SE 115

PROJECT FINAL REPORT

GAS STATION INFORMATION SYSTEM

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OBJECTIVES OF OUR APPLICATION

The project that we prepared is solve some problems we all face in daily life. In gas stations we can encounter the same problems like confusion and wait in queues so much time to pay. We design a program that we don't be effected by weather conditions and accelerate this process.

Also this program helps us to be more comfortable and spend less stressful times. We aimed solve this problems with our code knowledge and interest in programming. You don't be confused if you follow the flow direction in our program.

STATES SERVICES IN OUR APPLICATION

Our application has 2 users (Customers and Workers) but workers can access their panel only writing Control_Panel when system ask for name. Customers have two options. These are Wash and Fuel. Workers can see all the informations about customers.

1- Customers can

    * Choose between fuel or wash

    * Select fuel section

    * Buy fuel

    * Pay with cash or card

2- Workers can

    * Stop the process of the system.

    * See the customer information.

EXPLANATION OF THE CODES

CUSTOMER
-name: String
-L: double
-bill: double
-password: int
+setName(myName: String)
+getName(): String
+setPassword(myPassword: int)
+getPassword(): int
+setL(myL: double)
+getL(): double
+setBill(myBill: double)
+getBill(): double
+customer_display(): void
+ customer_private_display(): void
+displayHello(): void

This is our class diagram. In our Project, there are 2 classes that we created. They called main class and Customer class. We are using main class running program and customer class for getting information about users then displaying the information for workers.

```java
public void customer_private_display() {
    System.out.println("This is the customer's private information.");
    System.out.println("Name: "+ getName());
    System.out.println("L: " + getL());
    System.out.println("Bill: " + getBill());
    System.out.println(("Password " + getPassword()));
}
```

One of the our methods is customer_private_display(). This method is used by workers. It provides workers to learn detailed information about the customers.

```java
public void customer_display() {
    System.out.println("This is the customer's information.");
    System.out.println("Name: "+ getName());
    System.out.println("L: " + getL());
    System.out.println("Bill: " + getBill());
}
```

Another method is customer_display(). This method is used by customers . If customers want to learn detailed information about their purchase history, this method will help them.

```java
public static void displayHello() {
    System.out.println("Welcome to the our gas station.");
    System.out.println("Please enter your name then choose which service do you want to use.");

}
```

This method named displayHello() is used for to greet the customers. Also, it used for get some simple informations and let customers make their service choices.