# Functionality:

This system is created to act as a car wash system.   
It allows users to sign up and login to use different functionalities of the project.

It also allows 2 different kinds of employees , i.e: Employee and Manager to sign up as well.   
Both these employees have almost identical available actions in the application as well as the Manager having a few extra functionalities than the Employee.

The users, employees and managers can add money into their washcard to buy services from the store.   
Each kind of user, gets a different kind of discount on the prices.   
  
Users can level up their membership by spending more money on the system, which will give them more discounts.   
  
The system uses local files to store all the sign up details of all kinds of users, they current amount in their washcards, the number of items on sale and their details as well as the total profit gained for each item.

## Python Modules:

1. class Person:

This class holds all the basic info that is common between all kinds of users whether it be a simple user, manager or employee

1. class Employee(Person):

This class extends from the Person class and is only used to create objects for manager and employee type users.

It stores their necessary info such as status and employee id.

1. class PrintProfits(QDialog):

This class opens up a dialog box, that prints the list of product names present in the products & prices.txt file as well as the individual profit for each item.

1. class App(QMainWindow):

This is the Main window that appears when the program starts and takes the information for any kind of user to register. It also gives the button to move onto the sign in screen

1. class Signinwindow(QDialog):

This is the dialog box that takes the necessary info needed for signin and signs the user into the system if correct credentials are provided. It takes username and password as input.

1. class UserMain(QMainWindow):

This screen shows users the options available to a normal user.

This includes, viewing info, purchasing products, and adding amount to their washcards.

1. class ProductView(QMainWindow):

This screens shows all kinds of users the list of currently available products.

It applies specific discount on all the prices depending on the user type, such as a regular user, employee, manager etc.

1. class EmployeeMain(QMainWindow):

This is the main window that an employee sees after logging into the system.

It provides all the functionality that the employee can perform, such as :

Viewing user details , showing user card’s details , printing washcard records and buying available products.

1. class UserPrintinfowindow(QDialog):

This screen displays the information of user onto a dialog box.

1. class usercarddetails(QDialog):

This dialog box, displays the details of the washcard of a specified user.

1. class ManagerMain(QMainWindow):

This window provides all the functionalities that a manager can do after logging into the system.

The manager can access this screen after signing in.

1. class updateinfowindow(QDialog):

this dialog box, shows the current information of any user and gives us the ability to update any field according to our will.