



Group Leader : Farhan Ali (20P-0019)

Group Members : Hassan Ali (20P-0149) ,

M.Ghazanfar(20P-0567)

Project Name: Parking Reservation System

Assigned By : Sir Shoaib Khan

Subject : Object Oriented Programming

Contributions in this project :-

Farhan Ali :-

- **Programmed login cycle (friend function)**
(with the help of switch statements and recursion so that it gets called each time login fails or is required)
- **Created Choose place method**
(used ascii numbers to represent alphabets and if statements , for loops to access rows and columns of the parking space arrays)
- **created the sign up and login methods**
(taking inputs from user for sign up methods and stored it in file accounts.csv and later logged in with the help of those accounts by reading accounts.csv)
- **created place check method**
(reading data from parkingrecord.csv and using random values generated by pressurepad() to edit and delete records in parkingrecord.csv)
- **Created delete record method.**
(opening input and output file at the same time to write in output by ignoring records/lines that are not required anymore)
- **Created change status method**
(reading records from parking.csv and using pressurepads() random value to change status of the reservation either arrived or not)
- **Created int to string function**
(converts int to string which is useful in storing spotname/placename)

Hassan Ali:-

- **Created get data method**
(which takes data from user and also checks time)
- **Created pressure pads method**
(by generating random values between 1 to 10 which simulates pressurepad using rand() and srand())
- **Created calculate arrival time method**
(by adding reservation time (in min) entered by user to actual system time(min) and some checks for hours min and sec)
- **Created password validity method**
(by using if condition to make sure password contain more than 6 characters)
- **Commenting in code**

M.Ghazanfar:-

- **Created store in file method**
(stores all the records in parkingrecord.csv which is later accessed by other methods)
- **Created available spaces method**

(used 2 for loops and formatted output so it simulates the available and non available spots in parking lot)

- Created constructor (to initialize all the spots as available(A) using for loop applied on array)
- Created check username method
(which reads file to make sure that the username is not already taken)
static variable such as char pname,int Bill;
- created getTime method(which gets the current system time by using builtin structure(time t) ctime library