SRI LANKA INSTITUTE OF ADVANCED TECNOLOGICAL EDUCATION

(SLIATE)

A Individual Project Proposal

"Online Order Billing System For Upul Kumara Fuel Station"

Higher National Diploma in Information Technology

ATI - ANURADHAPURA

Created by

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1.0   INTRODUCTION

The project I am doing is developing a billing system for petrol stations. With today's decrease in fuel prices, it is an online project that can issue bills so that consumers can know all the information about fuel price, type of fuel, quantity of fuel, quantity of exported fuel etc. . from the warehouse.

This Project Proposal is submitted to meet the requirement of the HNDIT1052 of Information Technology in Advanced Technological Education, Anuradhapura.

This Project Proposal is submitted to meet the individual project module software development requirements led by the Sri Lanka Institute of Advanced Technology Education (sliate) This project proposal is a formal agreement for the completion of a project and should not be confused with a project contract.

Fuel type we need Fuel quantity Ordering from any place anytime This software can be done Create an account online and create a fuel ordering website

"Upul Kumara Petrol Stations" is a petrol station located in Pandulagama, Anuradhapura that provides fuel to customers. Customers can order from any location and take the vehicle to the petrol station. After that, the vehicle can get the amount of fuel ordered online. The process is done by this software.

 The purpose of this system is to issue receipts

2.0 BACKGROUND

As it is a country that is developing with the development of technology, there are no technical tools like this, so these tools can save time. In order to avoid the difficulties faced in obtaining fuel during the Covid 1990s, it was said that fuel was provided in a system way, but now it is not working. I can inform the people in Pandulagama about the amount of fuel needed at the gas station and inform the customer about the cost of the amount of fuel.

To make this system, when I have inquired from Mr. Upul Kumara petrol station manager, he said that such a system is not currently in use in that organization. When I inquired about his information about this system, I got the Receipt number, product, price ,time and date. must be included

In order to save time, the customer can make a large transaction by confirming the order in advance and preparing a program for cash payments, and avoiding the inconvenience caused by the customer through this software.

- **Bills currently issued at Upul Kumara Petrol Station**

- **Feasibility**

3.0 PRELMINARY INVESTINGATION

With the lack of fuel in today's society and the rise and fall of fuel prices, the amount of fuel provided has also decreased, so this software can also be used for fuel marketing changes and customers can avoid losses and trust in stores is also built.

4.0 AIMS AND OBJECTIVES

4.1 Aims

The purpose of this my project is to provide this software to the fuel stores and thereby get the value for the fuel type, fuel quantity and give a bill to the customer. Is to enable a technical tool to receive a bill so that it is possible to purchase fuel in advance, fuel in advance, fuel in advance, and soon.

Due to severe shortage of fuel during covin-19, the people were greatly inconvenienced, so the government introduced the system, and the system is now out of use. I have introduced this software for the purpose of this system

Customers also have the ability to check the availability and availability of the required fuel station. Also, if you know the amount of fuel in advance and do not have enough money to get the amount of fuel related to it, you can cancel the amount of fuel and know the amount of fuel that can be obtained according to the money.

4.2 Objectives

- To make the bills issued during fuel delivery.
- Reducing the amount of bills and expense sheets by ordering online and receiving a receipt on the phone for customers.
- Provide a dependable assessment of operational efficiency that is acceptable to the user.
- Being able to clearly know the amount of fuel imported per day.
- Being able to calculate the amount spent per liter of fuel.
- Being able to correctly mark the type of fuel received and get it.
- It is a simple and efficient software that can provide correct information to suppliers efficiently.

5.0 PROPOSED SOLUTION

This is done to reduce the traffic in petrol stations and avoid inconvenience to the people. This system is more useful for very busy people. This gives them the ability to get the required amount of fuel at any time.

Issue of bills automatically after receipt to build confidence in the client that transactions are correct to accommodate unusual circumstances occurring to customers while obtaining fuel.
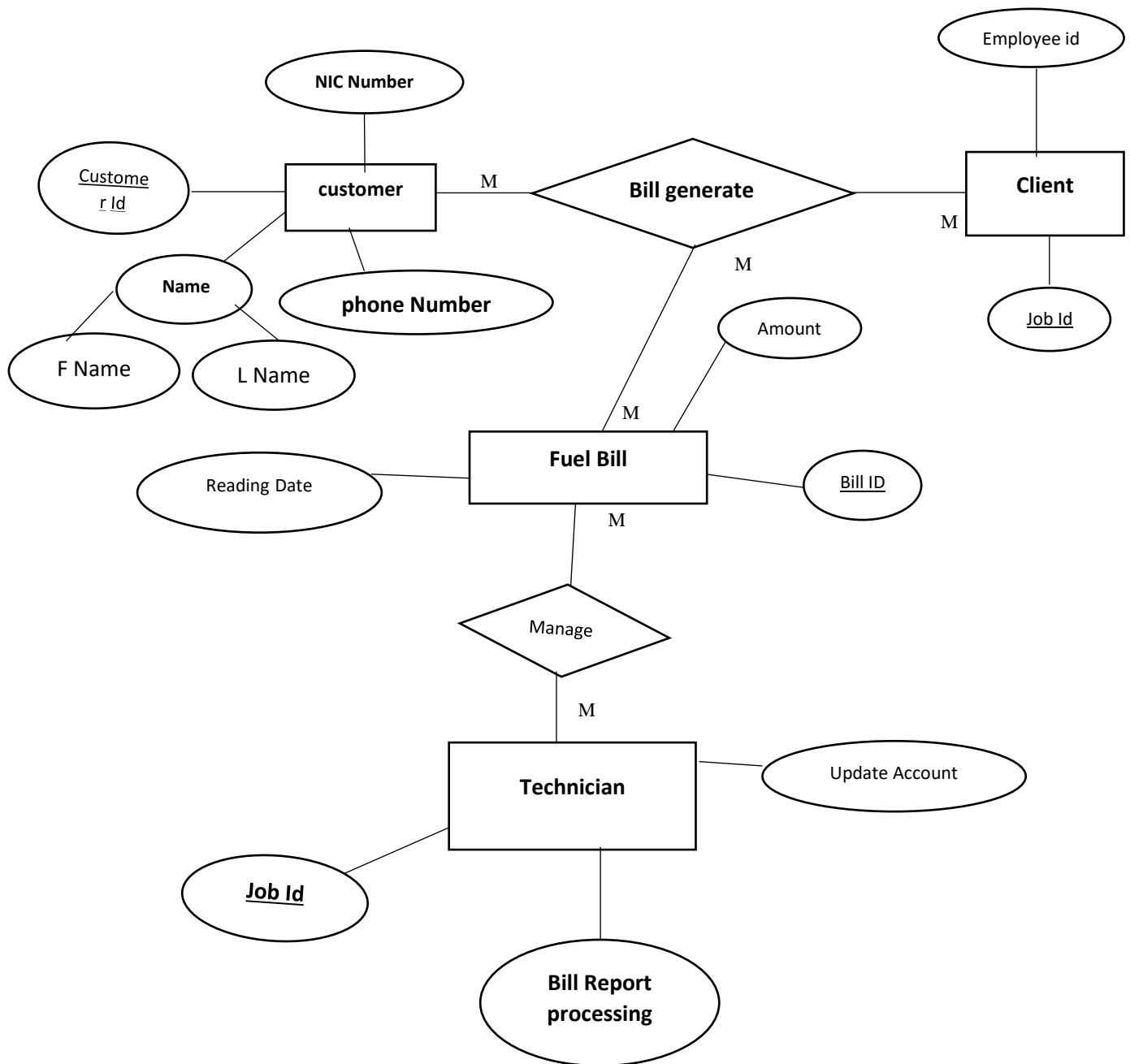
The client: The client provides the type of fuel required by the user and the fuel according to the amount given by the user and the service provider gives the bill to the customer.

Customer: In order to calculate the amount of fuel corresponding to the amount given by the customer, the fuel receipt is used to know the type of fuel, the amount given, the total price of the available fuel.

Technician: He is able to monitor the total amount of fuel imported from the store and perform budget management of fuel. He is able to delete all unnecessary information and update the information.
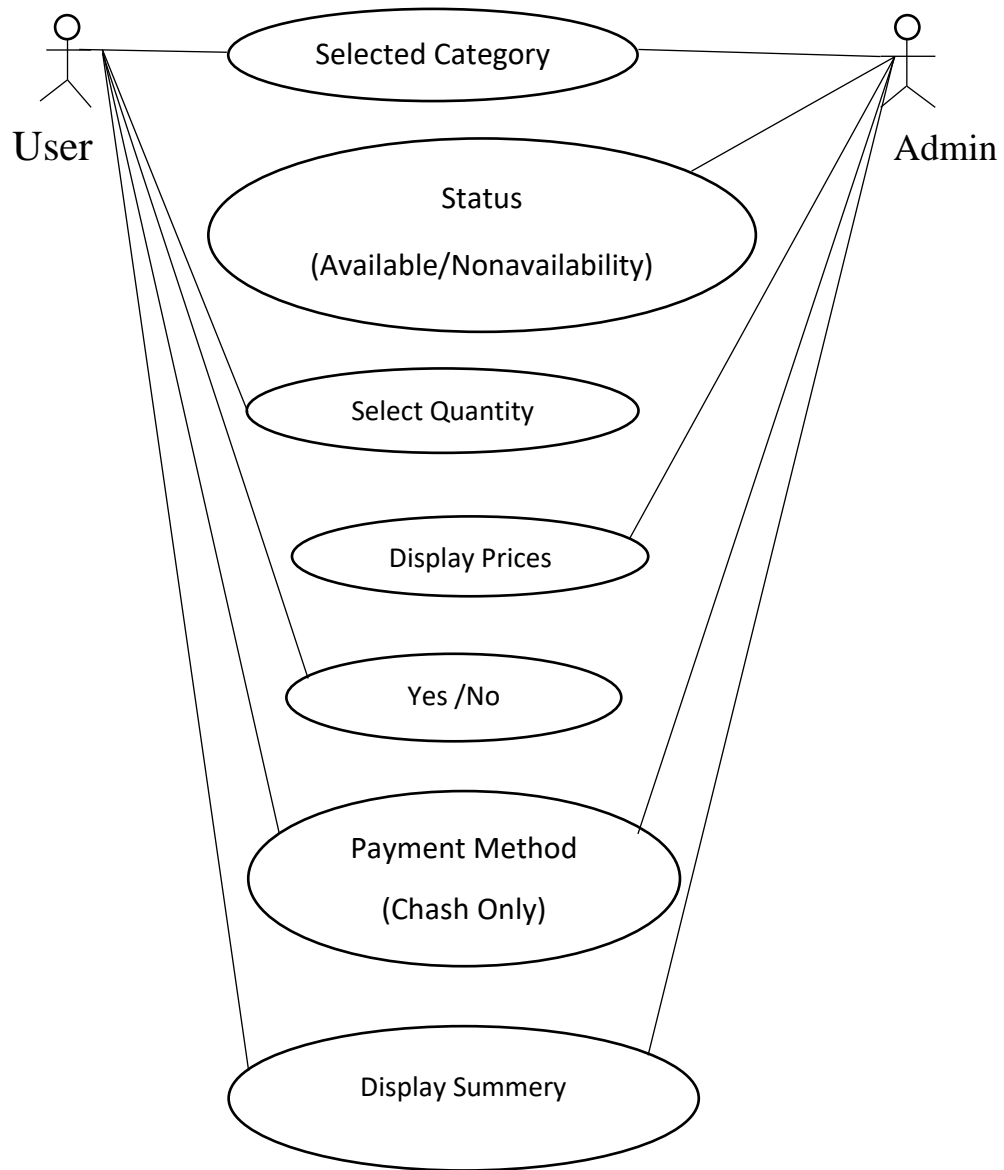
5.1 ER diagram

5.2 Use Case Diagram

- **Register Customer**

System Login

Selected Category

Status
(Available/Nonavailability)

Select Quantity

Display Prices

Yes /No

Payment Method
(Chash Only)

Display Summery

User
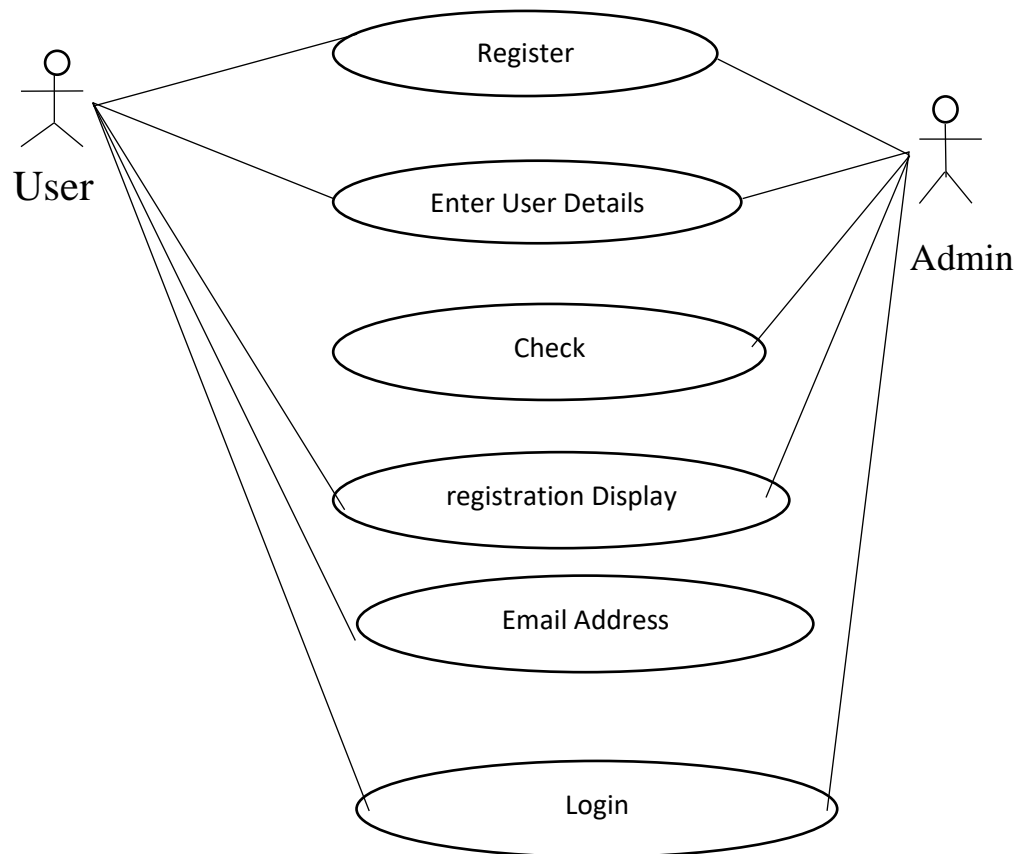
Admin

6.0 FEASIBILITY STUDY

6.1 Technical Feasibility

● **As the Software used to create this system**

- ❖ Operating System : Windows 10
- ❖ Presentation layer : PHP, HTML,CSS,C#
- ❖ Database : My SQL

● **Hardware requirement**

- ❖ Processor : Standard processor with a speed of 2.60 GHz
- ❖ RAM : 4GB
- ❖ Hard Disk : 1TB
- ❖ Monitor : Standard color monitor
- ❖ Keyboard : Standard keyboard
- ❖ Mouse : Standard mouse

7.0 TIME FRAME

	1	2	3	4	5	6	7	8	9	10	11	12	13
Select the Project title	■	■											
Write the project proposal		■	■										
Designing			■	■	■	■	■	■	■				
System development						■	■	■	■	■			
System testing										■	■		
Implementation												■	
Final document													■

8.0 Methodology

The waterfall methodology is a project management approach that emphasizes a linear progression from beginning to end of a project. This methodology, often used by engineers, is front-loaded to rely on careful planning, detailed documentation, and consecutive execution.

the project

- Problem Definition
- Planning
- Designing
- Development
- Testing

❖ Problem Definition

There are covered six steps of the project. They are Evaluate current system, define requirements, Define specific function, Define risk and risks Management approach, Develop the project cheater and Develop the project proposal.

❖ Planning

There are two steps of this phase. Those are Develop scope statements, Develop and refine other plans

❖ Design

There are three steps this phase: User Interface design. Design server setups and Database design

❖ Development

There are three steps of this phase: Develop pages and Hyperlinks, Develop Functionality and Content migration/integration.

❖ Testing

There are three steps of this phase: testing in local servers, upload the web to remote server and controlling and test.

9.0 CONCLUSION

Data was collected from customers and owners for a website project. Also, the information received from owners and customers was examined and decided whether a website should be developed. When asked by the customers and owners, the owners have the objectives of creating an animation website to make customers secure through the new brands of the website they have created and to earn money or save time by doing business through it.

10.0 REFERENCES

1) **Title :** CEYPETCO Fuel System

   Available: https://ceypetco.gov.lk/marketing-sales/

2) **Title :** IOC Fuel System

   Available :

   http://archives1.sundayobserver.lk/2023/05/01/news/ioc-reduces-fuel-prices

3) **Title**: Web Browser

   Available: https://www.w3schools.com

4) **Title:**Upul Kumara Filling Station