

PROGRAMMING INDIVIDUAL PROJECT

HNDIT 4052

**“ LUSTRA BEAUTY ” WEBSITE
(BEAUTY PRODUCT E-COMMERCE WEBSITE)**

A PROPOSAL PRESENTED BY

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CHAPTER 1:

1. INTRODUCTION

1.1 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.

1.2 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

2.2 Study of Similar Applications

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

2.3 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

3.1 Materials

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>