**National University of Computer and Emerging Sciences**

**Karachi Campus**

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**CAR RENTAL MANAGEMENT**

**Project Report**

**Programming Fundamentals**

**Section: 2-A**

**Group Members**

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**INTRODUCTION:**

This project is basically designed for a car rental company. This is based on the concept of online platform by which users can view and book available cars and drivers on the basis of their ratings. This program is made user friendly to provide user a great experience.

By this application users can access to:

* 1. View and book available cars.
* 2. View and book drivers on the basis of their ratings.
* 3. Choose the color of the car.
* 4. Rent per mile of a car
* 5.Make easy for user to select car.
* 5. By this application, user can get the bill receipt by providing details

**PROBLEM ANALYSIS :**

The step of problem analyzation of Car Rental System can be comprehend by the working principle (i.e) the admin creates a system which provides the essential facilities to the client which includes rental car records with specifications, driver details with ratings from which client can be able to book cars and choose the driver of their own choice.

**❖ Compiler Used:** The project code is compiled and run on the compiler named as Dev C++.

**❖ Programming Tools:** The programming tools used in the project code are as follows:

1. Structures
2. Functions
3. Built-in function ( includes strcpy)
4. Filing
5. Conditional Statements (which includes if-else & switch case)
6. Loops (includes For loop & While loop)
7. 2-D Array

**Programming Details:**

Admin Portal function:

Basically, this is a function in which the data of application will be stored. If we enter code (0000), in the option of cnic number, admin portal will open, which will show the history of booking and is used for file handling.

Discount Function:

In the discount function we store the total amount and there is a condition which will check how much discount user will get.

Print detail function:

This is also a function in which we are printing cars, car id’s, rate per mile and total miles.

Structure Cars;

A structure is made for storing car id’s, cars name, and price per mile.

2d Arrays:

Using 2d arrays to print driver id and his rating.

Switch statements:

To check the damage of car.

* If else conditions:
* To select car.
* To choose the color of the cars.
* To select driver.
* To select total days of trip.
* To select pick up location.
* To check the amount of discount.
* To check whether the customer has returned the car on time.
* To calculate price per mile.
* To check the condition of car.
* To calculate the discount.
* To calculate the penalty.
* To calculate drive, pay.
* For calculating the bill.

CODING:

* ABDULLAH ISLAM(21K-4896)
* Main function
* ABDUL ALI AHMED(21K-3379)
* Discount function
* SAIM SHAH(21K-4887)
* Print-detail function
* ABDUL SAMI(21K-3228)
* Admin portal function

**CONCLUSION :**

The collective efforts of our team aims to facilitate the people renting a car in affordable cost and for considerable duration by developing a web based system that allows customer to register and reserve car online and for the company to effectively manage their car rental business.