Fuel Management System



Fuel Management System

(Computer Express, South Africa)

Industry: Oil and Gas

Platform: Windows PC/Laptop

Tech Stack:

• ASP.NET, WPF, Prism, C#, SQL

Project Overview:

Fuel Management System is a biometric based solution empowering transparency between fuel pump owners and their business clients. South Africa based Fuel Distribution business owner approached us to build a system which mandates biometric verification for business clients to get the fuel. The project aimed at increasing the transparency between the Fuel stations owner and business clients.





Fuel Management System



Challenges / Problem Statement:

- Business clients had multiple vehicles and drivers which got fuel from the station. As the transaction
 was completely manual, it often resulted in discrepancies while matching end calculations with
 business clients.
- When worked in a credit mode, it was difficult for the drivers to know real time credit available.
- In the manual process it was difficult to verify if the driver asking for fuel is really from that business
 clients or not.



Solution:

- Fuel Management System allowed enrolment of business clients and their drivers in the system.
 Drivers will be enrolled and verified by scanning their finger prints. Fuel was given to only verified drivers, removing the ambiguity about whether the drivers is related to specific business client or not.
- Fuel was given only after verification of driver and confirmation of driver, making the transactions completely transparent. This made the process and business relations with the clients smooth.
- Fuel was given only after seeing the current available credit limit for the specific business client. This
 made sure that no transaction was going over and above the credit limit.

Fuel Management System



Types of Users

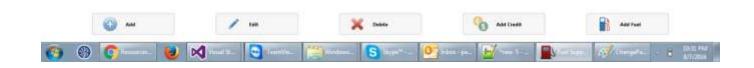
- Fuel Station Owner Admin
- Fuel Station Employee Operator

Key Features

Fuel Station Owner - Admin

- Manage (add / edit / delete) employees (operators)
- Manage (add / edit / delete) key customers
- Manage (add / edit / delete) drivers of key customers
- Search and sort functionality for employees (operators)
- Associate driver profiles with key customers
- Update credit / cash balance
- Reports based on key customers and drivers



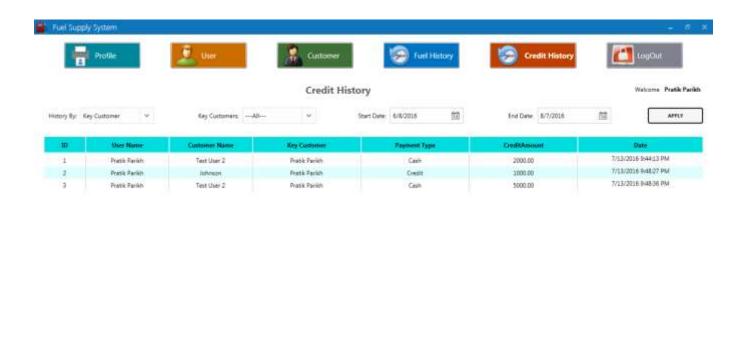


Fuel Management System



Fuel Station Employee - Operator

- Login using pin code
- Verification of drivers using figure print
- View the available credit limit for the verified driver
- Add / edit fuel supplied detail (fuel type, fuel volume, fuel price)
- Verification of fuel purchase by driver using finger print or PIN code



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