**Higher National Diploma in Information Technology**

SLIIT Academy Logo Final Colour

**Web Application Development**

**Year 1 Semester 2 – 2023**

**Assignment**

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| --- | --- | --- | --- |
| 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 | 23rd March 2023 |
| Submission Deadline | Project Specification : 30th March 2023 |

**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

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!!!**

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

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| --- | --- | --- | --- |
| Student Registration Number | Student Name | | |
| SA22527974 | K.G.S.D Abeyrathne | | |
| Lab Group | PC number | | |
|  | NA | | |
|  |  | | |
| Module Title : Web Application Development (WAD) | | | Module Code: IT1201 |
| Lecturer in charge : Dr. Gayana Fernando | | | |
| Assignment Title : Project Proposal | | | |
| Due Date: 31th March 2023 | | Date Submitted: 30th March 2023 | |
| Please Tick here if you have used a proof-reader for this assessment : | | | |
| Turnitin Paper ID\* | | | |

\*Not required if not submitting via Turnitin

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| --- | --- |
| **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) : K.G.S.D Abeyrathne* | *Date:*  *30th March, 2023* |

**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:**

*Company name: Speedy Tire Pro*

*Website: Speedytire.lk*

Speedy Tire Pro is a company that sells tires only to shops. This website is about on tire purchasing. Currently customers(shops) have to make the order by telephone calling or messaging to this company. But this task is so complicated and time consuming for both parties. By developing this website, customers(shops) can make the order they want without telephone calling or messaging allowing customer to have an extremely simplified way to make the orders and to see the types of tires available in this company.

Also, the management of the Speedy Tire Pro company can see the orders made by each and every shop through this system.

* 1. **Problem Specification**

Currently customers are making their order through telephone calling and making orders by messaging through WhatsApp and other messaging services. Speedy Tire Pro company had to face so many problems when having these records and details of the orders made by the customers manually. Specially when answering to the calls made by customers and writing the orders on a paper have made mistakes on delivering the tires to that shop and it was difficult to have a record of each and every customer. And also, customer(shop) cannot ask for the details on tires in between 8.00pm to 9.00am as the company is closed in that time period.

When registering a customer(shop) by paper-based method, it takes up to 7 days for the verification process and it was a complicated way to get register. Sometimes keeping these hard copies safely in files were also an annoying thing for the company. So, our website will address these problems.

* 1. **Solution Outline**

Customers(shops) must register (sign in) on our website to make orders on tires. Here they have to confirm their identity by giving details on the shop and the details of the owner of the shop through filling a form on our website. We will allow only one business registration number for a shop. And also, allow only one National Identity Card (NID) number for one owner of that shop. These details will be checked and verified by the staff of Speedy Tire Pro company.

This website has two parts: one for the customer and other for the management of Speedy Tires Pro company.

1. This customer part allows customer to (for the unregistered customer):

* To view the types of tires available.
* To view the details of the tires available.

ex: Price, size, thread pattern of the tire, tubeless or tubetype, special features of each tire.

1.2. For the registered customer:

* To view the types of tires available.
* To view the details of the tires available.

ex: Price, size, thread pattern of the tire, tubeless or tubetype, special features of each tire.

* To view the service charge for the delivery depending on the number of tires buying.
* To choose delivery methods provided by the company.
* To view how much time it will takes for the delivery.
* Can view customer’s profile.
* Can make the payment for the order they made through a payment portal.

2. The management staff of the company will be allowed to:

* View the details of registered customers(shops).
* View the orders made by the customer.
* View the types of tires available.
* To have a record on daily sales, daily income and number of customers registered per day.
* View the number of delivery vehicles (lorries/vans) available at that moment.
* Can make updates/delete on details on the product. (Ex: details of tires).

**Details on the**

**Tires available.**

**Contacting management.**

**Unregistered**

**customer**

**Home Page**

**User**

If registration failed

after the verification process.

**Reject**

**Registration/ Sign in**

**Details on the**

**Tires available.**

**Purchasing options and features.**

**Contacting management.**

**Other customer options.**

If registration passed,

After the verification

Process.

**Registered Customer**

* 1. **Key Benefits**
* This system will be available 24 hours a day and can be used by the customer(shop) to view, buy any types of tires.
* Can get delivered the order on time.
* Can give feedback.
* Can get latest news on tires.
* Can cancel the order and refund the payment.
* Registration can be done within a few hours.
* Customers who are registered on this site can have many offers like coupons and discounts depending on the number of types of tires they purchase.
* Customers don’t need to make telephone calls to make orders.
* Management can find out details on every registered customer through this system.

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

**Font end:**

**Name:** Home Page

**Description:** This is the page that the user sees at first when they load into our website. This contains Search bar, User registration, Tire categories, About us, Chat with us.

**Name:** Tire categories

**Description:** Here, the user can find out about the details on every tire. The tire categories which are available in the store are separated for easy access.

**Name:** Tire Page

**Description:** After choosing a Tire category, this shows the number of tires that are available in the storeroom.

**Name:** User Registration

**Description:** In here user can get registered to the website and have permission to make an order and buy the tires they want.

**Name:** Sign out

**Description:** Here registered customer can get unregistered from the website and from the company whenever they want.

**Name:** Saved List

**Description:** Registered customer can add tires to the Saved list before purchasing or making the order.

**Name:** Cart

**Description:** Here, registered customer can add the tires they are going to purchase.

**Name:** Chat with us.

**Description:** Any type of customer can contact the company by calling or messaging to the numbers mentioned or sending an e-mail to the e-mail address mentioned here. Registered users can discuss with the staff regarding their order made or the order they are looking to make. And also, can appeal for a refund with valid reasons.

**Name:** Buy now.

**Description:** Here registered customer can purchase the product.

**Name**: About us.

**Description:** Contains details on the company and terms & conditions.

**Back End:**

**Name:** User Management

**Description:** Here administrators of the system can view and control the registered customers.

**Name**: Product Management

**Description:** Here admins can update, delete, or add the details of the products, whether products are in-stock or out of stock.

**Name:** Order Management

**Description:** Here the systems admins can see whether the order made by the customer has completed or not. Also, system admins can cancel an order made by a customer.

**Name:** FAQ Management

**Description:** Here, the purpose isto provide information and answers on frequently asked questions by the users.