 Frontend and Backend Programming**

* + - * Frontend: HTML, CSS, JavaScript , Bootstrap.
      * Backend: PHP (for server-side logic), Java (for additional backend processing).

**4.2 Data Modeling and Management**

* + - * Database Design (ER diagrams, Table structures in MySQL).
      * MySQL database with tables for users, products, categories, orders, reviews, payments

**4.3 IDE’s**

* + - * Visual Studio Code (for frontend and backend coding).
      * MySQL Workbench (for database management).
      * Git and GitHub for version control

**CHAPTER 5:**

**5.TIME PLAN**

**5.1 Gantt Chart**

A structured timeline for project development, including design, implementation, testing, and deployment phases**.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TIME MANAGEMENT** | **WEEKS** | | | | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
| Project selection, requirement gathering |  |  |  |  |  |  |  |  |  |
| Preparing project proposal |  |  |  |  |  |  |  |  |  |
| Presenting the project proposal |  |  |  |  |  |  |  |  |  |
| UI/UX design and prototyping |  |  |  |  |  |  |  |  |  |
| Development (Front-end & Back-end) |  |  |  |  |  |  |  |  |  |
| Testing and bug fixing |  |  |  |  |  |  |  |  |  |
| Final report writing |  |  |  |  |  |  |  |  |  |
| Prepare presentation |  |  |  |  |  |  |  |  |  |

**5.2 Budget Summary**

**Budget Summary**

|  |  |
| --- | --- |
| **Task** | **Estimated Cost** |
| **Domain & Hosting** |  |
| **Development Tools** | **(Open-source)** |
| **API Integration** |  |
| **Total** |  |

**6.REFERENCES**

* <https://themeforest.net>
* https://developer.paypal.com
* <https://www.mysql.com>
* <https://www.w3schools.com>