

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	23 rd March 2023
Submission Deadline	Project Specification : 30 th 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!!!



ASSIGNMENT TOP SHEET

Higher Diploma in Information Technology

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: 31 th March 2023	Date Submitted: 30 th 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

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: 30 th 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.

1.1 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.

1.2 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):

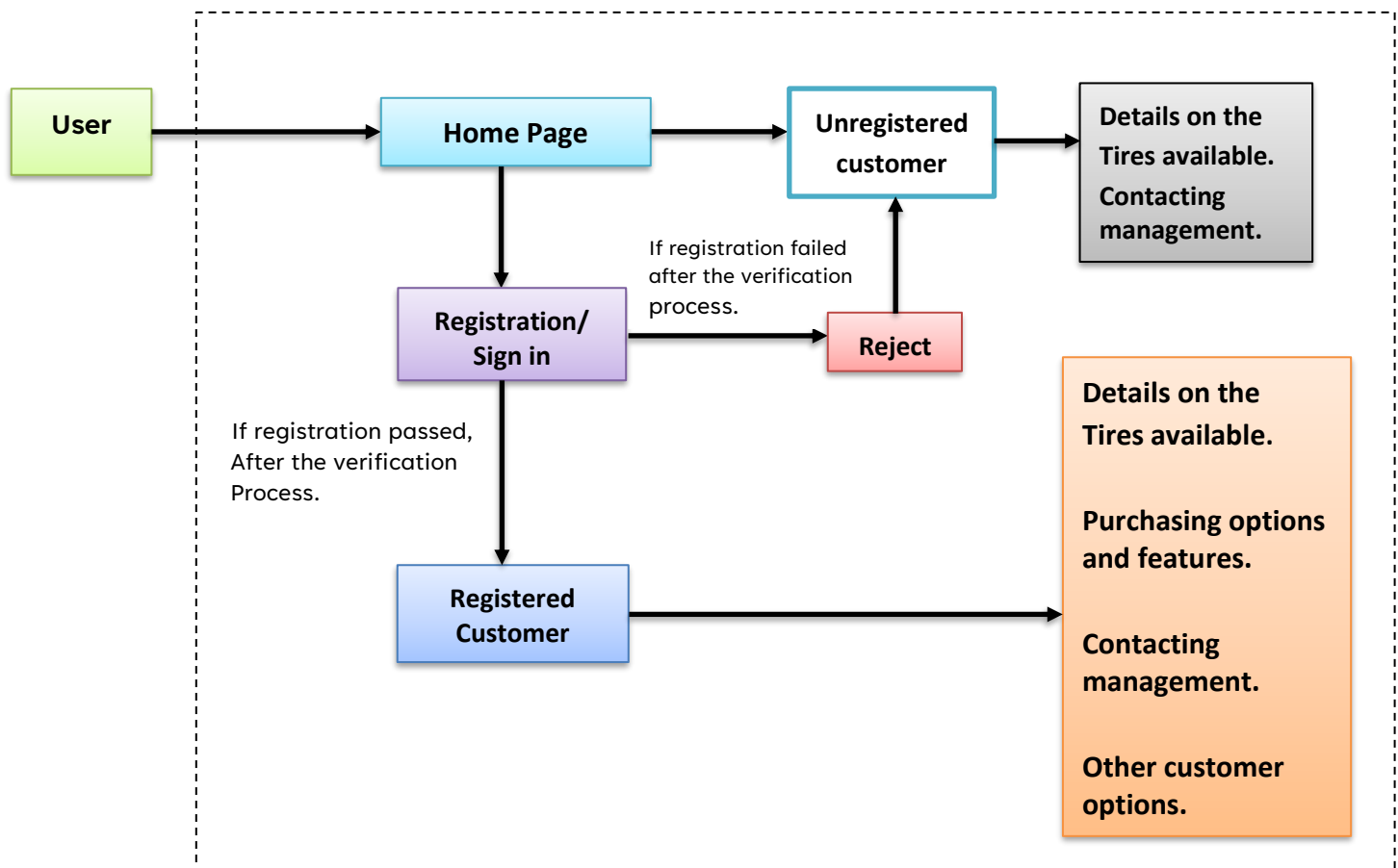
- To view the types of tires available.
- To view the details of the tires available.
ex: Price, size, thread pattern of the tire, tubeless or tubetype, special features of each tire.

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).



1.3 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 is to provide information and answers on frequently asked questions by the users.