**Higher Diploma in Information Technology**

**Web Application Development**

**Year 1 Semester 2 – 2025**

**Assignment**

|  |  |  |  |
| --- | --- | --- | --- |
| Learning outcomes/ Objectives | |  |  | | --- | --- | | LO5: | Develop small web-based applications including an HTML, CSS interface, a database interface, Client side (Java Script) and a server application (PHP) to provide complete system functionality | |
| Assessment Weighting (%)  or % contribution to assessment component | 30% |
| Issue Date | 5th February 2025 |
| Submission Deadline | Project Specification : 17th February 2025 |

**Project Specification**

You have been assigned to design and develop an e-commerce web application. This document provides you a detail description on guidelines to be followed and the project deadlines.

The web application should comprise

* + Presentation logic
  + Web Application logic
  + Data Access logic
  + Data Storage

## Functionalities

**Font end:**

The basic web pages must be designed properly along with user input validation. (Client-side validation)

Sample “must have” pages:

* Home Page
* Product /Service Display
* Product detail Page
* Add and View Cart
* User Login
* Registration
* Contact Us / About Us
* Privacy Policy / Terms & Conditions

When a registered user signs in to the system they must be able to do the following functionalities

* View his / her Account / Profile
* View purchase history.
* View Order Tracking
* View Shopping Cart
* Sign out

**Back End**

There should be web master to manage the web site. Where he can log in to system and update and manage the content. Web master should be able to add, update and delete content.

Example:

* User Management - Administrators / Users / Customer
* Product Management
* Order Management
* FAQ Management

**Technologies to be followed.**

Presentation logic –

Programming Languages - HTML, CSS, Java Script, Ajax

IDE / Platform - Adobe Dreamweaver / Figma

Note : You cannot use any other technologies / templates or bootstraps.

Web Application logic –

Programming Languages - PHP

IDE / Platform - Wamp Server

Data Access logic

Programming Languages - SQL

Data Storage

IDE / Platform - MySQL DB

**Project Submissions and Deadlines**

**Submission 1 -** Project Proposal

You need to submit a project proposal (Please refer pages 5-6). This document will be reviewed, and the approval will be given if it is up to the required level.

**Submission 2 - Evaluation - Web application prototype (Presentation, application, data access and data storage logics)**

The system prototype will be evaluated based on following factors.

* Client side Programming
* Structure of the database (MYSQL)
* Functionalities
* Quality and user friendliness
* Accuracy

**Note : Please note that Zero marks will be given for the groups who fail to meet the deadlines.**

**Wish you good Luck!!!**

|  |
| --- |
|  |

|  |  |
| --- | --- |
|  | **ASSIGNMENT TOP SHEET**  **Higher Diploma in Information Technology** |

|  |  |  |  |
| --- | --- | --- | --- |
| Student Registration Number | Student Name | | |
|  |  | | |
| Lab Group | PC number | | |
|  | NA | | |
|  |  | | |
| Module Title : | | | Module Code: |
| Lecturer in charge : | | | |
| Assignment Title : Project Proposal | | | |
| Due Date: | | Date Submitted: | |
| Please Tick here if you have used a proof-reader for this assessment : | | | |
| Turnitin Paper ID\* | | | |

\*Not required if not submitting via Turnitin

|  |  |
| --- | --- |
| **Declaration** | |
| I declare that work presented in the assignment submitted to the Sri Lanka Institute of Information Technology is a record of an original work done by myself*.* This assessment is submitted in the partial fulfilment of the requirement for the award of the degree of Bachelor of Science in Information Technology. The results embodied in this report have not been submitted to any other University or Institution for the award of any degree or diploma. Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given. | |
| *Name(s) and Signature(s) :* | *Date:* |

**Extension Deadline**

Lecturer in charge agrees that the assignment may be submitted ……………. days after the deadline and should be marked without penalty.

Lecturer in charge confirmation: ………………………………………………………………………………..

**Introduction and Description of the Project *(maximum 2 pages):***

*<Introduce your project by describing what you are going to do and its importance.>*

* 1. **Problem Specification**

*<Briefly explain the current situation; mention the software systems that they have at present. Outline the problems they face at present.>*

* 1. **Solution Outline**

*<Explain the solution proposed by you. Include a high level architecture diagram of the proposed system.>*

* 1. **Key Benefits**

*<Describe the key benefits of the system.>*

**2. Details of System Functions *(maximum 2 pages):***

*It is important that the objectives be well thought out and defined. They should be realistic given the time frame.*

*Each function should be explained as follows:*

**Name:**

**Description :**