ASSIGNMENT TOP SHEET

Higher National Diploma in Information Technology
Sri Lanka Institute of Information Technology

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Module Title : **Web Application Development**	Module Code: **IT1201**
Lecturer in charge : **Dr. Gayana Fernando**	
Assignment Title : **Project Proposal**	
Due Date: **2022/01/08**	Date Submitted: **2022/01/07**
Please Tick here if you have used a proof-reader for this assessment : **No**	
Turnitin Paper ID*	

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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 Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.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) :*

Ruvindu

Ruvindu Kasun Liyanage
IT21701382 | *Date:*
2022/01/07 |

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: …………………………………………………………………………………….

1. Introduction

1.1 Overview

Thanks for the given opportunity to submit a proposal for a web application design and development of *Echo-Fresh Food Company.*

1.2 About us

SpaceLine IT solution is Sri Lanka's premier web design, web development and digital marketing company providing services to enterprises across the world and marketing needs.

We have worked with worldwide clients as a website designing and development service provider and met their expectations successfully to run their online business successfully.

In our company , responsive web design, e-commerce solutions, digital marketing, search engine optimization, social media marketing and website security solutions are the major area of services.

Not only that, *SpaceLine IT solution* consists of profession web designers, project managers ,graphic designer in order to make a higher standard website which you expect.

2. Problem Specification

Considering of the details which sent by you, our company was able to understand *Echo-Fresh food company* needs a full web-based application to over-come lack of problem in connection with online activities in this pandemic situation and sell their fresh vegetable, fruits and other grocery items using online application.

3. Project Description

Online shopping is the process whereby consumers directly buy goods, services etc. From a seller interactively in real-time without an intermediary service over the internet. Since the emergence of the World Wide Web, merchants have sought to sell their products to people who surf the internet. Shoppers can visit web stores from the comfort of their homes and shop as they sit in front of the computer. Consumers buy a variety of items form online stores.

As one of the most popular web development companies in the Sri-Lanka, *SpaceLine IT solution* would be able to make a unique and a better web application for your company .

4. Project Specification

We have been assigned to design and develop an e-commerce web application.
The web application comprises

- Presentation logic
  How the details are shown to users.

- Web Application logic
  The application specific coordination of domain and infrastructure components according to the requirements of that application.

- Data Access logic
  Provides simplified access to data stored in persistent storage

- Data Storage
  The data related to the web application is being stored.

5. Process

5.1 Objectives

- To shop while in the comfort of your own home, without having to step out of the door.
- Sell at lower rate due to less overhead.
- Provide home delivery free of cost.
- Secured Transaction

5.2 Scope

This product has great future scope. Online shopping internet software developed on and from the windows and later versions environments and Linux OS. This project also provides security with the use of Login-id and Password, so that any unauthorized users cannot user your account. The only Authorized that will have proper access authority can access the software.

5.3 Our Services

- Our company provides expert guidance, managed updates, bug resolving solutions and 24x7 monitoring services free for the first year of service.

- We're willing to supply free training and technical knowledge for the employees about using the application.

- We have a reliable support team 24x7 ready to answer any questions you have about our products and services.

6. Details of System Functions

Functionalities

Font end:

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

- 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 into the system they are able to do the following functionalities

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

Back End

This website is a web master to manage the web site. Where we can log in to system and update and manage the content. Web master is able to add, update and delete content.

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

We use these technologies throughout this website.

Presentation logic –
- Programming Languages - HTML, CSS, Java Script, Ajax
- IDE / Platform   - Adobe Dreamweaver

Web Application logic –
- Programming Languages - PHP
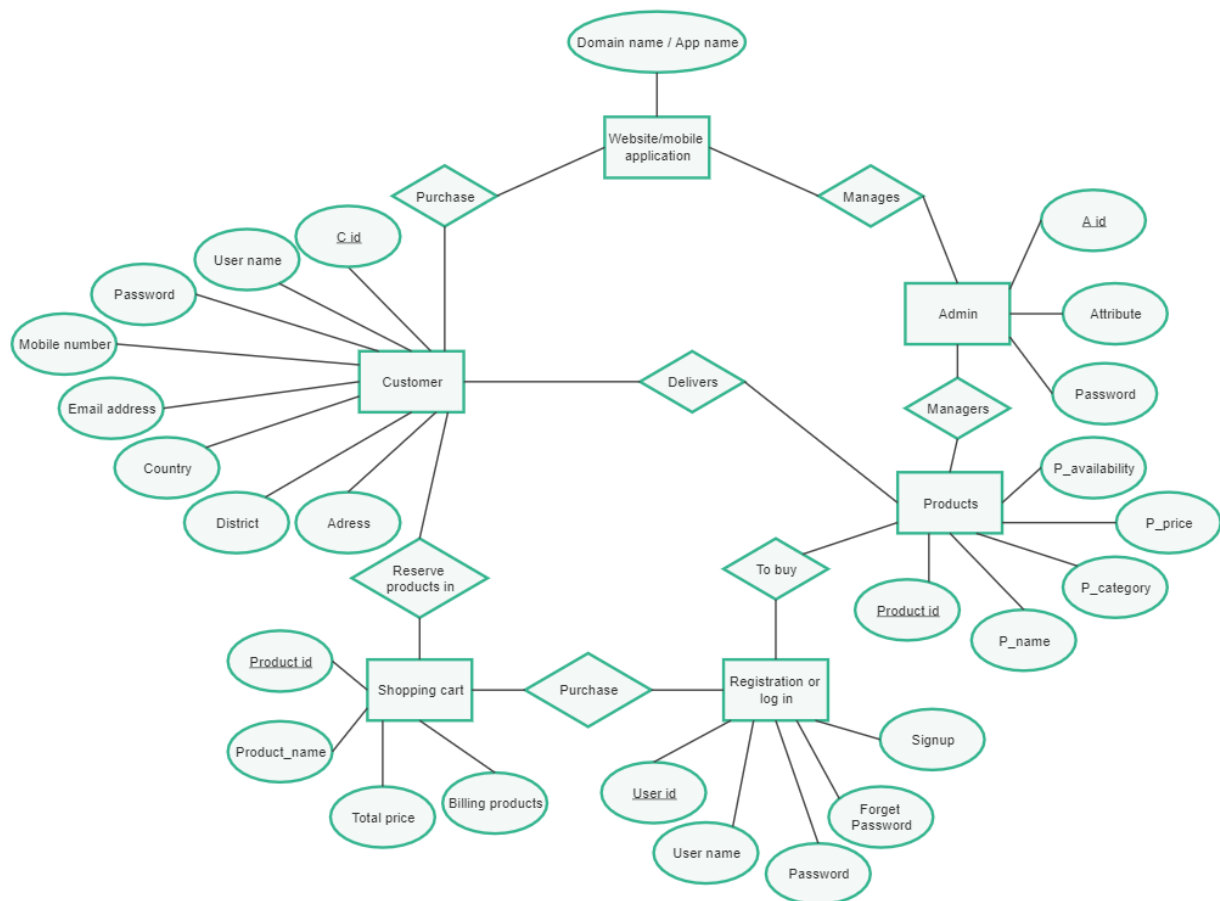- IDE / Platform   - Wamp Server
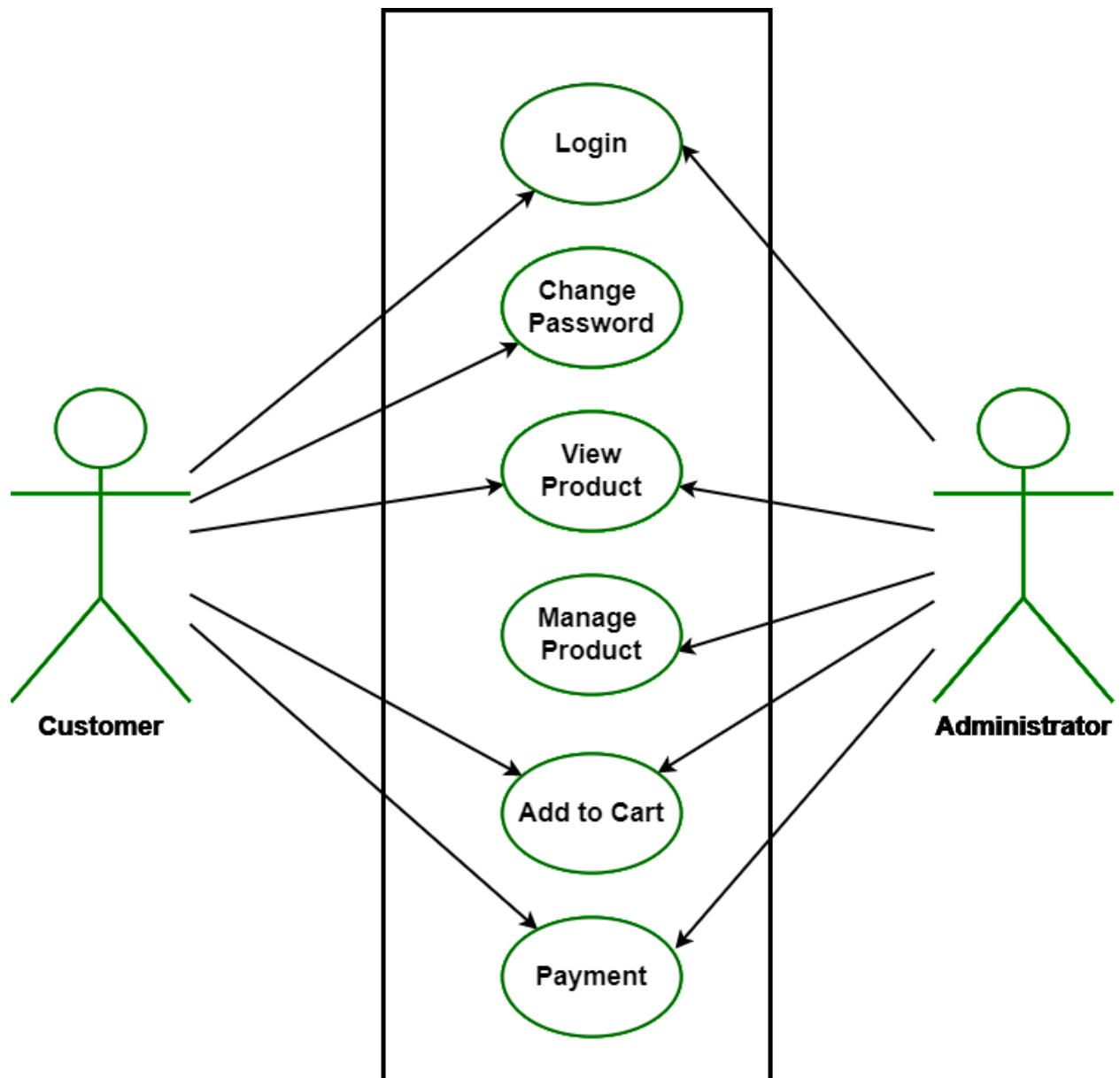
Data Access logic –
- Programming Languages - SQL

Data Storage –

- IDE / Platform   - MySQL DB

ONLINE SHOPPING SYSTEM ER DIAGRAM

ONLINE SHOPPING USECASE DIAGRAM

ONLINE SHOPPING CLASS DIAGRAM

Customer
- customerNam...
- address : string
- email : string
- creditCardInfor...
- shippingInfo : s...

+ register()
+ login()
+ updateProfile()

User
- uselD : string
- password : string
- loginStatus : string

+ veryfyLogin()

+ user
0..1   0..1

+ user
0..1

0..1

Administrator
- adminname : string
- email : string

+ updateCatalog()

1

Shipping Info
- shippinID : integer
- shippingType : string
- shippingCost : integer
- shippingRegionID : integer

+ updateShippingInfo()

+ shipping Info
0..1

+ shopping Cart   0..1

Shopping Cart
- cartID : integer
- productID : integer
- quantity : integer
- dateAdded : integer

+ addCartItem()
+ updateQuantity()
+ viewCartDetails()
+ checkOut()

+ orders   0..1

Orders
- ordderID : integer
- dateCreated : string
- dateShipped : string
- customerName : string
- customerID : string
- status : string
- shippingID : string

+ placeOrder()

1
1

+ order Details

Order Details
- orderID : integer
- productID : integer
+ productName : string
- quantity : integer
- unitCost : float
- subTotal : float

+ calcPrice()

0..1