

# **AQA A-Level**

# **Computer**

# **Science NEA:**

# **Cheeko MOT**

# **Centre**

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# 1 ANALYSIS:

## 1.1. Introduction

### 1.1.1 Background

Cheeko MOT Centre is a car inspection station in East London which tests the safety levels of vehicles on an annual basis with several examinations performed on car parts such as brakes, mirrors, seatbelts, tyres and many other parts of the car to determine whether or not it is in a roadworthy condition. If the vehicle meets the legal requirement, the MOT Centre provides the vehicle owner with a certificate. However, if the vehicle fails to match the criteria, Cheeko MOT Centre can retest the vehicle on a later/same date once the issues in the vehicle have been addressed and resolved by the owner. Cheeko MOT Centre take roughly on average 45–60 minutes to complete the test. Alongside the MOT Test, the centre performs other repairs/replacements on vehicles such as battery replacement, servicing, number plate and servicing, interim and full service, with all services being of varying costs. Currently, anyone that wish to have an MOT Test or other services performed on their vehicle must contact the centre either by calling them on the phone or visiting the location physically a few days before in order to book a date which is very inefficient as it requires the customers to take additional time out of their own day in order to book an appointment, hence, Cheeko MOT Centre would highly value if these limitations and weaknesses in their business could be overcome with the assistance of computer science by producing a system that increases their productivity and efficiency.

### 1.1.2 Problem Definition

There are several problems that need addressing in Cheeko MOT Centre in order for them to become more efficient. As of now, there isn't any electronic booking system which means that customers have to face the additional task involved in either contacting or travelling to the MOT Centre to book an appointment which limits the number of customer that the MOT Centre receive since they are most likely going to be locals which prevents their business from branching out to longer distances; it also means that if people wish to alter or cancel their booking, they must take further time out which is likely to be highly frustrating and time consuming for customers. The other issue is that scheduled appointments are recorded in a single diary which is highly inefficient as there remains the possibility that the misplacement of the diary will prove to be very costly and damaging for the firm because they will completely lose track of the date and time of the arranged appointments and the corresponding customer/vehicle details.

Finally, the contact details of the customer and their vehicle are also recorded in the same diary which would make it very difficult for the workers in the MOT Centre to

filter and search the details of the customers in order to contact them if their appointment has been cancelled or changed which is much more time consuming. Due to this lack of organisation and the absence of a digital system within their firm, Cheeko MOT Centre require me to create a technological process which will solve these issues to increase the ease of both the customers and the staff. An electronic system will also be very beneficial as it will allow the business to calculate their monthly revenue by finding the total sales rather than having to go through each record in the diary and find the total revenue. Therefore, a system which resolves the above-mentioned problems will help improve the management of the MOT Centre to a significant extent.

### 1.1.3 The User

The first user of this system is the workers in the MOT Centre. They will be able to track when appointments are scheduled and the customers/vehicles details as well as find out what services need performing on the vehicle. The workers can also find the total price to charge the customers upon completion of the service/MOT as the prices are fixed and will therefore calculated by the system automatically as the user selects the appropriate services need performing on the car.

The next user of the system is the customers who will book an appointment. The customer will be able to log in to the system to create a booking for MOT or other services, alter the booking date/time or cancel appointment. The user can also write an email to the firm regarding any query or comments or find the location of the centre from their webpage.

The final user of the system will be the admin of Cheeko MOT Centre in order to calculate the total number of sales, revenue which will further be used to work out the firms' level of profits.

## 1.2 Investigation of User Needs and Identifying Limitations

### 1.2.1 Interview With Cheeko MOT Centre

**Date of Interview: 15/06/2020**

**Place of Interview: Cheeko MOT Centre**

**Can you briefly explain how appointments are currently booked and recorded?**

Currently, customers will either contact us over the phone or come to this centre to arrange an appointment and we record the customer, vehicle and servicing details in our diary which we look at on a daily basis to identify how many vehicles are scheduled to be serviced on that specific day.

**How can a customer alter or cancel their appointment?**

If customers wish to change or cancel appointment, they must again call us or they can come to the centre and we will cut their name off our diary for the day their booking was scheduled.

**What are the limitations you see in this process?**

We often receive comments this process is quite a struggle for our customers because at times, the customers have to wait on the call as another person may be on the call booking an appointment which would mean the other person will have to remain on hold to wait their turn. Also, we can understand that it may be annoying for customers to have to come in person and book as it would mean taking their time out which they could use to do other things. Also, the most significant issue for our business is the high risk to our business if our diary was to be misplaced as that is our primary source of booking and we have no other backup which would be extremely damaging to us.

**Can you explain how your current problems can be solved?**

It would be very beneficial to us if all the details of customers, their bookings and vehicles was stored on a database as it would provide a level of security because the fear of losing all our records will be erased. Another solution for the problems our customers face is if our business had a system where people could book, alter and cancel appointments and in that way, we will also be able to see our schedule for the day in a much easier way which will significantly reduce the time-consuming aspect of our current system.

**How many services can be booked at once and how many appointments can be assigned at the same time?**

We can only perform a single service per appointment with customers being able to book one appointment at a time and the number of mechanics on the appointment vary depending on the service. Also, we only schedule one appointment at a given time due to the limited capacity we have but would like to expand our MOT Centre if this digitalised system proves to be a success and increases our profits.

**How do you currently calculate your revenue and sales?**

We log the price paid by customers in an appointment in our diary beside their details and we manually calculate the total revenue and count the number of sales at the end of each month but it would be very helpful if your system would be able to do this automatically as it would save us a lot of effort and time.

**What is the type of details you record of your customers?**

We record their name, email address, car registration number, phone number, date/time of appointment and what service needs performing. The reason we take their email is to send them an email or call them manually the following year to remind them to have their MOT renewed in the hope that the customer will return to us again.

## 1.2.2 Observation

Date of Observation: 15/06/2020

Place of Observation: Cheeko MOT Centre

From my observation of the current process, I have realised the following about the workers, customers and the inefficiencies present in their existing method of operation:

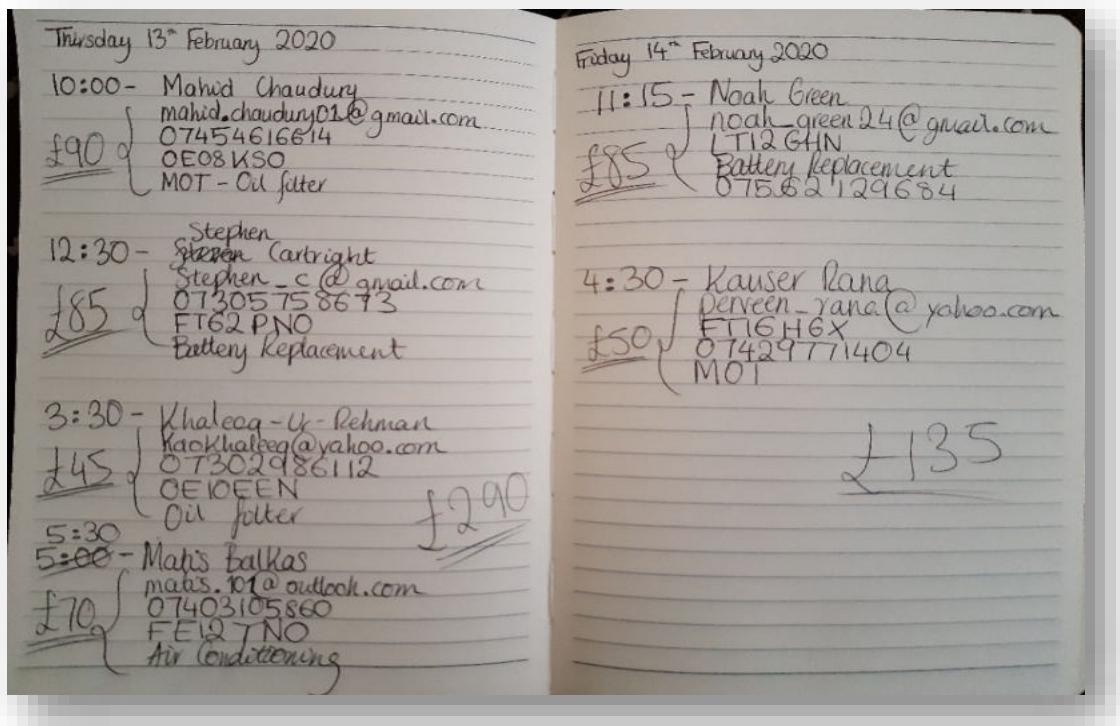
### Workers

1. Check the diary at the start of the day to see what appointments there are on that day
2. When the staff come in the morning, they tick their name in a register hence the number of days worked by the mechanic is recorded manually in a separate diary
3. Record the bookings in their diary if a person calls or comes in person for an appointment
4. Sometimes, the appointment of two customers may overlap so the workers call the person to ask them to reschedule their appointment for an earlier/later time
5. Any client that has booked an appointment will have to either call or visit the centre to alter or cancel the appointment
6. Record the price paid by customers in the diary next to their details upon completion of the MOT/Service
7. Workers send a text manually to remind any customer if they have an appointment the following day
8. Calculate the revenue manually at the end of the month by adding up the recorded payments in the diary written beside the name of the customer

### Customers

1. Some call the MOT centre to book/alter/cancel an appointment while some others attend in person to these things
2. Most of the customers are unaware of the exact cost until they reach the MOT Centre as there isn't any information online for them to find details about the MOT/Service prices
3. Customers have their personal details and vehicle information written in the centre's diary
4. Customers aren't given any proof of evidence that they have made a booking in the MOT Centre

## 1.2.3 Investigation of Documentation



### CHEEKO MOT CENTRE

#### Our Prices:

**MOT – Car: £50 (Max)**

**MOT – Motorcycle: £30 (Max)**

**Interim Service: £135 (Max)**

**Full Service: £200 (Max)**

**Air Conditioning - R134A: £60**

**Air Conditioning - R1234YF: £130**

**Brake Pad Replacement: £250 (Prices may Vary)**

For any other services, ask any of our workers for more information

This is evidence of the diary at the main desk in the MOT Centre where the staff record any booked appointments each day. The diary where all the records and details are recorded will give me an understanding of the type of information that must be inputted by the user and stored on the database in my new system. This evidence shows the flaws in their existing system as it suggests a lack of organisation and is highly unprofessional which makes errors much more likely.

This is evidence of a poster outside their MOT Centre which lists the prices of different services. This existing method seems quite vague in the manner in which prices are listed as prices can vary per vehicle and people need to get a breakdown of the prices for different vehicles. This is useful in helping me acknowledge the need to implement a place in the new system where customers can see the prices of different services depending on their vehicle and its parts.

new system where customers can see the prices of different services depending on their vehicle and its parts.

## 1.2.4 Customer Opinions

Date of Survey: 23/07/2020

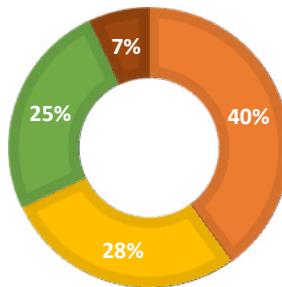
Place of Survey: Cheeko MOT Centre

### Questions Asked to Customers:

1. What key difficulties do you feel exist in booking appointments at this MOT Centre?

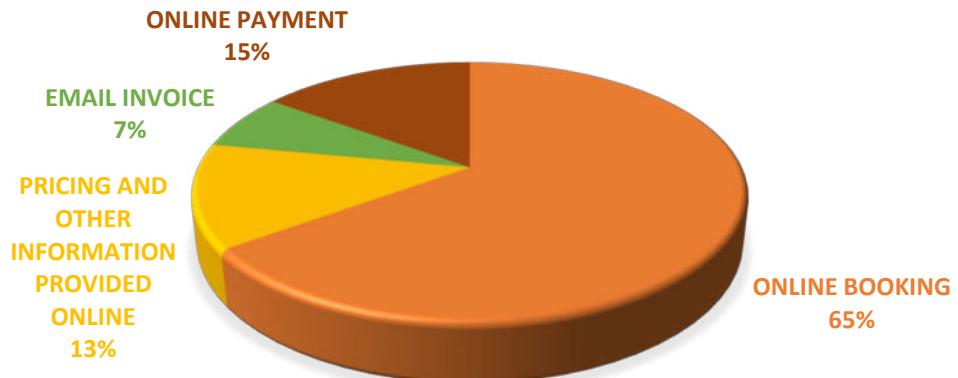
### KEY LIMITATIONS IN EXISTING BOOKING SYSTEM

■ Having To Come In Person      ■ Calling On The Phone  
■ Lack Of Booking Evidence      ■ Overlapping Of Appointments



2. How do you think the process of booking and other common issues faced can be addressed and fixed?

### POSSIBLE SOLUTIONS TO ISSUES FACED IN BOOKING AND OTHER ISSUES



- What features would you be looking for in an online booking system to have if created?

## KEY FEATURES CUSTOMERS WANT IN AN ONLINE BOOKING SYSTEM

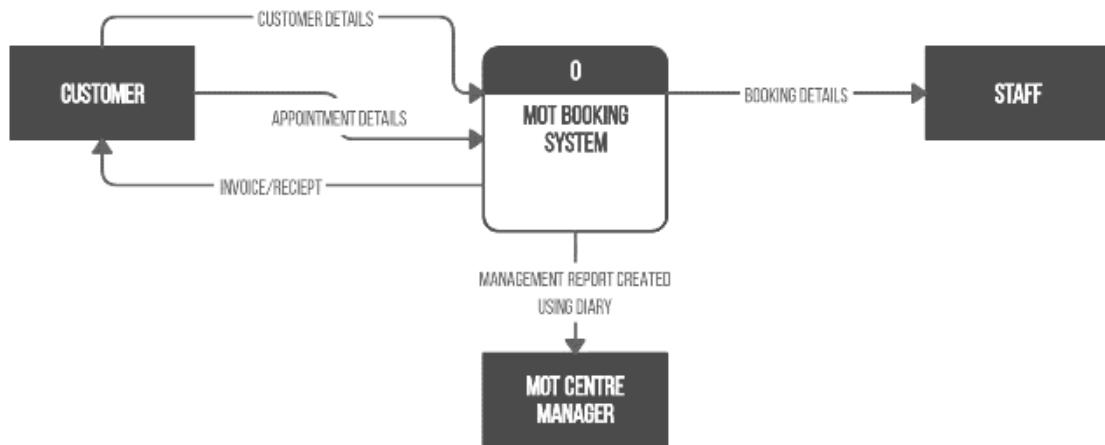
- Online Payment
- Simple And Quick Bookin Process
- Choose Service and Date/Time
- Information About Services and Pricing



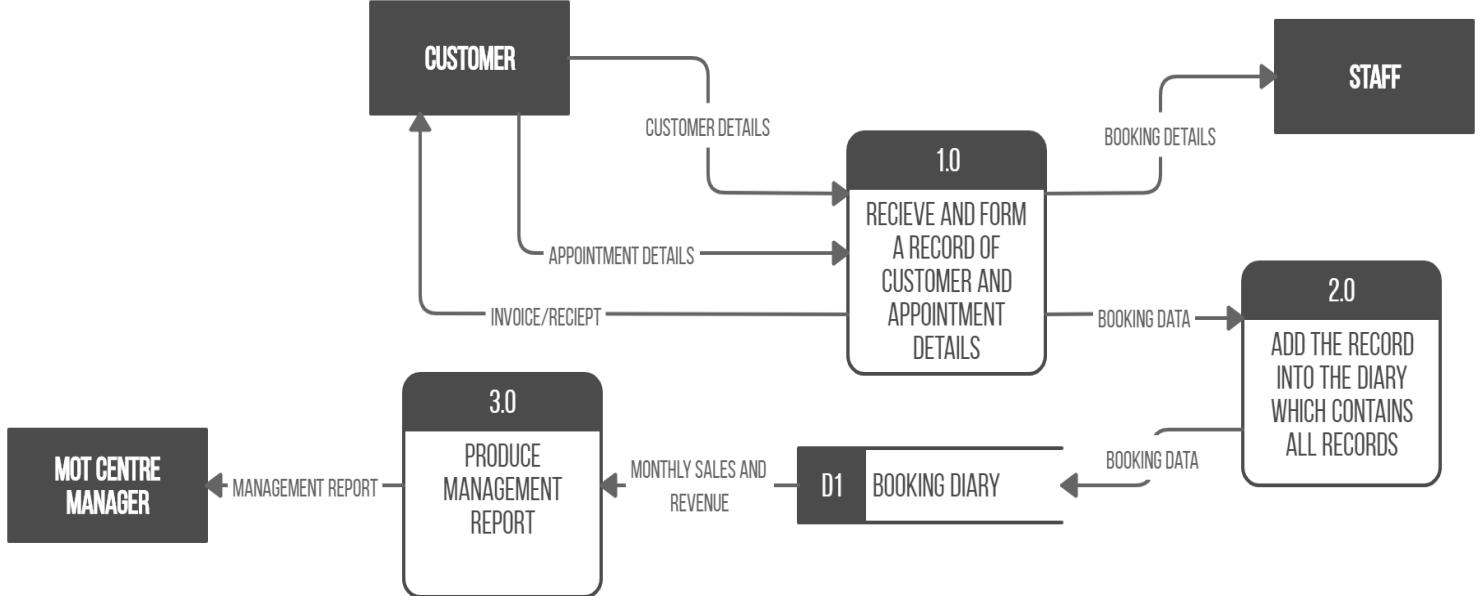
From this short survey, I have gained an understanding that the overwhelming majority find the lack of an automated booking system a major problem as well as some other issues such as lack of customer knowledge e.g. pricing, what the service includes. I have also obtained greater clarity on what customers look for in an online booming system through Question 3. Therefore, I will be aiming to create a system which specifically targets the issues faced by the customers to increase the productivity and efficiency of the MOT Centre which will be of great benefit to both the business and customers.

### 1.2.5 DFD Of Current System

#### Level 0



## Level 1



### 1.2.6 Data Sources and Destination of Existing System

Data	Explanation	Source	Destination
Customers' Personal Details	This is recorded into their diary with information such as name, email and phone number.	Customer	Diary
Appointment Details	This is also recorded in their diary with information such as car registration number, service type, time and price.	Customer	Diary
Types and Prices of Services	The customer can see the types of services that are offered and their cost	MOT Centre	Poster/Leaflet
Payment	The payment at the end is handed via card or cash after completion of service	Customer	Staff

## 1.3 E-R Diagram and Description of Current and New System

### 1.3.1 Limitations of Existing System

Currently, due to the complete process of booking appointments being performed manually, there are several limitations that exist such as:

1. The threat that if the diary was misplaced or damaged, the MOT Centre would completely lose track of past and upcoming appointments and customer details which would no longer be retrievable and the personal information of others would be at risk.

2. Due to their being no database to store the information, it can take a very long time for the staff to search, filter and contact any customer if needed
3. The revenue is calculated manually each day and every month so there is a high possibility of errors occurring which would mean an overvalued/undervalued total
4. Details of customer or appointment can be misread as it is all handwritten
5. Customers wishing to alter or cancel their appointment have to do so either though calling or visiting the MOT Centre which is inefficient and time consuming for them
6. Customers have a lack of information about the services and its prices until they visit in person as there is no information online regarding the prices charged by the MOT Centre
7. Only a few customers can book an appointment simultaneously as there is a limited number of staff and phones which may all become occupied making them unable to attend to all customers

### 1.3.2 Second Interview With Cheeko MOT Centre

**Date of Interview:** 23/07/2020

**Place of Interview:** Cheeko MOT Centre

**What are the key features you would like in your new system?**

We would like the new system to provide ease to our customers such as being able to book, change and cancel their appointments without the need of having to call or visit us in person. It would be nice for customers to be able to sign up and log in to their own personal account where they can see the complete history of their booked appointments and use their account to book new appointments.

**What benefits for the staff do you want to see in this new system?**

It would be a whole lot easier if all the information was to be stored on a database which would contain the information of customers and their appointments. This would allow our staff to easily filter and contact any customer rather than the method we currently use. A database would also eliminate the risk of us losing our records as it can be backed up whereas currently, we live with the constant risk of losing all the information.

**What other features would you want in the new system beside this?**

We often get customers a bit annoyed due to the lack of available information online about the prices and services so we would like to have a page dedicated to telling our customers of the type of services and what is included in them such as the difference between an interim service and a full service. We would also like a contact page for new customers to locate us easily and for people to send us any questions they have or any feedback for us.

When we met previously, you mentioned that you have an issue with the way you calculate the earnings manually, how would you like this issue to be solved?

We would like for the total price of an appointment to be displayed to the customer when they book the appointment and the total to be sent into our database which we could easily be able to find the total from then rather than having to count the total manually from our diary.

**Would you want the customers to pay online or on the day of their MOT or Service?**

It would be quite beneficial for us and the customer if they were able to pay online but this isn't an essential feature and this is optional if you wish to add it or not.

**Do you wish for your system to allow only one booking at a time or can more than one customer book at that same time slot?**

We want the system to allow only one customer to book a slot at a time to prevent overlapping of appointments because we only serve one customer at a time due to our low number of staff.

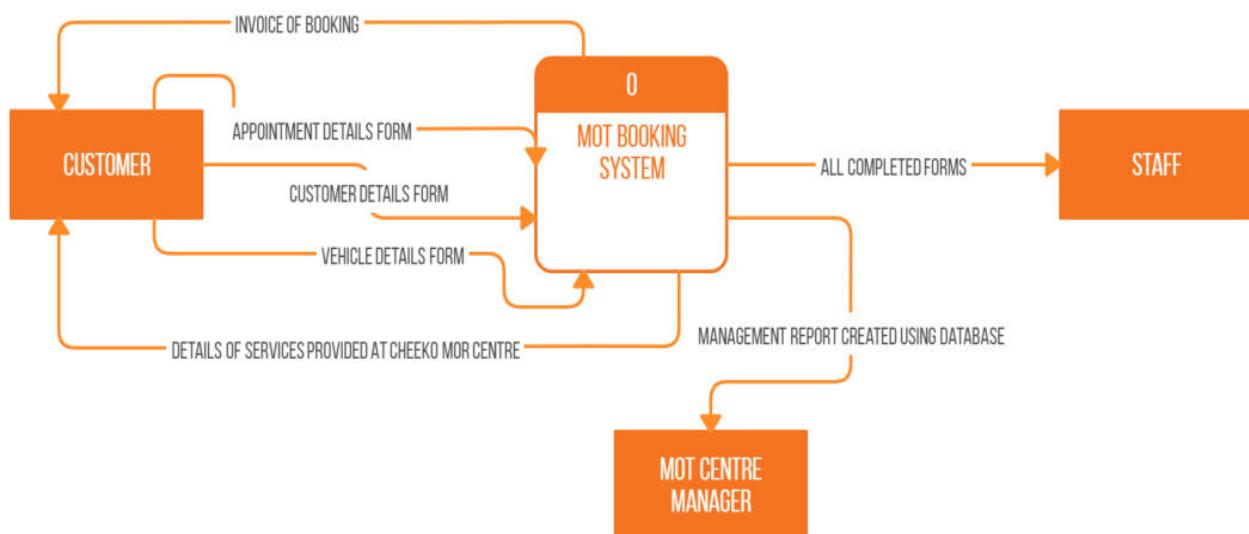
### 1.3.3 User Needs

From the interviews with Cheeko MOT Centre, I have gathered an understanding that users require the following:

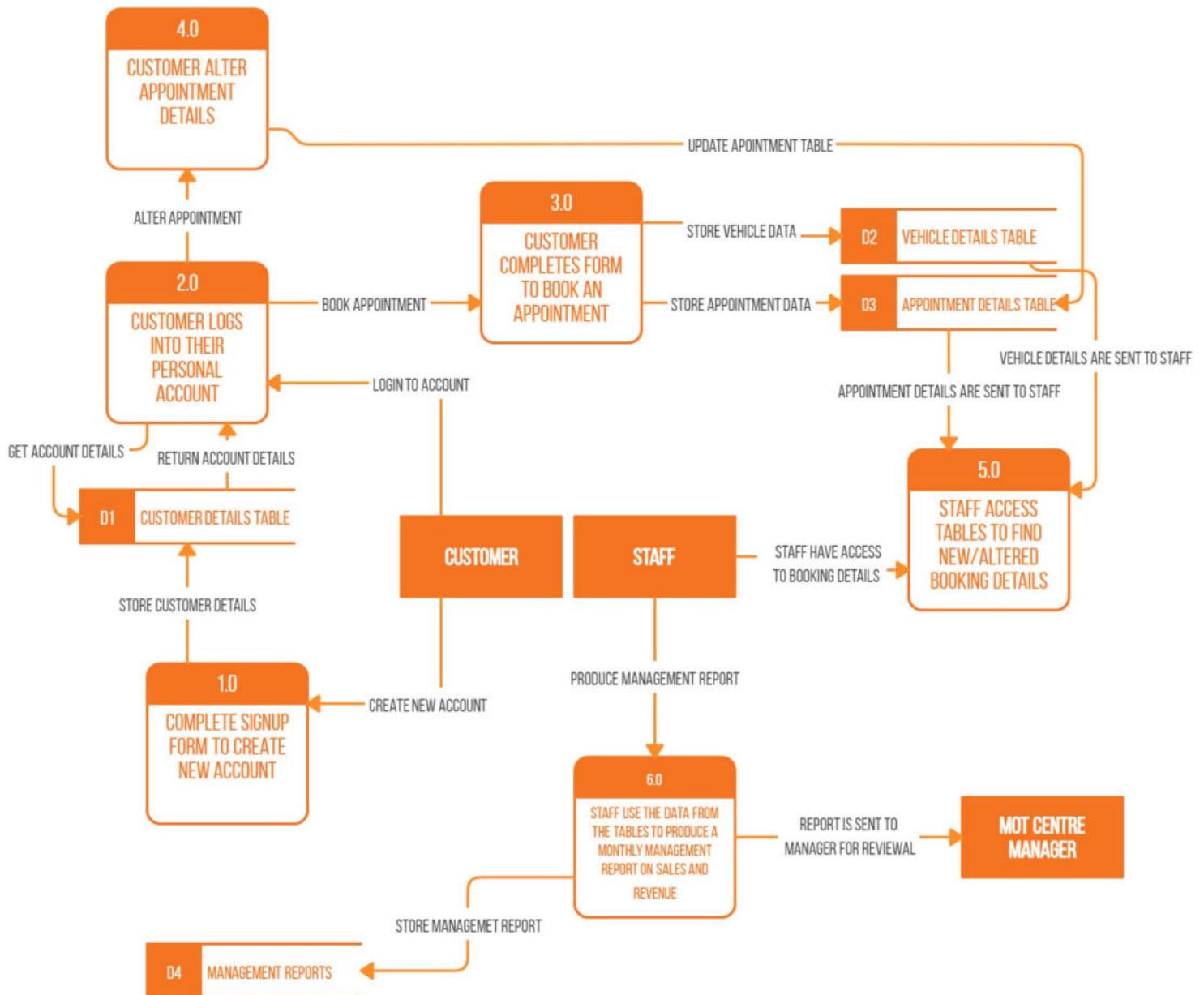
- Ability to sign up and log in to their own personal account
- Book a new appointment and choose the type of service through the new system
- Alter their appointment date and time if they wish through their account
- Cancel their appointment if they wish through their account
- Access to their invoice which mentions the service type and price
- A page regarding the different service types, what is included and their prices available to customers to allow them to choose what service type they wish to book
- A page for them to contact the MOT Centre with any feedback or questions with a google maps feature included to new customers to find the location with ease

### 1.3.4 DFD of New System

#### Level 0



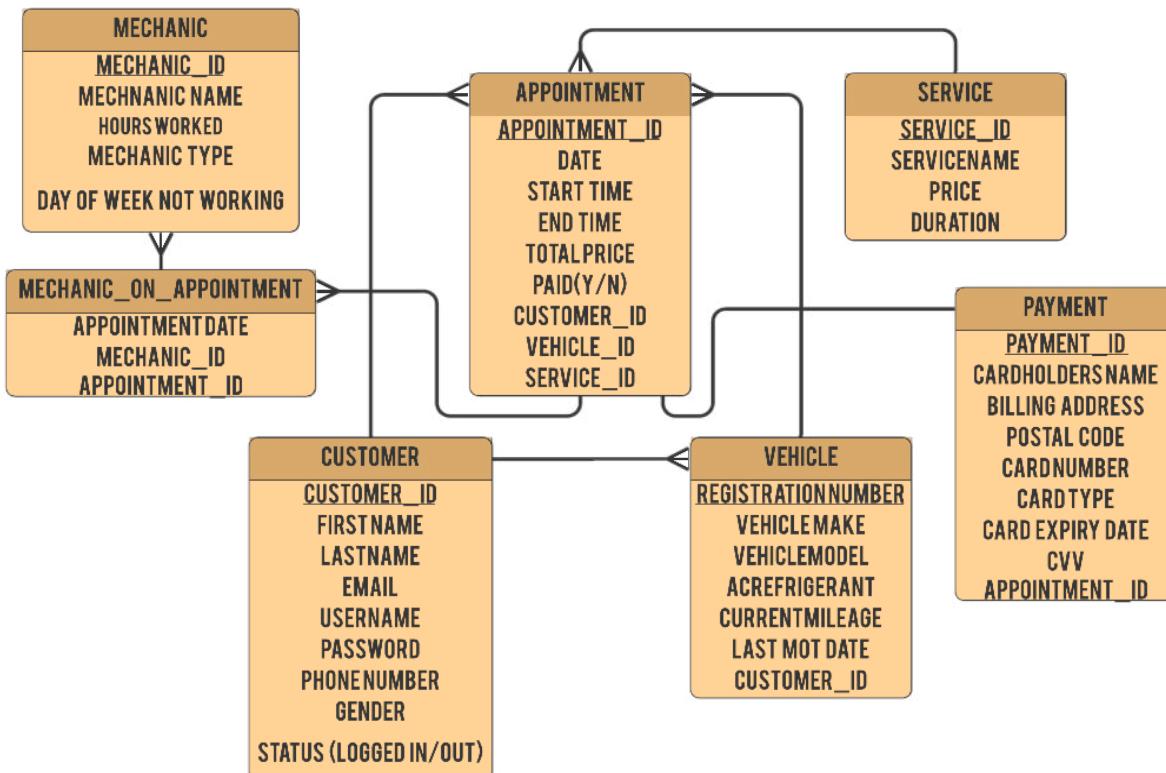
## Level 1



### 1.3.5 Data Sources and Destination of New System

Data	Explanation	Source	Destination
Customers' Personal Details	Customer details such as name, email and phone number will be stored in the Customer Details Table	Customer	Customer Details Table
Appointment Details	The details such as car registration number, service type and cost will be stored in Appointment Table	Customer	Appointment Table
Types and Prices of Services	There will be a page for customers to read which will give all the information about the service and prices	MOT Centre	Online
Payments	Customers will be able to pay for their appointment at the time of booking through the new system	Customer	Online
Management Report	This is a report which will be created using information from the database containing information such as number of monthly bookings and total revenue	Appointments Table	Manager

### 1.3.6 Entity Relationship Diagram of New System



One Customer can book **MANY** Appointments

One Customer can own **MANY** Vehicles

One vehicle can be owned by **ONE** Customer

One Vehicle can have **MANY** Appointments

One Service can be performed in **MANY** Appointments

One Appointment can only have **ONE** Service performed

A Mechanic can only be at **ONE** Appointment at a time

One appointment can have **MANY** Mechanics performing the Service

A payment can be made for only **ONE** Appointment

### 1.3.7 Analysis Data Dictionary

Due to their existing system lacking a database, all the information listed below is recorded manually into their diary:

Cheeko MOT Centre Customer and Appointment Details		
Data	Example	Data Type
Customer Name	John Smith	String
Customer Email Address	John.Smith1@example.com	String
Customer Phone Number	07805313162	String
Car Registration Number	FL65 KPR	String
Service Type	MOT	String
Date	29/05/2020	Date
Time	12:30	Time
Price	£50	Currency

### 1.3.8 Data Volumes

From my visits to Cheeko MOT Centre, I have gained the following understanding:

- There are more appointments booked for the weekend with an average of 5 per day whereas on weekdays, the average is 3 appointments per day
- A service takes on average 45 minutes to 2 hours maximum
- There are many different types of services offered by them, some include:
  1. MOT
  2. Air Conditioning
  3. Brakes
  4. Number Plates
  5. Battery Replacement
  6. Exhausts
  7. Interim Service (Lights, Instruments, Fluid Level, Tyre and Suspension Inspection)
  8. Full Service (Interim Service + Full Break and Engine Inspection)
- The most commonly booked service is MOT whereas the least common is Number Plates
- Customers have to make their booking 2-3 days prior to the appointment date they want

## 1.4 Constraints

### 1.4.1 Limitations

#### Hardware Constraints

The new proposed system would require customers and the staff to have hardware which meets the following minimum requirement:

- Intel Pentium 4 1.3Ghz processor
- 2GB RAM
- Keyboard and Mouse (Wired or Wireless)
- Router to connect to the Internet

As an alternative, the new system can also be accessed via mobile/tablet but the system won't be as efficient and effective on these devices as the system which I am designing is for computers and due to the limited time available, I will be unable to adapt the computer system for other types of hardware devices.

#### Software Constraints

The new proposed system would require customers and the staff to have software which meets the following minimum requirement:

- Windows 7 or Later
- Web Browser e.g., Google Chrome, Microsoft Edge, Firefox etc.
- MySQL (Requirement for Staff Only)

#### Time Constraints

The deadline for this project is before the end of April 2021. Therefore, in this limited time frame given to me, the system must be fully designed, programmed, tested and the database created in order for it operate and allow the customers of Cheeko MOT Centre to book appointments.

#### User's Knowledge of IT

The workers and manager at Cheeko MOT Centre have reasonably good computer skill, for example, they are able to navigate themselves through websites, use word processors, print documents with a few of them also having basic knowledge on creating spreadsheets and a relative basic concept on dealing with databases.

The customers aren't required to have an advanced on the use of computers as they will be able to manage with basic skills. Also, I intend to create a system which is user friendly with a simple interface to ensure that the system will target a larger audience so most users can use all the features in the new system with ease. However, the customers must have a general understanding on completing online forms and creating an account as these are the essential features which will allow customers to book appointments at Cheeko MOT Centre.

## Who will be allowed to use the various parts of the System?

The staff and manager will have access to both the website and database which will be essential for them to look at customer details and scheduled appointments to plan in advance and will be useful for them to create business reports easily by tracking the number of bookings and revenue through the database.

Customers will only have access to the website who can create their own personal account to book, modify and cancel their appointment which will be inserted/updated in the database that can only be accessed by the staff and manager.

## 1.5 Objectives

### General Objectives

The aim of the new system is to allow customers of the MOT Centre to book appointments through the use of a website which will eliminate some of the issues existing in their current system which causes it to be inefficient. Therefore, the new system will save the time and solve the problems faced by customers by allowing them easy access through our website. Therefore, the proposed system must:

1. Be efficient to reduce the time and issues faced in booking appointments
2. Be secure to prevent the system being misused or damaged by an external threat
3. Allow users to book only one future appointment at a time
4. Prevent two different users from booking an appointment at the same time slot
5. Enhance customer knowledge on the different types and prices of services offered
6. Have a user-friendly interface to assist the customers
7. Assign a mechanic to an appointment based on their availability on that specific day
8. Be fully developed, tested and functional before the deadline

### Specific Objectives

1. Homepage where users can navigate themselves to different parts of the website with a simple yet polished layout and a table with the MOT centres time schedule.
2. A page which contains all the information on the types of services, the cost of each and why the service is required
3. The system should have a contact page for users which should contain:
  - a. Google Maps location of the MOT Centre
  - b. Contact details of the MOT Centre
  - c. A form for users to send any feedback and question
4. Prevent unauthorised access into the accounts of users through the use of a secure login system with a ReCaptcha to ensure the user isn't a robot
5. A Signup system to allow users to register an account after inserting the following details:
  - a. Ask for First and Last Name
  - b. Ask for Email Address
  - c. Ask for Phone Number
  - d. Ask for Gender
  - e. Create a Username and Password
  - f. Prevent a Username or Email being used more than once

- g. Allow the user to change Username, Password and Email
- 6. All forms should use validation to ensure the user inputs are valid using the following checks:
  - a. Length Check
  - b. Presence Check
  - c. Format Check
  - d. Duplicate Entry Check
- 7. While inserting inside the database table the customer details when a new account is created, the password must be encrypted to ensure security and protection of the users details
- 8. An interface that allows for the user to access the following:
  - a. Register a Vehicle
  - b. Edit and delete the Vehicle
  - c. Book an appointment
  - d. Choose date/time/ service type of service of appointment
  - e. View history of all booked appointment
  - f. Alter their appointment
  - g. Cancel their appointment
  - h. Access and modify their account details
- 9. Once an appointment is booked, a dynamic invoice should be produced for the appointment containing payment and appointment details
- 10. The system should allow the manager to:
  - a. View appointments in the current month though the database
  - b. View the details of customers registered at the MOT Centre
  - c. View and insert the details of the mechanics employed at the MOT Centre
  - d. View, insert and delete the details of the services provided at the MOT Centre
  - e. Calculate revenue through the database
  - f. Produce a manager report that includes all the appointments and earning of the month
- 11. The system must prevent a customer from booking multiple appointments at the same time slot and user can only book one appointment at a time while also prevent them from booking an appointment for a date in the past
- 12. The website must connect to a database to allow data to be inputted, selected, updated and deleted from the following tables:
  - a. Customer Details Table
  - b. Vehicle Details Table
  - c. Appointment Details Table
  - d. Payment Details Table
  - e. Mechanics Details Table
  - f. Service Details Table
- 13. The system should be able to do the following from the database:
  - a. Filter Data
  - b. Search Data
  - c. Order Data
- 14. The system must prevent SQL Injection to prevent the database from being destroyed

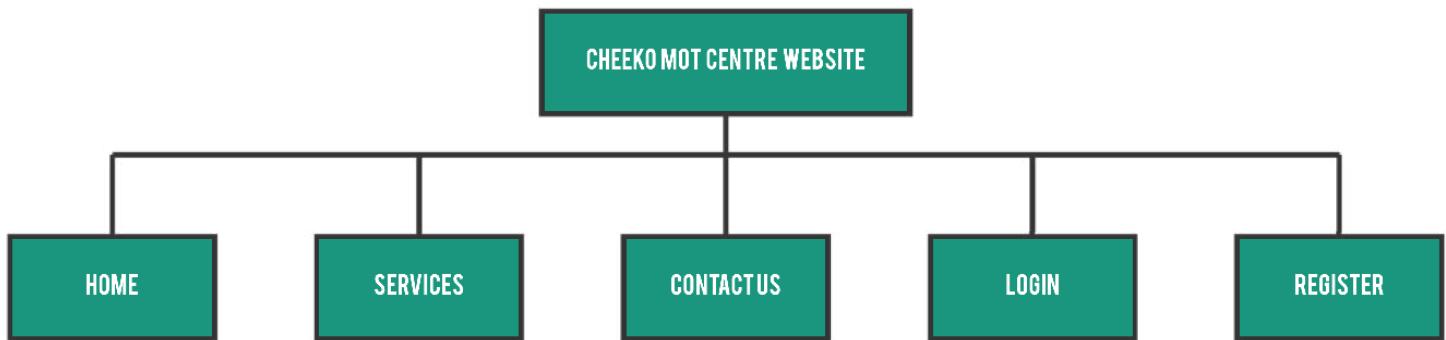
## 2 DESIGN:

### 2.1 Overall System Design

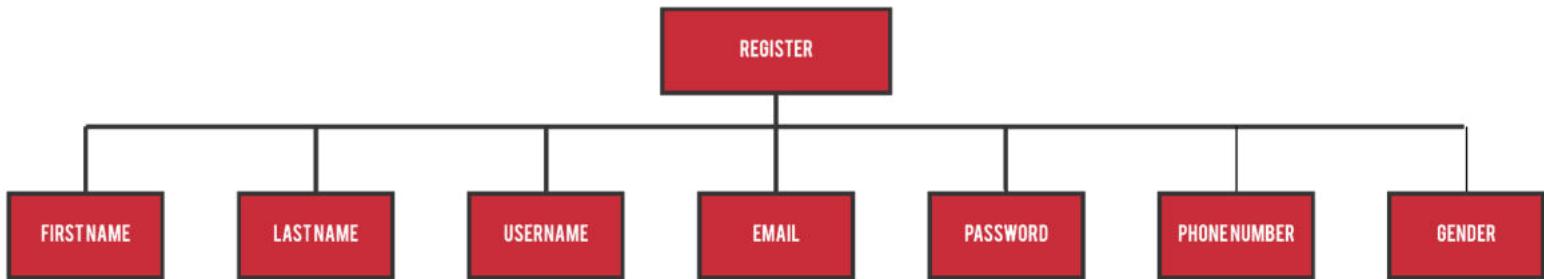
Input	Process
<ul style="list-style-type: none"> <li>First Name</li> <li>Last Name</li> <li>Username</li> <li>Email</li> <li>Password</li> <li>Phone Number</li> <li>Gender</li> <li>Vehicle Make</li> <li>Vehicle Model</li> <li>Registration Number</li> <li>AC Refrigerant</li> <li>Date of Last MOT</li> <li>Appointment Date</li> <li>Appointment Time</li> <li>Service Type</li> <li>Payment Details</li> </ul>	<ul style="list-style-type: none"> <li>Create New Account</li> <li>Login to your Account</li> <li>Validate Login Credentials through a Database</li> <li>Edit Account Details</li> <li>Register Vehicle to your Account</li> <li>Update Vehicle Details</li> <li>Book New Appointment</li> <li>Update Appointment Details</li> <li>Cancel Appointment</li> <li>Pay for Appointment (Optional)</li> <li>Send Invoice and Confirmation Email when Appointment is booked</li> <li>Create a Report (Monthly)</li> </ul>
Storage	Output
<ul style="list-style-type: none"> <li>Customer Details Table - <ul style="list-style-type: none"> <li>CustomerID</li> <li>First Name</li> <li>Last Name</li> <li>Username</li> <li>Email</li> <li>Password</li> <li>Phone Number</li> <li>Gender</li> <li>Status (Online/Offline)</li> </ul> </li> <li>Vehicle Details Table - <ul style="list-style-type: none"> <li>Vehicle Make</li> <li>Vehicle Model</li> <li>Registration Number</li> <li>AC Refrigerant</li> <li>Date of Last MOT</li> </ul> </li> <li>Appointment Details Table - <ul style="list-style-type: none"> <li>AppointmentID</li> <li>Appointment Date</li> <li>Appointment Start/Finish Time (2 Rows)</li> <li>Total Price</li> <li>Paid (Y/N)</li> </ul> </li> <li>Mechanic Details Table - <ul style="list-style-type: none"> <li>MechanicID</li> <li>Mechanic Name</li> <li>MechanicType</li> <li>Hours Worked</li> </ul> </li> <li>Services Details Table - <ul style="list-style-type: none"> <li>ServiceID</li> <li>Service Name</li> <li>Service Price</li> </ul> </li> <li>Payment Details Table - <ul style="list-style-type: none"> <li>PaymentID</li> <li>CardholderName</li> <li>Card Number</li> <li>Card Type</li> <li>Expiry Date</li> <li>Billing Address</li> <li>CVV</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>View Account Details</li> <li>View Vehicle Details</li> <li>View Appointment Details</li> <li>View Appointment Price</li> <li>Calculate Total Revenue (Monthly)</li> <li>Create a Report (Monthly)</li> </ul>

## 2.2 Modular Design

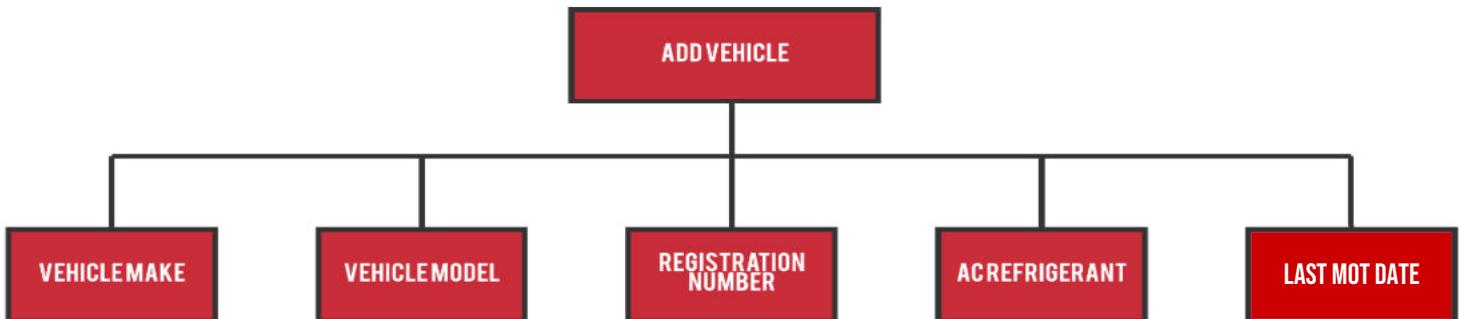
Below is a decomposition of the sections in the website which everyone will have access to, regardless of whether they have created an account or not.



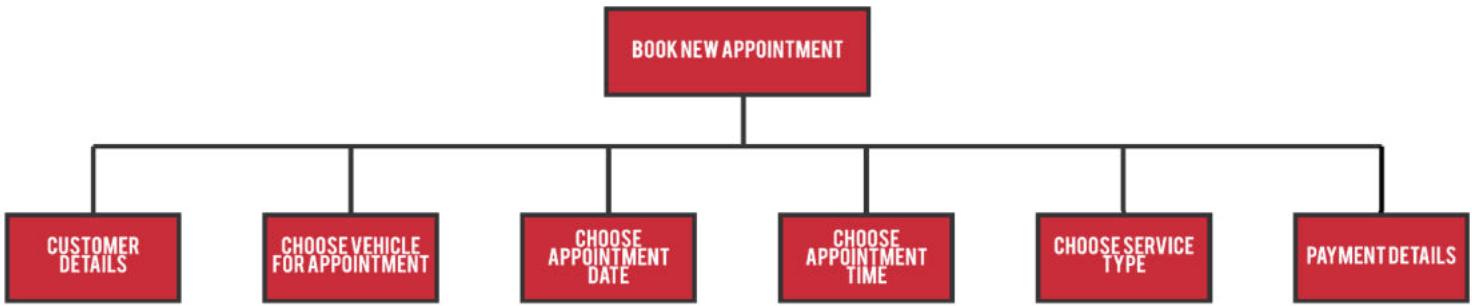
In order for a customer to book an appointment, they will have to create an account by filling in their personal details as illustrated below. Alongside this, there will be validation to ensure that the user inputs are valid and in the correct format.



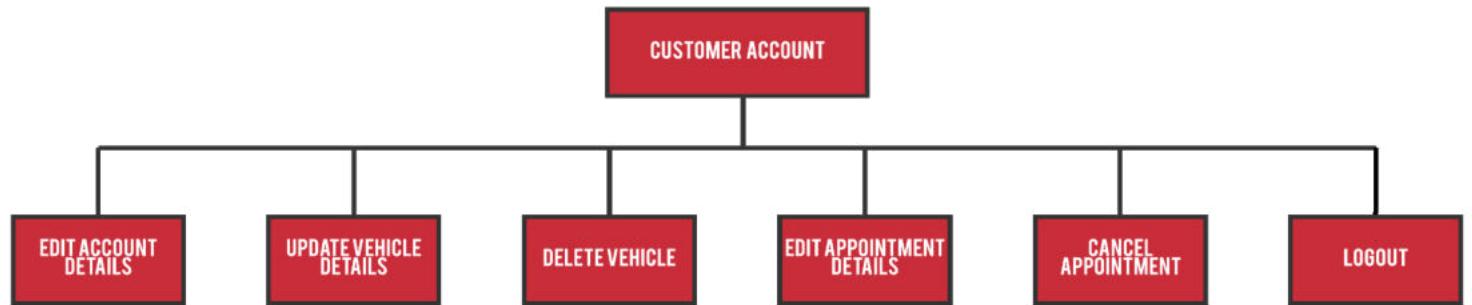
Once the customer has logged in, they can register their vehicle to their own account and some details can also be updated by the customer when they wish.



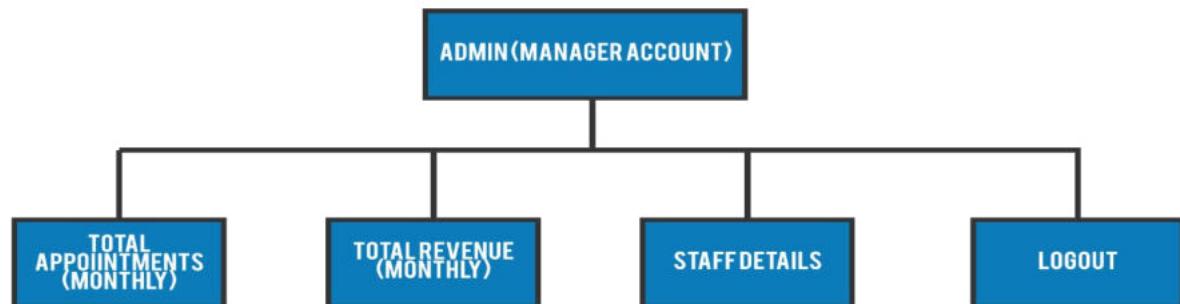
After the user has registered their vehicle to their account, they will be able to book a new appointment by completing a multi-step form. As they will be logged into their account, they won't have to enter their personal details as it will be done automatically.



Through the customer's account portal, they will have access to these facilities mentioned below so they can alter or delete the details according to their preference.



The manager will have a special account, only accessible to them, where they will see all the appointments booked in any month and find the total revenue earned in that specific month. They will also be able to see all the staff they have employed and the number of appointments they have performed in.



## 2.3 Definition of Data Requirements

CUSTOMER DETAILS TABLE					
Field Name	Sample Data	Data Type	Validation	Description	Key Field (PK/FK)
CustomerID	1	AutoNumber	None	ID to uniquely identify Customer	PK
First Name	John	Varchar	Presence Check	-	-
Last Name	Smith	Varchar	Presence Check	-	-
Username	John_Smith1	Varchar	Check for Existing Username	-	-
Email	JohnSmith1@gmail.com	Varchar	Format Check	Email has to be in correct format	-
Password	Smith_UK1985	Varchar	Check if Passwords Match	User has to confirm password by re-typing	-
Phone Number	07536166142	Char	Presence Check/Length Check	Phone Number of Customer	-
Gender	Male	Varchar	None	-	-
Status	Online	Char	None	When the user signs in, the status will automatically change to Online	-

VEHICLE DETAILS TABLE					
Field Name	Sample Data	Data Type	Validation	Description	Key Field (PK/FK)
Registration Number	OE08KSO	Varchar	Presence Check/Length Check	Uniquely identifies the vehicle being registered	PK
Vehicle Make	Toyota	Varchar	None	-	-
Vehicle Model	Prius	Varchar	None	The Vehicle Model will be filtered depending on the Vehicle Make selected	-
Current Mileage	57525	Integer	Presence Check/Length Check	Current Mileage must be between 0 - 999999	-
AC Refrigerant	R134A	Varchar	None	-	-
Last MOT Date	2020-09-07	Date	None	Date cannot be in future	-
CustomerID	1	AutoNumber	None	FK to identify who is the Vehicle's owner	FK

## APPOINTMENT DETAILS TABLE

Field Name	Sample Data	Data Type	Validation	Description	Key Field (PK/FK)
AppointmentID	1	AutoNumber	None	ID to uniquely identify an Appointment	PK
Appointment Date	2020-09-01	Date	Presence Check	Date cannot be in the past or on Sunday since they are closed	-
Appointment Start Time	15:30	Char	Presence Check	Starting time must be within the range of operating hours	-
Appointment End Time	16:30	Char	Presence Check	Ending time must be within the range of operating hours	-
Total Price	£52.50	Decimal	-	Automatically calculated based on selected service	-
Paid	1	Boolean	-	Since payment online is optional, if the user does pay, the value 1 (Yes) will be inserted to the database	-
ServiceID	MOT	AutoNumber	-	Only one service can be selected per appointment	FK
CustomerID	1	AutoNumber	-	ID to identify which customer has booked the appointment	FK
Registration Number	OE08KSO	Varchar	Presence Check/Length Check	Uniquely identifies the vehicle being registered	FK

## SERVICES TABLE

Field Name	Sample Data	Data Type	Validation	Description	Key Field (PK/FK)
ServiceID	1	AutoNumber	-	ID to uniquely identify the Service	PK
Service Name	Full Service	Varchar	-	-	-
Service Price	£120	Money	-	Each service is assigned a price	-
Duration (Minutes)	55	Integer	-	This will be used to calculate the total time length of the appointment	-

## MECHANIC DETAILS TABLE

Field Name	Sample Data	Data Type	Validation	Description	Key Field (PK/FK)
MechanicID	1	AutoNumber	-	ID to uniquely identify Mechanic	PK
Mechanic Name	John Smith	Varchar	-	-	-
Mechanic Type	MOT	Varchar	-	This field will be used to record the type of mechanic they are/ what they specialise in. This will be used to assign a mechanic to an appointment	-
Hours Worked	35	Integer	-	Used to record the length of time the mechanic has worked	-
Day of Week Not Working	3	Integer	-	Stores the day of the week where 1=Sunday, 2=Monday, 3=Tuesday etc. which the Mechanic is not working	-

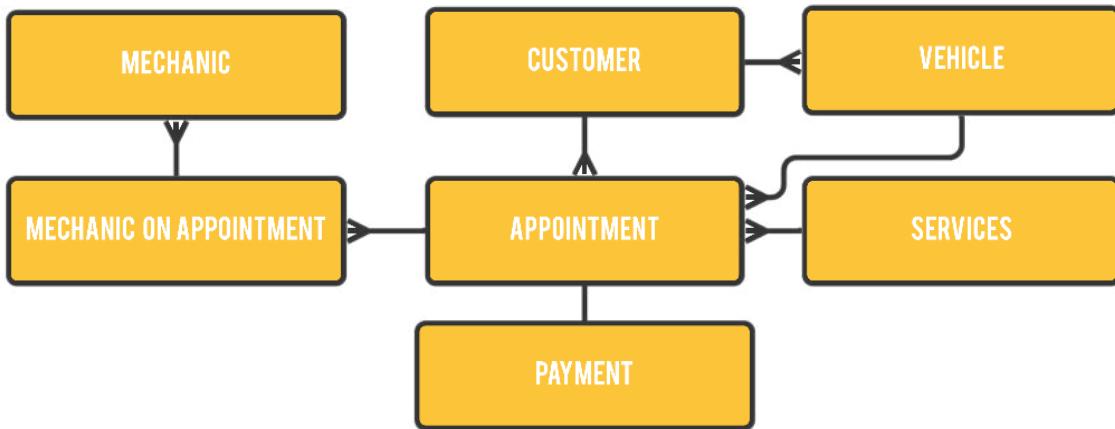
## PAYMENT DETAILS TABLE

Field Name	Sample Data	Data Type	Validation	Description	Key Field (PK/FK)
PaymentID	1	AutoNumber	-	ID to uniquely identify a Payment	PK
Cardholders Name	John Smith	Varchar	Presence Check	-	-
Billing Address	10 Downing Street	Varchar	Presence Check	-	-
Postal Code	SW1A 2AA	Varchar	Presence Check/ Length Check	Postal Code must be in correct format	-
Card Number	4921819482912843	Char	Presence Check/ Length Check	Card number must be 16 digits	-
Card Type	VISA	Varchar	-	Specifies the card provider	-
Expiry Date	09/2002	Varchar	Presence Check	Card mustn't be expired	-
CVV	903	Char	Presence Check/ Length Check	CVV must be 3 digits	-
AppointmentID	1	AutoNumber	-	ID to identify which appointment the payment is for	FK

## MECHANIC ON APPOINTMENT TABLE

Field Name	Sample Data	Data Type	Validation	Description	Key Field (PK/FK)
AppointmentDate	2020-12-05	Date	-	Identifies the date the appointment is booked for	-
AppointmentID	1	AutoNumber	-	ID to uniquely identify the appointment	FK
MechanicID	1	AutoNumber	-	ID to uniquely identify the mechanic	FK

## 2.4 Entity-Relationship Diagram



A Customer can own **MANY** Vehicles

A Vehicle can belong to only **ONE** Customer

A Customer can book **MANY** Appointments

A Vehicle can have **MANY** Appointments

In an Appointment, only **ONE** Service can be performed on only **ONE** Vehicle

A Service can be performed in **MANY** Appointments

A payment can be made for only **ONE** Appointment

An appointment can have **MANY** Mechanics performing the Service

A Mechanic can be at only **ONE** Appointment at a time

Customer Details (CustomerID, First Name, Last Name, Username, Email, Password, Phone Number, Gender, Status)

Vehicle Details (Registration Number, Vehicle Make, Vehicle Model, AC Refrigerant, Current Mileage, Last MOT Date, **CustomerID**)

Appointment (AppointmentID, AppointmentStartTime, AppointmentEndTime, Appointment Date, Total Price, Paid(Y/N), **ServiceID**, **CustomerID**, **Registration Number**)

Services (ServiceID, Service Name, Price, Duration)

Mechanic (MechanicID, Mechanic Name, Mechanic Type, Hours Worked)

### Keys:

- The fields that are underlined are Primary Keys
- The fields that are **bold** are Foreign Keys

Payment (PaymentID, Name on Card, Card Number, Card Type, Sort Code, CVV, Billing Address, Expiry Date, **AppointmentID**)

Mechanic\_On\_Appointment (AppointmentDate, **AppointmentID**, **MechanicID**)

## 2.5 Security and Data Integrity

To begin with, in order for the website to connect to my database, login credentials will be required to prevent unauthorised access and keep sensitive data secure from any third party; this database will connect to our website through a PHP script.

Data inputted by users, either inside forms or browsers address bar, will be checked to prevent SQL injection or any statements that may pose a threat to the database or undermine the security of our website.

When the customers will be submitting these forms, there will be several validations checks to ensure their input is reasonable e.g., format checks of email and vehicle registration number, presence check in name and length check of phone number.

For data that is entered in forms to be inserted into the database, I will use PHP scripts to POST the data from the HTML Form to the PHP file to ensure the information is invisible to others to keep as all inputs will be embedded within the HTTP request so that they are unaware of how their data is being processed as that is abstracted away from the end-user. I will therefore try my best to refrain from using the GET superglobal variable since the information will be visible to everyone which makes it less secure and there is a limit on the amount of data that can be sent (2000 characters) whereas POST has no limit.

Another form of security I will use is a .htaccess configuration file to hide the file extension from the user and replace it with a clean and compact URL instead.

When a user creates an account, I will design my system to encrypt sensitive information like the password by hashing it before it is stored in the Customer Details Table to ensure that a third party won't be able to enter the account of any customer even if they were to get access to the database as it would be in ciphertext form.

Also, to make sure that the user cannot access a certain page without logging in, such as the page to book appointment or registering your vehicle, I will use sessions and assign value to a variable once the user has logged in with valid credentials. This variable will be checked repeatedly in each page to see if it has been declared through the use of sessions and if declared, the user will be able to access the webpage, otherwise, they will be redirected to the login page which would therefore prevent unauthorised access into certain pages.

Finally, to ensure that a user cannot enter their account once they have logged out, I will destroy the session and unset all session variables which would prevent them from gaining access to those pages until they log in with correct credentials again.

## 2.6 General Design Concepts

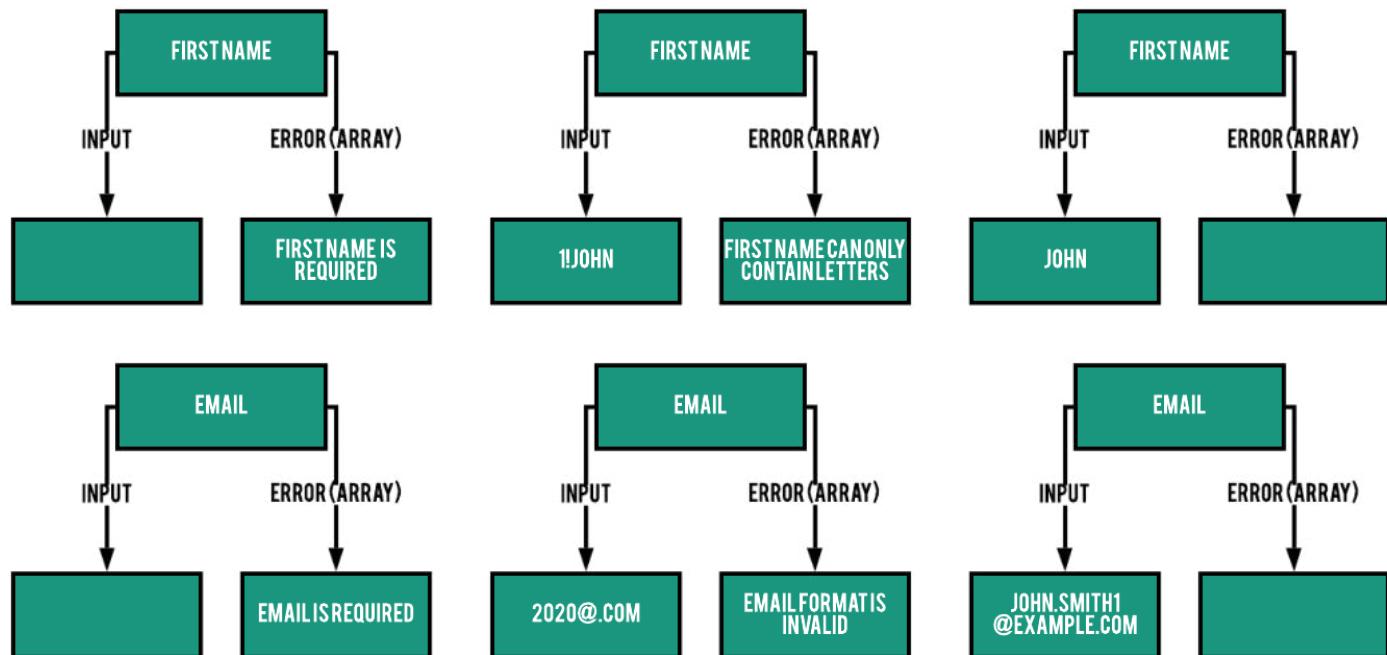
### Access to Pages

Above the HTML script of each page, I will add a PHP script that will check if the user has logged into their account or not and if they are accessing a page without logging in, e.g., Appointment Booking, they will be redirected to the login page. This will be made possible through the use of sessions in PHP to pass a variable from one page to another in the website.

### Array Structure

When a user inputs invalid information, I will output an error message to notify the user of their mistake through the use of arrays where the message will be stored and convert the array to a string to output it onto the page. Below shows an example of how the error message will be changed in the array depending on the input of the user and the type of validation check that will be in place e.g., presence check and format check.

#### EXAMPLE:



### Validation

For the validation of data, I will use the POST method to retrieve the input from the user, store them in variables and use the pre-existing functions in PHP to check if the input has any invalid characters, if it is empty or if its format is invalid. The use of PHP functions for validation will make my code more compact, easier to read, understand, debug for errors and less time consuming.

## 2.7 User Interface

### INTERFACE FOR ALL USERS

Title	Description	Complexity	Page Number
Home	This is the initial page the user will see when they enter our website. This will give a brief understanding of the company and will be the main page for users to navigate to other parts of the website through	Medium	32
Services	This page will be for users to gain an understanding of the type of services that are offered, their importance, what is included in them and their price. The purpose of this page is to enhance customer knowledge so they know what they are paying for	Medium	33
Contact Us	The purpose of this page will be to allow customers to give feedback based on the service they receive at Cheeko MOT Centre and contact details/map of the location will be present for users as some may not be aware of the area since they may come from a different town/city.	High	34-36
Login	Through this page, the user will be able to gain access to their account and services such as booking an appointment or registering your vehicle. The user will only be able to login once they have signed up. The login credentials will be verified via the database.	High	36-38
Sign Up	In this page, the user will enter their personal details to create a new account to enable them to have access to the online services. The details they input will be validated and then inserted into the database.	High	39-42

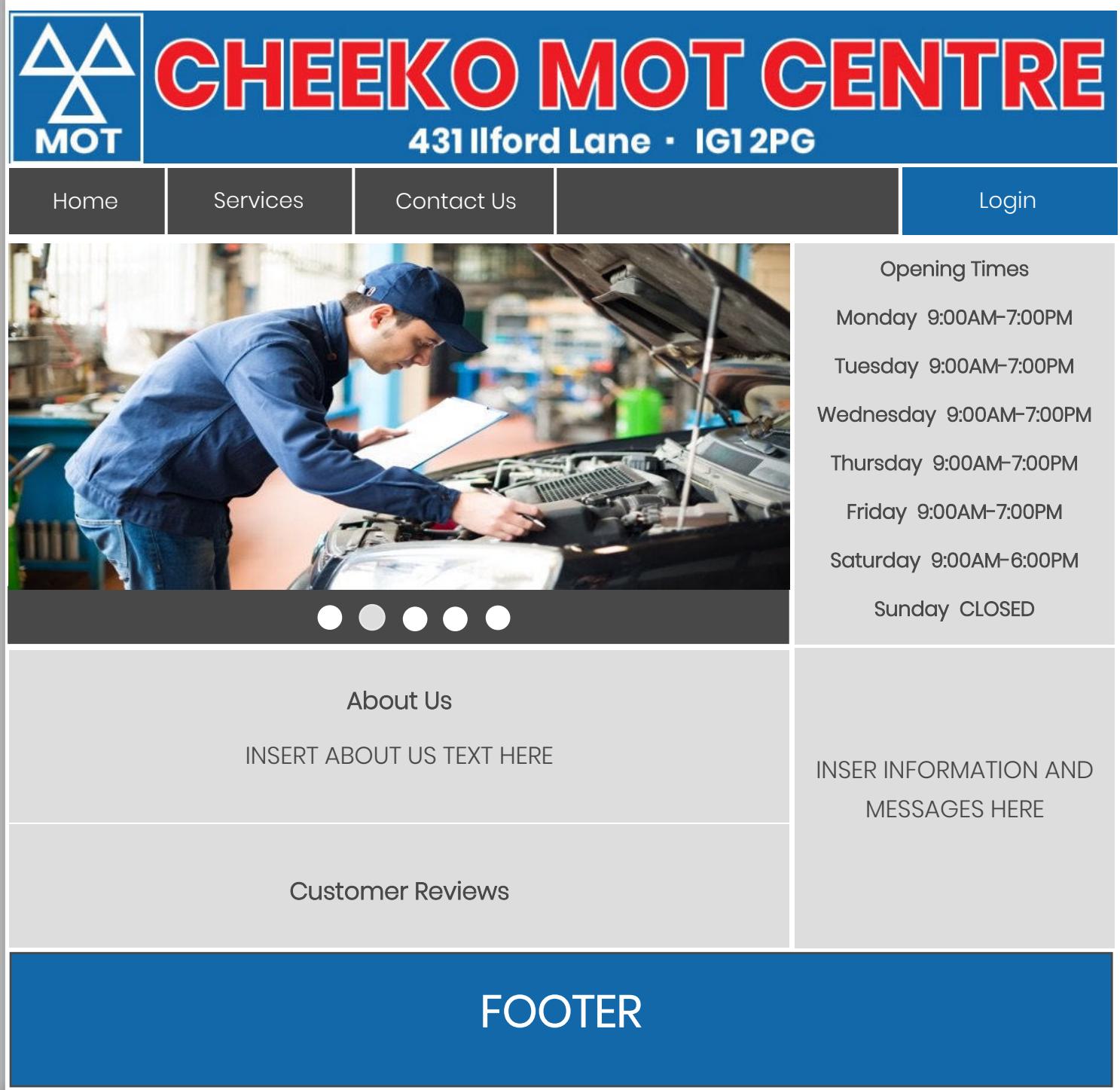
### INTERFACE FOR USERS WITH ACCOUNTS

Title	Description	Complexity	Page Number
Account	This page is the home of the account from where the user can view/update/insert their registered vehicles, book/update appointments and view payments made	Medium	43-46
Register Vehicle	Here, users will be able to add any vehicle they possess to their account by entering their vehicle details. This will make it easier for customers to book appointments and the mechanics will gain an understanding of the vehicle condition before the appointment.	High	46-50
Update Vehicle Details	This page will allow the user to update some details of their vehicle that may change e.g. mileage or registration number	High	50-53

Book Appointment	This page will be for the user to book a new appointment by selecting the date, time and service type as well as pay online (optional). The appointment details will then be inserted into the database	High	53-60
Booking Invoice	This page is an auto-generated dynamic PDF invoice produced through PHP where the user can view the details of the appointment they booked and payment details if the payment was made online and has a fully functioning QR code which uniquely identifies the appointment	High	60-61
Alter/Cancel Appointment	If the user wants to amend the appointment date/time or cancel their appointment, they will be able to through this page	High	62-67
Change Account Details	This page will allow user to alter their account details e.g., password and phone number	High	67-71
Manager Account	This will be an account for the manager here they will be able to see a report of the whole month e.g., total appointments, revenue. They will also be able to manage the mechanics and services such as delete them from the record and see statistics such as the hours a mechanic has worked at the MOT centre. Finally, they will be able to make calculations by inputting data e.g., corporate tax	High	71-73
Customer Details	From here, the manager can view details of the customers that have an account registered at the MOT centre	Medium	74-75
Services And Prices	From here, the manager can view, insert and delete the services provided at the MOT centre	Medium	75-77
Mechanic Details	The manager can see the statistics and other details of the mechanics that are employed at the MOT centre	Medium	77-78
Manager Report	This page is an auto-generated dynamic pdf report produced through PHP where the manager can view the appointments booked in the current month, the hours worked by the mechanics worked in the current month and the total/average revenue earned by the MOT centre	High	79-80

## 2.8 Sample of Planned Output Designs

### 1. Home



The image shows a sample of a planned output design for a website homepage. The header features a blue background with the 'MOT' logo on the left and the text 'CHEEKO MOT CENTRE' in large red letters, with the address '431 Ilford Lane · IG1 2PG' below it. A navigation bar with 'Home', 'Services', 'Contact Us', and 'Login' buttons is at the top. Below the header is a large image of a mechanic in a blue uniform and cap working on a car under the hood. A row of five circular navigation dots is at the bottom of this image. To the right of the image is a 'Opening Times' section listing days and hours: Monday 9:00AM-7:00PM, Tuesday 9:00AM-7:00PM, Wednesday 9:00AM-7:00PM, Thursday 9:00AM-7:00PM, Friday 9:00AM-7:00PM, Saturday 9:00AM-6:00PM, and Sunday CLOSED. Below this is a large empty box for 'About Us' content, with placeholder text 'INSERT ABOUT US TEXT HERE'. To the right of this box is another large empty box for 'Customer Reviews' content, with placeholder text 'INSER INFORMATION AND MESSAGES HERE'. At the bottom is a blue footer bar with the word 'FOOTER' in white.

#### Description

Above is a design of the Homepage I will create for the new system. The header has been designed through the use of Adobe Illustrator and I aim to continue to use this software to create my own personalised vector graphics that are both simplistic and aesthetically pleasant; I will also look to create these vector graphics to reflect the company and their business model (Vehicle Servicing and MOT). The navigation bar will be a dropdown for the service section to allow the user to navigate easily to a specific service type.

## 2. Services



# CHEEKO MOT CENTRE

431 Ilford Lane • IG1 2PG

Home Services Contact Us Login

### What is an MOT?

INSERT MOT DETAILS HERE

INSERT PICTURE  
HERE

### Air Conditioning Recharge and Service

INSERT AIR CONDITIONING AND SERVICES DETAILS HERE

INSERT PICTURE  
HERE

## FOOTER

### Description

This page will contain the information about the service types that are offered at Cheeko MOT Centre, their importance to vehicles, their prices and the consequences of not having them performed. The purpose of this is to enhance customer knowledge and for them to know what they are paying for and how much they are paying. Through the Service tab in the navigation bar, the user can go onto a specific service/repair they wish to read about and the system will redirect them to that exact paragraph rather than the user having to endlessly scroll till they reach that service which will increase user-ease.

### SQL Query for Services

**SQLServices** = SELECT \* FROM services

*This SQL Statement is used to get the details (Duration, Service Name, Price) for all the services*

### 3. Contact Us



Home Services Contact Us Login

EMBED GOOGLE MAPS  
LOCATION HERE

Phone Number: Insert Phone Number Here  
SMS: Insert SMS Number Here  
Email Address: Insert Email Address Here

LEAVE US YOUR FEEDBACK

Full Name

Email

Subject

Write Your Message Here...

Contact Us

FOOTER

#### Description

On the Contact Page, customers will be able to leave us feedback which will be forwarded to the company's email. This will be beneficial for the company to find new methods or alter existing methods to improve customer experience by hearing their opinion. Using Google Services, I will embed a Google Map with the location pinned on the MOT Centre for users to find the direction to the garage and this will be especially useful for those who are unaware of the local area as they may struggle to navigate to the location. The phone number and email address of the company will also be written if anyone wishes to use alternative methods to contact them other than leaving a message by filling the feedback form. Additionally, there will be links to the social media platforms of the MOT Centre for customers to contact them in other ways and receive any updates from the MOT Centre through the social media platforms e.g. if they are closed on a certain day

Variable	Description
Name	Stores the Full Name of the user
Email	Stores the Email Address of the user
Recipient	Stores the Email Address of the MOT Centre
Subject	Stores the Subject of the Message
FAQ	Stores the Message inputted the user
Errors	Array which stores all the error messages for each error that occurs in the form
AbusiveLanguageDetector	Array which stores abusive words that are searched for in the message and subject

### Pseudocode for Feedback Form

```

Errors = array()
Recipient = "cheeko.mot.centre.ilford@gmail.com"
AbusiveLanguageDetector = array("****", "****", "****") //The asterisks represent foul words that I have hidden in this document/
IF Contact Us is Clicked THEN
    IF Name is Empty THEN
        INSERT Into Errors "Full Name Is Required"
    ELSE
        Name = Name Input
        IF LastName Contains Special Characters or Number THEN
            INSERT Into Errors "Name Can Only Contain Letters"
        ENDIF
    ENDIF
    IF Email is Empty THEN
        INSERT Into Errors "Email Address Is Required"
    ELSE
        Email = Email Input
        IF Email Format Is Invalid THEN
            INSERT Into Errors "Email Address Format Is Invalid"
        ENDIF
    ENDIF
    IF Subject is Empty THEN
        INSERT Into Errors "Subject Is Required"
    ELSE
        Subject = Subject Input
        FOREACH AbusiveLanguageDetector As InvalidInput
            IF Subject Contains InvalidInput THEN
                INSERT Into Errors "Abusive Language Has Been Detected In The Subject"
            ENDIF
        ENDFOREACH
    ENDIF
    IF FAQ is Empty THEN
        INSERT Into Errors "Message Is Required"
    ELSE
        FAQ = FAQ Input
        FOREACH AbusiveLanguageDetector As InvalidInput
            IF FAQ Contains InvalidInput THEN
                INSERT Into Errors "Abusive Language Has Been Detected In The Message"
            ENDIF
        ENDFOREACH
    ENDIF
    IF Errors == 0 THEN
        IF (EMAIL SENT == TRUE) THEN
            DISPLAY "Thank You For Your Feedback. We Will Try Our Best To"
        ENDIF
    ENDIF
ENDIF

```

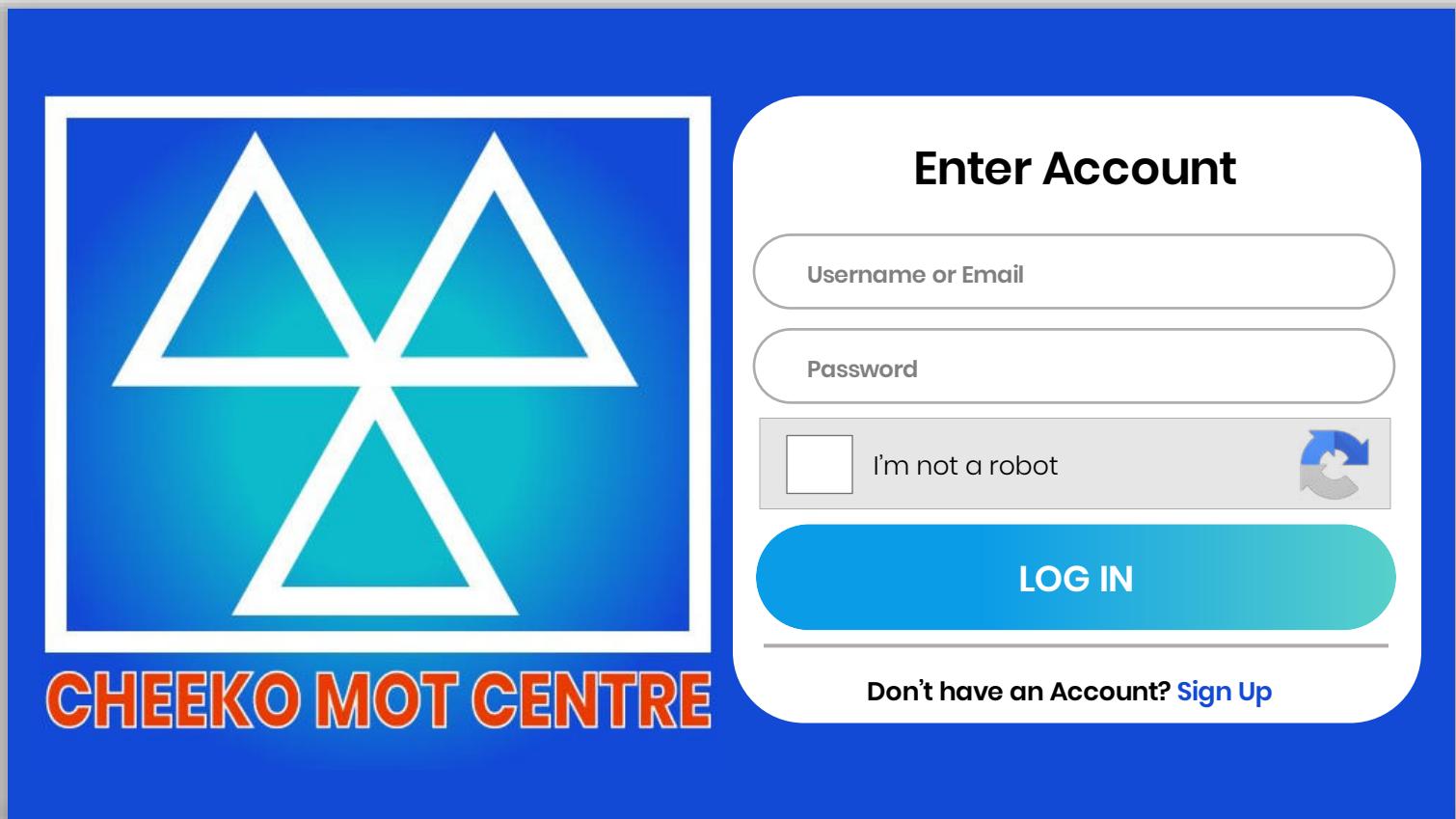
```

    Respond As Soon As Possible"
ELSE
    INSERT Into Errors "Failure In Sending Feedback. Please Try Again Later."
ENDIF
ELSE
    FOREACH Errors As ErrorMessage
        DISPLAY ErrorMessage
    ENDFOREACH
ENDIF
ENDIF

```

*Firstly, the input boxes will be checked to see if they are empty and if so, an error message will be inserted into an array and outputted to the user whereas if the values have been inputted, the Full Name will be checked for the presence of numbers and special characters, the email address will be checked if it meets the valid format and the subject and message will be validated to see if they contain any abusive language. If all the inputs are valid, through the use of an external PHP library, the email will be forwarded from the user to the MOT Centres email.*

#### 4. Log In

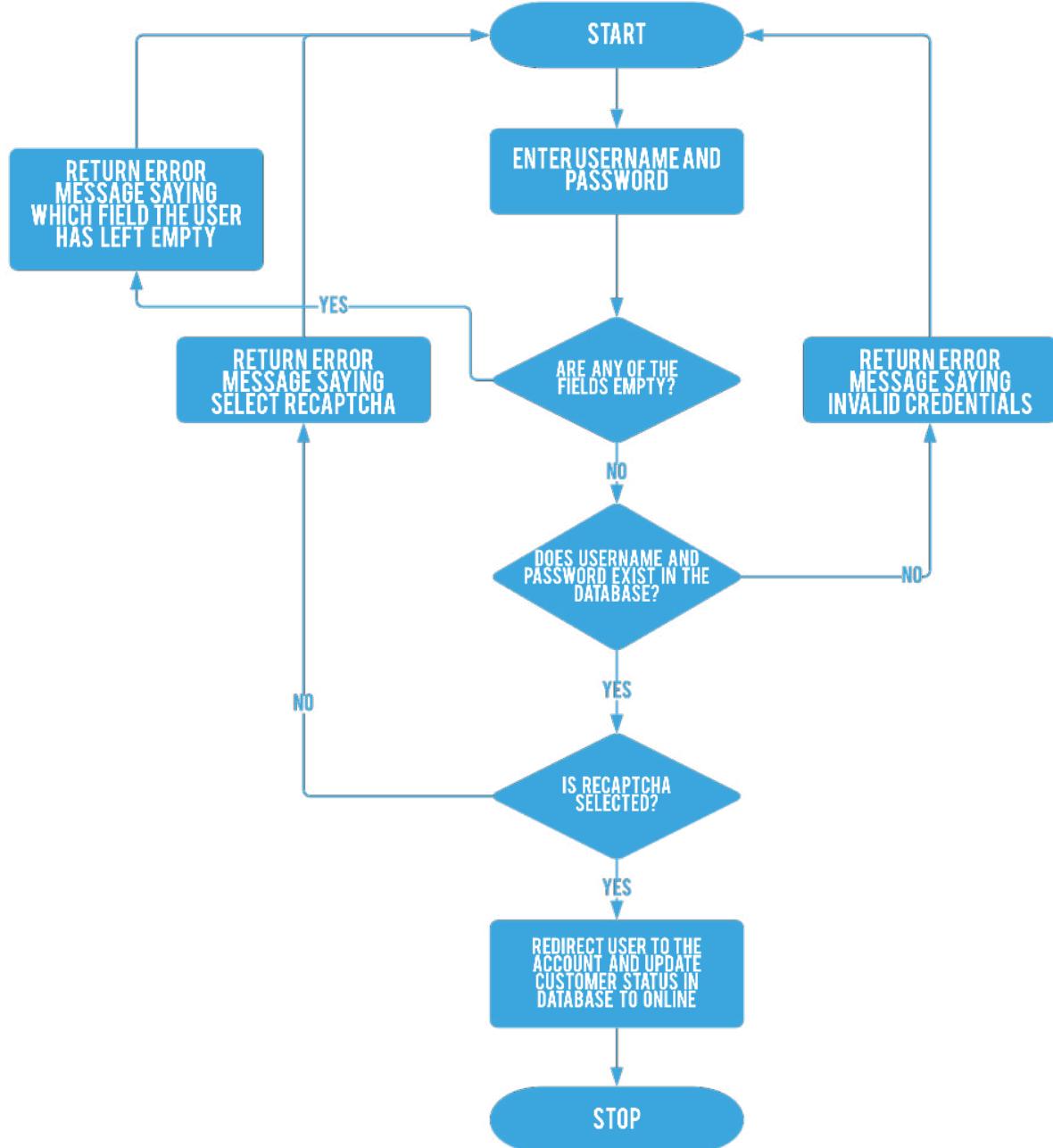


#### Description

On the Login Page, accountholders will be able to enter their account by inputting their username/email and password with these credentials being validated and checked if they exist in the Customer Details table. If they do, the user will be redirected to their account. However, if they don't, an error message will be displayed. With Google Services, I will implement ReCaptcha to verify the user attempting to log in is a human and not a robot. A hyperlink is also present as shown above for those who don't have an account to be redirected to the Signup Page.

Variable	Description
UsernameLogin	Stores the Username/Email inputted by the user
PasswordLogin	Stores the Password inputted by the user
LoginErrors	An array which stores any error messages
SQLFindAccount	Stores the SQL statement which is used to search for the users account using their login credentials
Status	Stores the SQL statement which updates the customer details table to show the user is online
SelectedRecaptcha	Checks if the user is a human through ReCaptcha before the user can log in by completing a task e.g., identifying photos that contain a specific object
Connection	Establishes a connection between the website and the database

Flowchart of the Login System



## SQL Query for Login Page

```
SQLFindAccount ="SELECT * FROM customerdetails WHERE Username='$UsernameLogin' OR Email='$UsernameLogin' AND Password='$PasswordLogin';"
```

*This SQL Statement checks if the inputted Username or Email exist in the database to see if the user has a registered account or not.*

```
Status = "UPDATE customerdetails SET Status='Online' WHERE Username='$UsernameLogin";"
```

*This SQL Statement changes the Status field for the user logging in to Online if the login credentials they have entered are valid.*

## Pseudocode for Login Page

Initialise Connection to Database

Open Connection to Database

LoginErrors = Array()

IF Login Is Clicked THEN

    UsernameLogin = Username/Email Input

    PasswordLogin = Password Input

    IF UsernameLogin is Empty THEN

        INSERT into LoginErrors "Username or Email is Required"

    ELSE IF PasswordLogin is Empty THEN

        INSERT into LoginErrors "Password is Required"

    ELSE

        SQLFindAccount (Query Above)

        IF Username = TRUE AND Password = TRUE THEN

            IF SelectedRecaptcha = TRUE THEN

                Status (Query Above)

                Redirect to Account

            ELSE

                INSERT into LoginErrors "ReCaptcha Must Be Selected"

            ENDIF

        ELSE

            INSERT into LoginErrors "Username/Email or Password is Incorrect"

    ENDIF

    IF LoginErrors > 0 THEN

        FOREACH LoginErrors as Error

            DISPLAY Error

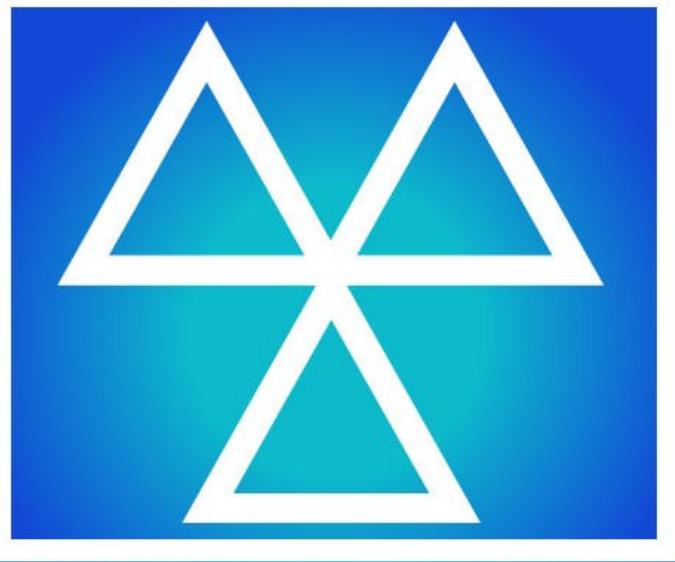
        ENDFOREACH

    ENDIF

ENDIF

*The users inputted Username/Email and Password will be checked if they are empty or not. If they are empty, an error message will be stored into the LoginErrors array. Through the use of Google Services, I will be able to implement ReCaptcha into my program as an additional layer of security to prevent any robots attempting to enter an account which would verify that the user is a human. If not, the login credentials will be checked to see if they exist in the database through the use of an SQL Query and if they do, the user is redirected to their account and their session status is updated to Online. Else, if the credentials don't exist, an error message is inserted into the LoginErrors array. Finally, if the count of errors in the array is greater than 0, the array is converted to a string and outputted to the User.*

## 5. Sign Up



# CHEEKO MOT CENTRE

### Create New Account

First Name

Last Name

Email

Username

Password

Confirm Password

Phone Number

Male
  Female
  Other

Caps Lock

Password Strength

SIGN UP

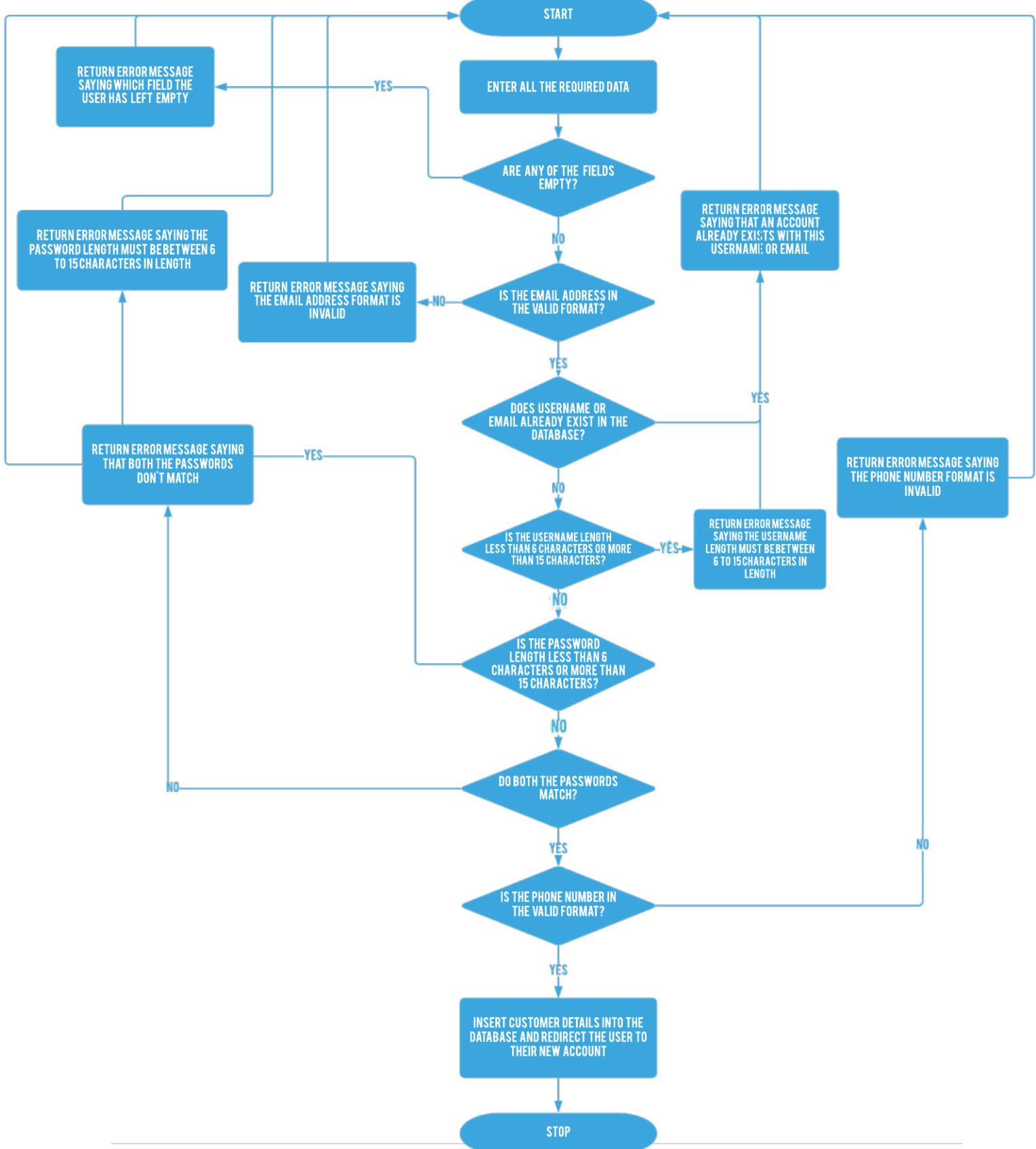
[Have an Account? Log In](#)

#### Description

On the Signup Page, new users can enter their personal details into the Input Boxes and create their own account. The form will be validated to ensure the user inputs are appropriate and error messages will be produced and displayed according to the incorrect input the user has put in. A hyperlink is present below for users with account to be redirected to the Login Page. Additionally, through JavaScript, I will increase the complexity of this page through a password strength checker and caps lock detector.

Variable	Description
FirstName	Stores the First Name inputted by the user
LastName	Stores the Last Name inputted by the user
Email	Stores the Email Address inputted by the User
Username	Stores the Username inputted by the User
Password	Stores the Password inputted by the User
ConfirmPassword	Stores the Confirmed Password inputted by the User
PhoneNumber	Stores the Phone Number inputted by the User
Gender	Stores the Gender inputted by the User
SQLCreateAccount	Stores the SQL statement which is used to insert customer details into database
SQLExistingEmail	Stores the SQL statement which is used to see if the Email Address already Exists
SQLExistingUser	Stores the SQL statement which is used to see if the Username already Exists
Connection	Establishes a connection between the website and the database
SignupErrors	An array which stores any error messages

## Flowchart of the Signup System



## SQL Query for Signup Page

**SQLCreateAccount** = "INSERT INTO customerdetails (FirstName, LastName, Email, Username, Password, PhoneNumber, Gender) VALUES ('\$ fName', '\$ lName', '\$ Email', '\$ Username', '\$ Password', '\$ PhoneNumber', '\$ Gender')";

*This SQL statement inserts the users inputted details into the customerdetails table in order to create them an account.*

**SQLExistingEmail** = "SELECT \* FROM customerdetails WHERE Email='\$Email' LIMIT 1";

*This SQL statement is to check if the Email Address inserted by the user is new or if an account has already been created using that Email.*

**SQLExistingUser** = "SELECT \* FROM customerdetails WHERE Username='\$Username' LIMIT 1";

*This SQL statement is to verify that the Username the customer has chosen is unique and not already in use in order to prevent duplicate accounts being created and to ensure that every user has different login credentials.*

## Pseudocode for Signup Page

```
Initialise Connection to Database
Open Connection to Database
SignupErrors=Array()
IF Signup Is Clicked THEN
    IF FirstName is Empty THEN
        INSERT Into SignupErrors "First Name is Required"
    ELSE
        FirstName = FirstName Input
        IF FirstName Contains Special Characters or Number THEN
            INSERT Into SignupErrors "First Name Can Only Contain Letters"
        ENDIF
    ENDIF
    IF LastName is Empty THEN
        INSERT Into SignupErrors "Last Name is Required"
    ELSE
        LastName = LastName Input
        IF LastName Contains Special Characters or Number THEN
            INSERT Into SignupErrors "Last Name Can Only Contain Letters"
        ENDIF
    ENDIF
    IF Email is Empty THEN
        INSERT Into SignupErrors "Email is Required"
    ELSE
        Email = Email Input
        IF Email Format is Invalid THEN
            INSERT Into SignupErrors "Email Format is Invalid"
        ELSE
            SQLExistingEmail (Query Above)
            IF SQLExistingEmail = TRUE THEN
                INSERT Into SignupErrors "An Account with This Email Already Exists"
            ENDIF
        ENDIF
    ENDIF
ENDIF
```

```

IF Username is Empty THEN
    INSERT Into SignupErrors "Username is Required"
ELSE
    Username = Username Input
    SQLExistingUser (Query Above)
    IF SQLExistingUser = TRUE THEN
        INSERT Into SignupErrors "Username Is Already Taken"
    ELSE
        IF Username Length < 6 || Username Length > 15 THEN
            INSERT INTO SignupErrors "Username Must Be Between
                6 And 15 Characters In Length"
        ENDIF
    ENDIF
ENDIF
IF Password is Empty THEN
    INSERT Into SignupErrors "Password is Required"
ELSE
    Password = Password Input
    IF Password Length < 6 || Password Length > 15 THEN
        INSERT Into SignupErrors "Password must be 6 to 15 Characters"
    ENDIF
ENDIF
ConfirmPassword = Confirm Password Input
IF Password <> Confirm Password THEN
    INSERT Into SignupErrors "Both Passwords don't Match"
ENDIF
IF PhoneNumber is Empty THEN
    INSERT Into SignupErrors "Phone Number is Required"
ELSE
    PhoneNumber = Phone Number Input
    IF PhoneNumber Format is Invalid THEN
        INSERT Into SignupErrors "Phone Number is Invalid"
    ENDIF
ENDIF
IF Gender is Empty THEN
    INSERT Into SignupErrors "Gender is Required"
ELSE
    Gender = Gender Input
ENDIF
IF SignupErrors == 0 THEN
    SQLCreateAccount (Query Above)
    Redirect to Account
ELSE
    FOREACH SignupErrors as Error
        DISPLAY Error
    ENDFOREACH
ENDIF
ENDIF

```

*The users inputted details will be validated to see if they are appropriate and the fields haven't been left empty. If there are errors in the form, an error message is inserted into an array. Several validation types will be present such as length check, format check and presence check. If no errors are detected, the details of the user are inserted into the database and they are redirected to their account. However, if errors are found, the array which contains the error messages is converted to string and outputted onto the website so the user is aware of what they must correct. By establishing a connection to the database at the top, we will be able to run those SQL queries and search the tables in the database to check that the inputted username and email don't exist to prevent account duplication.*

## 6. Account



# CHEEKO MOT CENTRE

431 Ilford Lane • IG1 2PG

[Book New Appointment](#)
  
[Register Your Vehicle](#)
  
[Change Account Details](#)
  
[Logout](#)

## Welcome to your Account,

# John Smith

**Vehicle Details:**

Vehicle Make	Vehicle Model	Registration Number	AC Refrigerant	Current Mileage	Last MOT	Update Details	Delete Vehicle
Audi	A4	OE08KSO	R134A	340025	2019-06-05	<a href="#">Update</a>	<a href="#">Delete</a>

**Previous Appointments:**

Booking Reference	Date	Time	Service	Price	Paid
#A013	2018-09-07	11:55AM-13:55PM	MOT	£52.50	YES

**Upcoming Appointments:**

Booking Reference	Date	Time	Service	Price	Paid	Change Appointment	Cancel Appointment
#A0195	2021-10-15	11:45AM-13:45PM	Full Service	£175	NO	<a href="#">Change</a>	<a href="#">Change</a>

**YOUR MOT RENEWAL DATE IS:**

20-12-2021 FOR VEHICLE WITH  
REGISTRATION NUMBER OE08  
KSO

 THIS VEHICLE'S MOT IS VALID

## FOOTER

Variable	Description
SQLGetName	Stores the SQL statement which is used to select the name of the user which is logged into their account
SQLGetVehicle	Stores the SQL statement which is used to get the vehicle details of the user that is logged in
SQLGetPreviousAppointments	Stores the SQL statement which is used to get the appointment details for past appointments
SQLGetUpcomingAppointments	Stores the SQL statement which is used to get the appointment details for upcoming appointments
SQLGetPayments	Stores the SQL statement which is used to get the payment details for the appointment
SQLDeleteVehicle	Stores the SQL statement which is used to delete the vehicle details from the users account
SQLCancelAppointment	Stores the SQL statement which is used to cancel an appointment
SQLLastMOT	Stores the SQL statement which is used to retrieve the date of the Last MOT for each of the vehicles owned by that user
Connection	Establishes a connection between the website and the database

## SQL Query for User Account

```
SQLGetName = "SELECT FirstName, LastName FROM customerdetails WHERE Username='$UsernameLogin' OR Email='$UsernameLogin';
```

*This SQL statement gets the First and last Name of the logged in user to from the customerdetails table to display the welcome message as shown above.*

```
SQLLastMOT = "SELECT LastMOT, RegistrationNumber FROM vehicledetails WHERE CustomerID = '$ID';
```

*This SQL statement gets the details for all the vehicles that are owned by that specific customer to find out whether their MOT has expired or is still valid.*

```
SQLGetVehicle = "SELECT * FROM vehicledetails WHERE CustomerID='$ID';
```

*This SQL statement gets the details for all the vehicles that are owned by that specific customer through the use of a foreign key*

```
SQLGetPreviousAppointments = "SELECT * FROM appointments WHERE CustomerID='$ID';
```

*This SQL statement gets the details for all the appointments that have been booked and have already passed*

```
SQLGetUpcomingAppointments = "SELECT * FROM appointmentdetails WHERE CustomerID = '$ID' AND AppointmentDate < '$Date';
```

*This SQL statement gets the details for all the appointments that have been booked and are upcoming*

```
SQLGetPayments = "SELECT paymentdetails.PaymentID, paymentdetails.AppointmentID, paymentdetails.CardholdersName, paymentdetails.CardNumber, paymentdetails.CardType, paymentdetails.CardExpiryDate FROM paymentdetails LEFT JOIN appointmentdetails ON appointmentdetails.AppointmentID = paymentdetails.AppointmentID WHERE appointmentdetails.CustomerID = '$ID';"
```

*This SQL statement gets the details for all the payments that have been made for the booked appointment through JOIN in SQL*

```
SQLDeleteVehicle = "DELETE FROM vehicledetails WHERE RegistrationNumber = '$RegistrationNumber';
```

*This SQL statement deletes the vehicle from the users account if the user clicks the Delete Vehicle button by finding the vehicle in the table through the use of the primary key 'registration number'*

```
SQLCancelAppointment = "DELETE FROM appointments WHERE AppointmentID='$AppointmentID';
```

*This SQL statement cancels the appointment the user clicks on and cancels the payment if the user has paid for it.*

## Pseudocode for User Account

```
Initialise Connection to Database
Open Connection to Database
IF UserLogin=FALSE THEN
    Redirect to Login Page
ELSE
    SQLGetVehicle (Query Above)
    SQLLastMOT (Query Above)
    SQLGetPreviousAppointments (Query Above)
    SQLGetUpcomingAppointments (Query Above)
    SQLGetPayments (Query Above)
    IF MOT is Expired THEN
        DISPLAY "THIS VEHICLES MOT HAS EXPIRED"
    ELSE
        DISPLAY "THIS VEHICLES MOT IS VALID"
    ENDIF
    IF BookNewAppointment is Clicked THEN
        Redirect to BookNewAppointment
    ENDIF
    IF RegisterYourVehicle is Clicked THEN
        Redirect to RegisterYourVehicle
    ENDIF
    IF ChangeAccountDetails is Clicked THEN
        Redirect to ChangeAccountDetails
    ENDIF
    IF Logout is Clicked THEN
        Redirect to Home
    ENDIF
    IF SQLGetVehicle (Query Above) > 0 THEN
        DISPLAY Vehicle Details
        IF UpdateVehicleDetails is Clicked THEN
            Redirect to UpdateVehicleDetails
        ELSE IF DeleteVehicle is Clicked THEN
            SQLDeleteVehicle (Query Above)
        ENDIF
    ELSE
        DISPLAY "No Vehicle is Registered"
    ENDIF
    IF SQLGetPreviousAppointments (Query Above) > 0 THEN
        DISPLAY Appointment Details
    ELSE
        DISPLAY "No Previous Appointments"
    ENDIF
    IF SQLGetUpcomingAppointments (Query Above) > 0 THEN
        DISPLAY Appointment Details
        IF ChangeAppointmentDetails is Clicked THEN
            Redirect to ChangeAppointmentDetails
        ELSE IF CancelAppointment is Clicked THEN
            SQLCancelAppointment (Query Above)
        ENDIF
    ELSE
        DISPLAY "No Upcoming Appointments"
```

```

ENDIF
IF SQLGetPayments(Query Above) > 0 THEN
    DISPLAY Payment Details
ELSE
    DISPLAY "No Payments Made"
ENDIF

```

When the user logs in, they will be able to access various features through their account hub. For example, they can book new appointments, register their vehicles to their account, cancel appointments, amend account details e.g. account password or change their appointment as well as look at the payment details, they have made for those appointments. Those who try to access this page without logging in will be automatically redirected to the Login page to prevent unauthorised access. Through the use of SQL queries, primary and foreign keys, I will be able to select specific data from tables in the database and update/delete records based on the user inputs.

## 7. Register Your Vehicle



### Enter your Vehicle Details

Select your Vehicle Make

Select your Vehicle Model

Vehicle Registration Number

Air Conditioning Refrigerant Type

Current Mileage

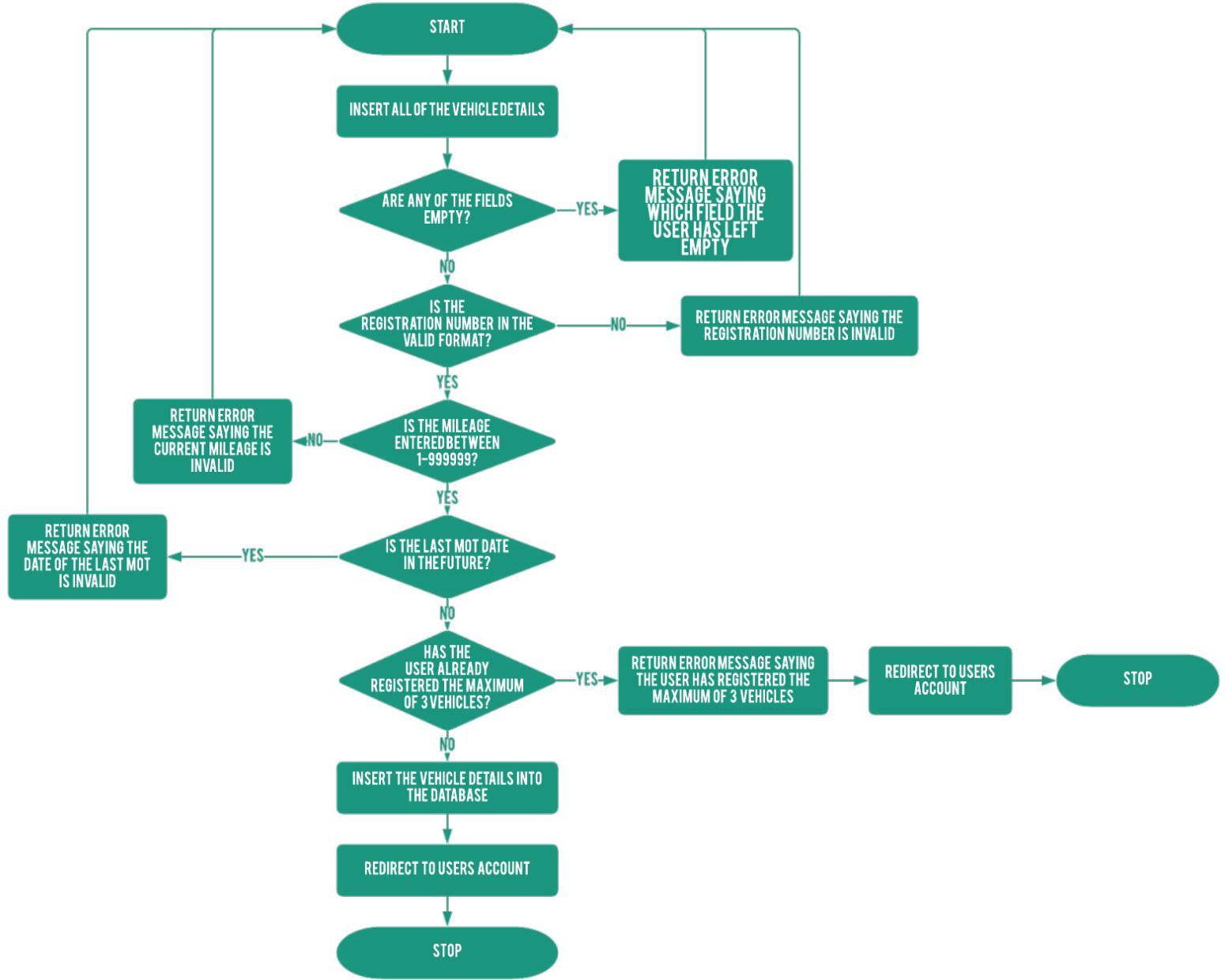
Last MOT Date

**Add New Vehicle**

Variable	Description
VehicleMake	Stores the Vehicle Make which the user has selected
VehicleModel	Stores the Vehicle Model which the user has selected
RegNumber	Stores the Vehicle Registration Number which the user has inputted
ACRefrigerant	Stores the Air Conditioning Refrigerant Type which the user has selected
CurrentMileage	Stores the Current Mileage of the Vehicle which the user has inputted
LastMOTDate	Stores the Date of the Last MOT
FormErrors	An array which stores any error messages
VehicleModelArray	Stores the Vehicle Models for each Make and outputs a specific Array based on the Vehicle Make selected by the user
SQLExistingVehicle	Stores the SQL statement used to check if the Registration Number already exists in the table
SQLCustomerID	Stores the SQL statement used to get the Customer ID of the user from the database

SQLCountOfVehicle	Stores the SQL statement used to get the number of vehicles registered under the specific user in the database
SQLInsertNewVehicle	Stores the SQL statement to insert the new vehicle details into the table given there aren't any errors in the form
Connection	Establishes a connection between the website and the database

### Flowchart for Vehicle Registration



### SQL Query for Registering Your Vehicle

```
SQLExistingVehicle = SELECT * FROM vehicledetails WHERE RegistrationNumber='$RegNumber'
LIMIT 1
```

*This SQL statement will be used to verify that the vehicledetails being entered are unique and that the vehicle hasn't been previously registered to prevent any duplicate records for a vehicle in our table.*

```
SQLCustomerID = SELECT CustomerID FROM customerdetails WHERE  
Username='$UsernameLogin OR Email='\$UsernameLogin"
```

*This SQL statement gets the unique CustomerID of the user which will be used to show which Customer the Vehicle belongs to through the use of a foreign key to link the customerdetails and vehicledetails tables together.*

```
SQLCountOfVehicle = SELECT * FROM vehicledetails WHERE CustomerID='\$CustomerID'
```

*This SQL statement will be used to return the number of vehicles registered to a specific user as I plan on setting a limit to the number of vehicles that can be registered to a single user to prevent people spamming their account with vehicles that may not belong to them.*

```
SQLInsertNewVehicle = INSERT INTO vehicledetails (VehicleMake, VehicleModel,  
RegistrationNumber, CurrentMileage, ACRefrigerant, LastMOTDate, CustomerID) VALUES  
('\$VehicleMake','\$VehicleModel','\$RegNumber','\$CurrentMileage','\$ACRefrigerant', ' \$LastMOTDate,  
' \$CustomerID')
```

*This SQL statement will insert the vehicle details into the table given that there aren't any errors in their inputs and through the use of a foreign key, we can identify which user the vehicle belongs to.*

### Pseudocode for User Account

Initialise Connection to Database

Open Connection to Database

VehicleModelArray = Array()

IF VehicleMake == "Audi" THEN

```
    VehicleModelArray == ('100','80','A1','A2','A3','A3 Cabriolet','A4','A4 Allroad','A4 Avant','A4  
Cabriolet','A5','A5 Cabriolet','A6 Allroad','A6 Avant','A6 Saloon','A7','A8','Coupe','E -  
Tron','Q2','Q3','Q5','Q7','Q8','Quattro','R8','Rs2','Rs3','Rs4','Rs4 Avant','Rs4 Cabriolet','Rs5','Rs6','Rs7','RsQ8','S1','S3','S4','S4  
Avant','S4 Cabriolet','S5','S6 Avant','S6 Saloon','S7','S8','SQ2','SQ5','SQ7','SQ8','TT','TT RS Roadster','TTS','TTS Coupe',  
'TTS Roadster')
```

FOREACH VehicleModelArray as VehicleModel

DISPLAY VehicleModel

ENDFOREACH

ELSE IF VehicleMake == "Mercedes-Benz" THEN

```
    VehicleModelArray== ('190','200','220','230','240','250','280','300','320','350','380','420','450','500','560','600','A  
Class','AMG','AMG GT','B Class','C Class','Citan','C1','CLA Class','CLC Class','CLK','CLS','E Class','G Class','G  
Class','GLA Class','GLB Class','GLC Class','GLE Class','GLS Class','M Class','R Class','S Class','SL  
Class','SLC','SLK','SLS','Sprinter','V Class','Viano','Vito','X Class')
```

FOREACH VehicleModelArray as VehicleModel

DISPLAY VehicleModel

ENDFOREACH

ELSE IF VehicleMake == "Toyota" THEN

```
    VehicleModelArray ==('Alphard','Auris','Avensis','Aygo','C-HR','Camry','Celica','Corolla  
Verso','Estima','GT86','Hilux','IQ','Land Cruiser','Land Cruiser Amazon','MR2','Noah','Previa','Prius','Prius',  
'Proace','Proace Verso','RAV4','Starlet','Urban Cruiser','Vellfire','Verso','Verso S','Voxy','Yaris','Yaris Verso')
```

FOREACH VehicleModelArray as VehicleModel

DISPLAY VehicleModel

ENDFOREACH

```

ENDIF
**This is an example of how I will implement the filtering system for all Vehicle Makes that are sold in the UK through
the use of JavaScript. It is too long to show here as there are several vehicle brands**
FormErrors = Array()
IF AddNewVehicle Is Clicked THEN
    IF VehicleMake Is EMPTY THEN
        Insert into FormErrors "Please Choose a Vehicle Make"
    ELSE
        VehicleMake = VehicleMake Input
    ENDIF
    IF VehicleModel Is EMPTY THEN
        Insert into FormErrors "Please Choose a Vehicle Model"
    ELSE
        VehicleModel = VehicleModel Input
    ENDIF
    IF RegNumber Is EMPTY THEN
        Insert into FormErrors "Please enter your Vehicle Registration Number"
    ELSE
        RegNumber = RegNumber Input
        IF RegNumber Format is INVALID THEN
            Insert into FormErrors "Vehicle Registration Number Is Invalid"
        ELSE
            SQLExistingVehicle (Query Above)
            IF SQLExistingVehicle == 1 THEN
                Insert into FormErrors "This Vehicle has already been Registered"
            ENDIF
        ENDIF
    ENDIF
    IF ACRefrigerant Is EMPTY THEN
        Insert into FormErrors "Please Choose the AC Refrigerant Type of your Vehicle"
    ELSE
        ACRefrigerant = ACRefrigerant Input
    ENDIF
    IF CurrentMileage Is EMPTY THEN
        Insert into FormErrors "Please enter the Current Mileage of your Vehicle"
    ELSE
        CurrentMileage = CurrentMileage Input
        IF CurrentMileage<0 or CurrentMileage>999999 THEN
            Insert into FormErrors "Current Mileage is Invalid"
        ELSE
            IF CurrentMileage Format is INVALID THEN
                Insert into FormErrors "Current Mileage is Invalid"
            ENDIF
        ENDIF
    ENDIF
    IF LastMOTDate Is EMPTY THEN
        Insert into FormErrors "Please Insert the Last MOT Date"
    ELSE
        LastMOTDate = LastMOTDate Input
    ENDIF
    IF FormErrors = 0 THEN
        SQLCustomerID (Query Above)
        SQLCountOfVehicle (Query Above)
    ENDIF

```

```

IF SQLCountOfVehicle == 3 THEN
Insert into FormErrors "You have already Registered the Maximum of 3 Vehicles"
ELSE
SQLInsertNewVehicle (Query Above)
Redirect to Account
ENDIF
ENDIF
ELSE
FOREACH FormErrors as Error
    DISPLAY Error
ENDFOREACH
ENDIF
ENDIF

```

*The form will filter itself to output the vehicle models of the specific make based on the user selection which will be possible through the use of JavaScript by adding event listeners. This will add a level of complexity to the form as it would make the user see only the models for that make rather than them having to search through hundreds of different models to find their own. Also, once the user has pressed the AddNewVehicle button, through the use of SQL queries, we can perform several validations on the forms to ensure that the vehicle details are unique and haven't previously been inserted in the database and through the use of foreign keys, we will be able to associate a vehicle to a user and model the many to one relationship by allowing the user to register multiple vehicles to their account with an upward limit of 3.*

## 8. Change Vehicle Details



### Enter your Vehicle Details

Vehicle Make: Toyota Read Only

Vehicle Model: Prius Read Only

Registration Number: FT64NPO

Air Conditioning Refrigerant Type: 134A

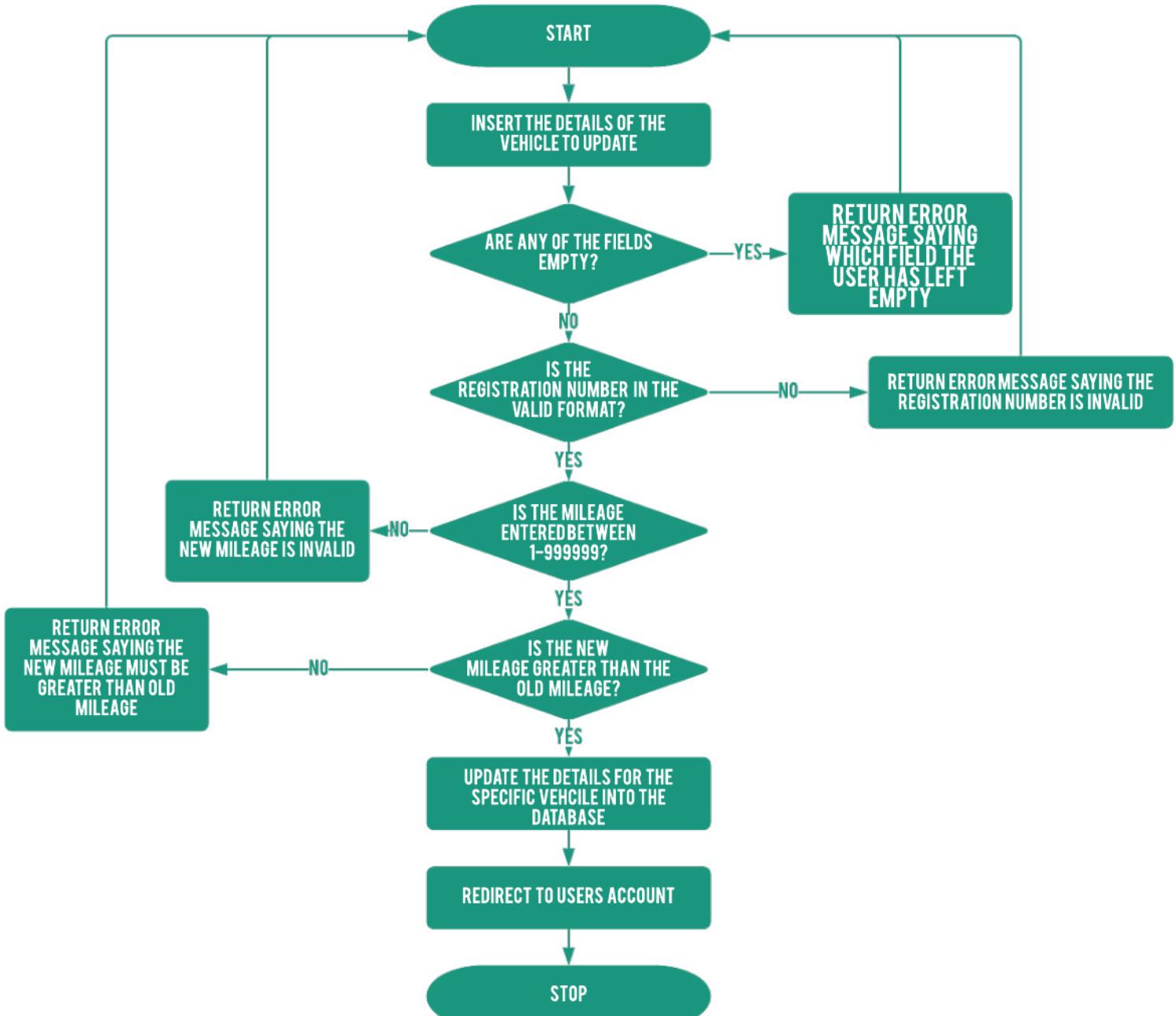
Current Mileage: 72560

Last MOT Date: 2019-07-23

**Update Vehicle Details**

Variable	Description
RegNumber	Stores the Vehicle Registration Number which the user has inputted
ACRefrigerant	Stores the Air Conditioning Refrigerant Type which the user has selected
NewMileage	Stores the New Mileage of the Vehicle which the user has inputted
FormErrors	An array which stores any error messages
VehicleModelArray	Stores the Vehicle Models for each Make and outputs a specific Array based on the Vehicle Make selected by the user
SQLGetMileage	Stores the SQL statement used to get the mileage of the vehicle from the database
SQLUpdateVehicleDetails	Stores the SQL statement to update the details of the vehicle
SQLVehicleDetails	Stores the SQL statement to get the vehicle details from the database
Connection	Establishes a connection between the website and the database
LastMOTDate	Stores the date of the last MOT performed on the vehicle

Flowchart for Updating Vehicle Details



## SQL Query for Updating Vehicle Details

```
SQLVehicleDetails = SELECT * FROM vehicledetails WHERE RegNumber='$RegNumber'"
```

*This SQL statement is used to get the vehicle details for that specific vehicle whose details are being updated*

```
SQLGetMileage = SELECT CurrentMileage FROM vehicledetails WHERE RegistrationNumber='$RegistrationNumber'
```

*This SQL statement is used to get the Current Mileage of the Vehicle in order to compare it with the New Mileage to ensure that New Mileage>Old Mileage to prevent users from entering a figure lower than their Current Mileage*

```
SQLUpdateVehicleDetails = UPDATE vehicledetails SET RegistrationNumber='$RegistrationNumber', ACRefrigerant='$ACRefrigerant', CurrentMileage='$Mileage', LastMOT='$LastMOTDate' WHERE RegistrationNumber='$OldRegistrationNumber'
```

*This SQL statement is used to replace the new details in the database with the old details*

## Pseudocode for Updating Vehicle Details

```
Initialise Connection to Database
Open Connection to Database
SQLVehicleDetails (Query Above)
FormErrors = Array()
IF UpdateVehicleDetails is CLICKED THEN
    RegNumber = RegNumber Input
    IF RegNumber Format is INVALID THEN
        Insert into FormErrors "Vehicle Registration Number must be in format [XX00XXX]"
    ENDIF
    ACRefrigerant = ACRefrigerant Input
    NewMileage = NewMileage Input
    LastMOTDate = MOTDate Input
    SQLGetMileage (Query Above)
    IF NewMileage<SQLGetMileage THEN
        Insert into FormErrors "Updated Mileage is less than Current Mileage"
    ELSE
        IF NewMileage<0 or NewMileage>999999
            Insert into FormErrors "Updated Mileage is Invalid"
        ELSE
            IF NewMileage Format is INVALID THEN
                Insert into FormErrors "Updated Mileage is Invalid"
            ENDIF
        ENDIF
    ENDIF
    IF FormErrors == 0 THEN
        SQLUpdateVehicleDetails (Query Above)
        Redirect to Account
    ELSE
        FOREACH FormErrors as Error
            DISPLAY Error
        ENDFOREACH
```

```

ENDIF
ENDIF

```

On this page, users will be able to update some details about their vehicle if needed e.g. their vehicle mileage or registration number if it has been changed. If the inputs are valid, an SQL statement will be used to insert the new details in place of the old ones. Through the use of a unique foreign key in Registration Number, we will be able to load the details of target a specific vehicle to update rather than all the vehicles that are owned and registered under the customer. Some details cannot be changed e.g. Vehicle Make and Model since this isn't hypothetically or logically possible in reality.

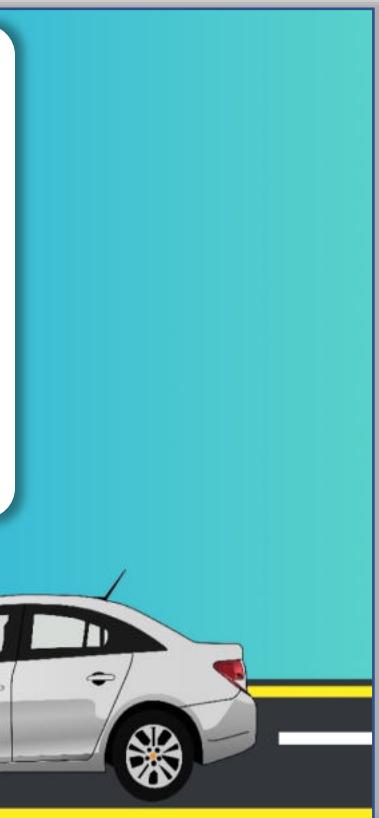
## 9. Book New Appointment

### Book New Appointment

Appointment Details:

Registration Number:	OE08KSO
Service Type:	MOT (Cars)
Total Price:	£55.00
Appointment Date:	2020-12-20
Appointment Time:	11:30AM-12:30AM

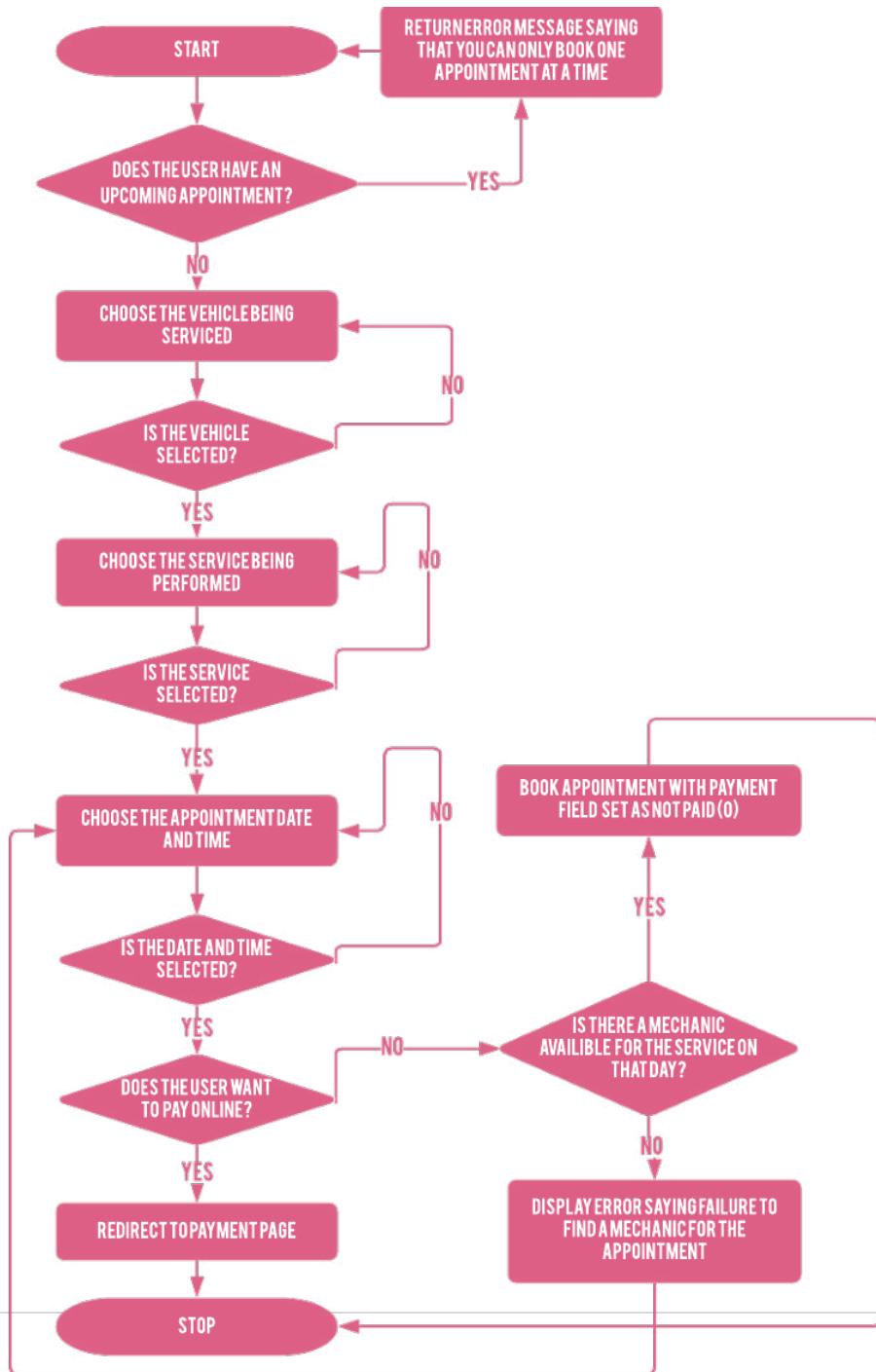
Pay Online (OPTIONAL)
 Previous
Confirm



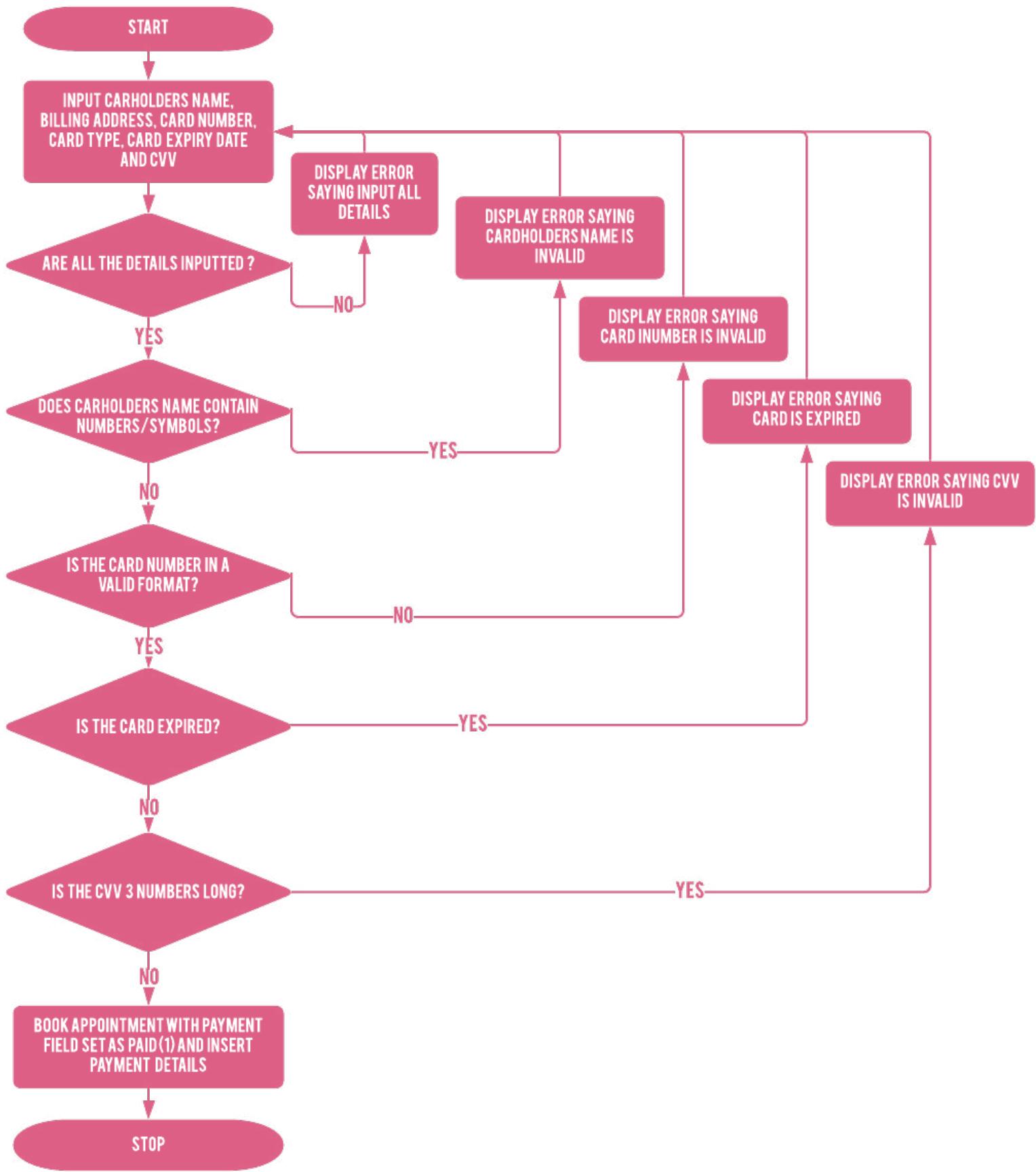
Variable	Description
Connection	Establishes connection between the database and the website
CustomerID	Stores the Customer ID of the logged in user
Registration Number	Stores the Registration Number of the vehicle being serviced
Date	Stores the date the customer has chosen for their appointment
Start Time	Stores the starting time of the appointment
End Time	Stores the ending time of the appointment
Service	Stores the ServiceID of the service type the customer has selected for their appointment
Duration	Stores the length of the service from the Services Table
Price	Stores the total price of the Appointment
Cardholder Name	Stores the Name on Payment Card
Billing Address	Stores the address of the customer for payment
Postal Code	Stores the postal code of customer for payment
Card Number	Stores customers payment card number
Card Type	Stores the card provider of the card e.g. American Express
Expiry Date	Stores the expiry date of payment card
CVV	Stores the last 3 digits on the back of the payment card
SQLChooseMechanic	Stores the SQL statement used to select the mechanic who will perform the Service
SQLServices	Stores the SQL statement used to get the services

<b>SQLAvailableAppointmentTimes</b>	Stores the SQL statement used to get the appointment times that aren't booked
<b>SQLCustomerVehicles</b>	Stores the SQL statement used to get the details of the users' vehicles
<b>SQLCustomerDetails</b>	Stores the SQL statement used to get the users' details
<b>SQLAddPayment</b>	Stores the SQL statement to add the details of the payment from the customer into the table
<b>SQLBookAppointmentNoPayment</b>	Stores the SQL statement used to add the appointment to the table with no payment
<b>SQLBookAppointmentMakePayment</b>	Stores the SQL statement used to add the appointment to the table with payment
<b>SQLAssignMechanicToAppointment</b>	Stores the SQL statement used to assign mechanics to an appointment
<b>SQLUpcomingAppointment</b>	Stores the SQL statement used to check if the user already has a booked upcoming appointment
<b>SQLUpdateHours</b>	Stores the SQL statement used to update the number of hours worked by the mechanic performing that specific service
<b>BookingErrors</b>	An array which stores any error messages

## Flowchart for Booking Appointments



## Flowchart for Payments



## SQL Query for Booking Appointments

```
SQLCustomerDetails = "SELECT * FROM customerdetails WHERE Username ='$Username' OR Email='$Username'"
```

*This SQL statement is used to get the customer details from the database*

```
SQLCustomerVehicles = "SELECT * FROM vehicledetails WHERE CustomerID='\$CustomerID'"
```

*This SQL statement is used to all the vehicles registered under that user which allows the user to select which vehicle they wish to book the appointment for.*

```
SQLServices = "SELECT * FROM service"
```

*This SQL statement is used to get all the service types that the MOT Centre provide to customers*

```
SQLAvailableAppointmentTimes = "SELECT * FROM appointmentdetails WHERE (AppointmentStartTime BETWEEN '$StartTime' AND '$EndTime' AND AppointmentStartTime <> '$EndTime') AND AppointmentDate = '$Date' LIMIT 1";
```

*This SQL statement is used to check if an appointment is currently booked for that specific timeslot*

```
SQLChooseMechanic = "SELECT MechanicID FROM mechanics WHERE DayOfWeekNotWorking <> DAYOFWEEK('$AppointmentDate') AND MechanicType = '$ServiceName' ORDER BY RAND() LIMIT 1"
```

*This SQL statement is used to find the Mechanic which will perform the service given it isn't their day off on the day of the appointment and depending on the service they specialise in performing e.g. MOT.*

```
SQLBookAppointmentNoPayment = "INSERT INTO `appointmentdetails` (`AppointmentDate`, `AppointmentStartTime`, `AppointmentEndTime`, `Paid`, `TotalPrice`, `ServiceID`, `CustomerID`, `RegistrationNumber`) VALUES ('$AppointmentDate','$AppointmentStartTime','$AppointmentEndTime','0','$Price','$Service','$ID','$RegistrationNumber');"
```

*This SQL statement is used to insert the appointment details into the appointment table in the database with payment made.*

```
SQLBookAppointmentMakePayment = "INSERT INTO `appointmentdetails` (`AppointmentDate`, `AppointmentStartTime`, `AppointmentEndTime`, `Paid`, `TotalPrice`, `ServiceID`, `CustomerID`, `RegistrationNumber`) VALUES ('$AppointmentDate','$AppointmentStartTime','$AppointmentEndTime','1','$Price','$Service','$ID','$RegistrationNumber');"
```

*This SQL statement is used to insert the appointment details into the appointment table in the database with payment made.*

```
SQLMakePayment = " INSERT INTO `paymentdetails`(`CardholdersName`, `BillingAddress`, `PostalCode`, `CardNumber`, `CardType`, `CardExpiryDate`, `CVV`, `AppointmentID`) VALUES ('$CardholdersName','$FullAddress','$PostalCode','$CardNumber','$CardType','$ExpiryDateMM/$ExpiryDateYYYY','$CVV','$LastAppointmentID');"
```

*This SQL statement is used to insert the payment details into the payment table in the database.*

```
SQLAssignMechanicToAppointment = "INSERT INTO `mechanics_on_appointment`  
(`AppointmentDate`, `AppointmentID`, `MechanicID`) VALUES  
('$AppointmentDate','$LastAppointmentID', '$MechanicID');"
```

*This SQL statement is used to insert the assign a mechanic to an appointment depending on the service being performed.*

```
SQLUpdateHours = " UPDATE mechanics SET TotalHoursWorked = '$UpdatedHoursWorked' WHERE  
MechanicID ='$MechanicID'"
```

*This SQL statement is used to update the number of hours worked by the mechanic depending on the length of time it takes to perform that specific service.*

```
SQLUpcomingAppointment = "SELECT * FROM appointmentdetails WHERE CustomerID =  
'$CustomerID' AND AppointmentDate >= '$Date'"
```

*This SQL statement is used to check if the user has already booked an appointment as the user can only book one future appointment at a time*

### Pseudocode for Booking Appointment

```
Initialise Connection to Database  
Open Connection to Database  
SQLUpcomingAppointment (Query Above)  
IF SQLUpcomingAppointment == TRUE THEN  
    DISPLAY "You Already Have An Upcoming Appointment. Only One Appointment Can Be Booked At A Time"  
    BookingErrors = Array()  
    IF Not Logged In THEN  
        Redirect to Login  
    ELSE  
        DISPLAY Book New Appointment Part 1  
        IF Vehicle is Empty THEN  
            INSERT INTO BookingErrors "Please Select The Vehicle Being Serviced"  
            FOREACH BookingErrors as Errors  
                DISPLAY Errors  
            ENDFOREACH  
        ELSE  
            Registration Number = Selected Vehicle  
        ENDIF  
        DISPLAY Book New Appointment Part 2  
        SQLServices (Query Above)  
        IF Service is Empty THEN  
            INSERT INTO BookingErrors "Please Select the Service Being Performed"  
            FOREACH BookingErrors as Errors  
                DISPLAY Errors  
            ENDFOREACH  
        ELSE  
            Service = Selected Service  
        ENDIF  
        DISPLAY Appointment Date Schedule  
        Date = Selected Date  
        DISPLAY Appointment Time Schedule  
        SQLAvailableAppointmentTimes (Query Above)  
        Date = Selected Time  
        DISPLAY Book New Appointment Part 3  
        IF Confirm Is Clicked THEN
```

```

IF Payment Is Selected THEN
    Redirect To Payment
ELSE
    SQLChooseMechanic (Query Above)
    IF SQLChooseMechanic == TRUE THEN
        SQLBookAppointmentNoPayment (Query Above)
        IF SQLBookAppointmentNoPayment == TRUE THEN
            SQLAssignMechanicToAppointment (Query Above)
            IF SQLAssignMechanicToAppointment == TRUE THEN
                SQLUpdateHours (Query Above)
                IF SQLUpdateHours == TRUE THEN
                    Redirect To AppointmentConfirmation
                ELSE
                    INSERT INTO BookingErrors "SQL Error. Please Try
                        Again Later."
                ENDIF
            ELSE
                INSERT INTO BookingErrors "Failure To Book Your
                    Appointment. Please Try Later"
            ENDIF
        ELSE
            INSERT INTO BookingErrors "Failure To Book Your Appointment.
                Please Try Later"
        ENDIF
    ELSE
        INSERT INTO BookingErrors "Failure To Find A Mechanic For Your
            Appointment. Please Try Again Later"
    ENDIF
ENDIF
ENDIF

IF (RegistrationNumber Is Not Set || Service Is Not Set || AppointmentDate Is Not Set || AppointmentTime Is Not Set ||
Duration Is Not Set) THEN
    Redirect to Login
ELSE
    SQLUpcomingAppointment (Query Above)
    BookingErrors = Array()
    IF CardholderName is Empty THEN
        INSERT INTO BookingErrors "Please Enter Cardholders Name"
    ELSE
        CardholderName = CardholderName Input
        IF CardholderName Contains Numbers THEN
            INSERT INTO BookingErrors "Cardholders Name Can Only Contain Letters"
        ENDIF
    ENDIF
    IF (Address Is Empty || PostalCode Is Empty) THEN
        INSERT INTO BookingErrors "Please Enter The Billing Address"
    ELSE
        Billing Address = Billing Address Input
        Postal Code = Postal Code Input
    ENDIF
    IF Card Number Is Empty THEN
        INSERT INTO BookingErrors "Please Enter Your Card Number"
    ELSE
        Card Number = Card Number Input
    ENDIF

```

```

        IF Card Number Is In Invalid Format THEN
            INSERT INTO BookingErrors "Card Number Is Invalid"
        ENDIF
    ENDIF
    IF Card Type is Empty THEN
        INSERT INTO BookingErrors "Please Select Your Card Type"
    ELSE
        Card Type = CardType Input
    ENDIF
    IF Expiry Date is Empty THEN
        INSERT INTO BookingErrors "Please enter your Card Expiry Date"
    ELSE
        Expiry Date = Expiry Date Input
        IF Month Of Expiry Date < "0" || Month Of Expiry Date > "12" THEN
            INSERT INTO BookingErrors "The Month Of The Expiry Date Is Invalid"
        ELSE IF Expiry Date Contains Letters THEN
            INSERT INTO BookingErrors "The Expiry Date Is Invalid"
        ELSE IF Expiry Date Month Length <> 2 THEN
            INSERT INTO BookingErrors "The Month Of The Expiry Date Of Your Card Must Be
            In Format MM"
        ELSE IF Expiry Date Year Length <> 4 THEN
            INSERT INTO BookingErrors "The Year Of The Expiry Date Of Your Card Must Be
            In Format YYYY"
        ELSE IF (Expiry Date Year <= Current Year && Expiry Date Month < Current Month) THEN
            INSERT INTO BookingErrors "Your Card Has Expired"
        ENDIF
    ENDIF
    IF CVV is Empty THEN
        INSERT INTO BookingErrors "Please Enter Your Card Verification Value (CVV)"
    ELSE
        CVV = CVV Input
        IF (CVV Length <> 3 || CVV Contains Letters) THEN
            INSERT INTO BookingErrors "Your Card Verification Value (CVV) Is Invalid"
        ENDIF
    ENDIF
    IF BookingErrors == 0 THEN
        SQLChooseMechanic (Query Above)
        IF SQLChooseMechanic == TRUE THEN
            SQLBookAppointmentNoPayment (Query Above)
            IF SQLBookAppointmentMakePayment == TRUE THEN
                SQLAssignMechanicToAppointment (Query Above)
                IF SQLAssignMechanicToAppointment == TRUE THEN
                    SQLMakePayment (Query Above)
                    SQLUpdateHours (Query Above)
                    IF SQLUpdateHours == TRUE && SQLMakePayment == TRUE THEN
                        Redirect To AppointmentConfirmation
                    ELSE
                        INSERT INTO BookingErrors "SQL Error. Please Try Later"
                    ENDIF
                ELSE
                    INSERT INTO BookingErrors "Failure To Book Your
                    Appointment. Please Try Later"
                ENDIF
            ELSE
                INSERT INTO BookingErrors "Failure To Book Your Appointment.
                Please Try Later"
            ENDIF
        ELSE
            INSERT INTO BookingErrors "Failure To Book Your Appointment.
            Please Try Later"
        ENDIF
    ELSE
        INSERT INTO BookingErrors "Failure To Book Your Appointment.
        Please Try Later"
    ENDIF

```

```

        Please Try Later"
ENDIF
ELSE
    INSERT INTO BookingErrors "Failure To Find A Mechanic For Your Appointment.
        Please Try Again Later"
ENDIF
ELSE
    FOREACH BookingErrors as Errors
        DISPLAY Errors
    ENDFOREACH
ENDIF

```

*On this page, a multi-step form will allow users to book an appointment for the vehicle they wish and make payment online (optional). If the user already has an upcoming appointment, they won't be able to book the appointment since they can only book one appointment at a time. Also, mechanics will automatically be assigned to an appointment depending on their availability on that day and the service they specialise in performing. Given the details entered are valid, the appointment and payment details will be inserted into the database.*

## 10. Booking Invoice


**CHEEKO MOT CENTRE**

**CHEEKO MOT CENTRE**  
 431 Ilford Lane  
 Essex, IG1 2PG  
 02085140404

**CUSTOMER DETAILS**  
 Name: Joe Smith  
 Email: joe.smith@gmail.com  
 Phone Number: 07304842817

**INVOICE**

<b>DETAILS OF APPOINTMENT</b>					
Reference	Registration Number	Service Type	Date	Starting Time	Ending Time
#A05	OE10 EEN	Engine Oil And Filter Change	2021-01-23	16:00PM	16:45PM

<b>DETAILS OF PAYMENT</b>				
Reference	Billing Address	Card Number	Expiry Date	Amount
PAYMENT PENDING				



Variable	Description
Connection	Establishes connection between the database and the website
SQLCustomerDetails	Stores the SQL statement to get the details of the customer
SQLGetAppointmentDetails	Stores the SQL statement to get the details of the appointment that has been booked
SQLGetServiceDetails	Stores the SQL statement to get the details of the service that the appointment has been booked for
SQLPaymentDetails	Stores the SQL statement to get the details of the payment that has been made for the booked appointment

### SQL Query for Invoice

**SQLCustomerDetails** = SELECT CustomerID, Email, FirstName, LastName, PhoneNumber FROM customerdetails WHERE Username='\$Username' OR Email='\$Username' LIMIT 1;

*This SQL statement is used to get the customers details to display who has booked the appointment and who the invoice belongs to*

**SQLGetAppointmentDetails** = SELECT appointmentdetails.AppointmentID, appointmentdetails.AppointmentDate, appointmentdetails.AppointmentStartTime, appointmentdetails.AppointmentEndTime, appointmentdetails.RegistrationNumber, appointmentdetails.TotalPrice, appointmentdetails.Paid FROM appointmentdetails LEFT JOIN customerdetails ON customerdetails.CustomerID = appointmentdetails.CustomerID WHERE appointmentdetails.CustomerID='\$CustomerID' ORDER BY appointmentdetails.AppointmentDate DESC LIMIT 1;

*This SQL statement is used to get the appointment details for the newly booked appoint by joining multiple tables*

**SQLGetServiceDetails** = SELECT services.ServiceName FROM services INNER JOIN appointmentdetails ON appointmentdetails.ServiceID = services.ServiceID WHERE appointmentdetails.AppointmentID='\$AppointmentID';

*This SQL statement is used to get the service name for the newly booked appoint by joining multiple tables to display to the user what service the appointment has been booked for*

**SQLPaymentDetails** = SELECT paymentdetails.PaymentID, paymentdetails.PostalCode, paymentdetails.BillingAddress, paymentdetails.CardNumber, paymentdetails.CardType, paymentdetails.CardExpiryDate FROM paymentdetails LEFT JOIN appointmentdetails ON appointmentdetails.AppointmentID = paymentdetails.AppointmentID WHERE appointmentdetails.AppointmentID = '\$AppointmentID' LIMIT 1;

*This SQL statement is used to get the payment details for the newly booked appoint by joining multiple tables to display to the user the details they inputted*

### Pseudocode for Creating An Invoice

Initialise Connection to Database

Open Connection to Database

IF User Has Not Booked Appointment THEN

    Redirect To Account

ENDIF

Create New PDF

SQLCustomerDetails (Query Above)

SQLGetAppointmentDetails (Query Above)

SQLGetServiceDetails (Query Above)

SQLPaymentDetails (Query Above)

```

IF SQLPaymentDetails Results > 0
    DISPLAY Payment Details
ELSE
    DISPLAY "PAYMENT PENDING"
ENDIF
OUTPUT PDF

```

*On this page, a dynamic invoice will be produced after the appointment is booked that displays the details of the booked appointments and the payment details if the payment was made. This will be designed using an external PHP library called FPDF and will contain a fully functioning QR Code that works in real life to identify the AppointmentID.*

## 11. Change Appointment

### Change Appointment

**APPOINTMENT DETAILS:**

REGISTRATION NUMBER	OE08 KSO	CHANGE
SERVICE TYPE	Engine Oil And Filter Change	CHANGE
TOTAL PRICE	£50	CHANGE
APPOINTMENT DATE	09-07-2020	CHANGE
APPOINTMENT TIME	10:00-10:45	CHANGE
PAYMENT MADE	NO	CHANGE

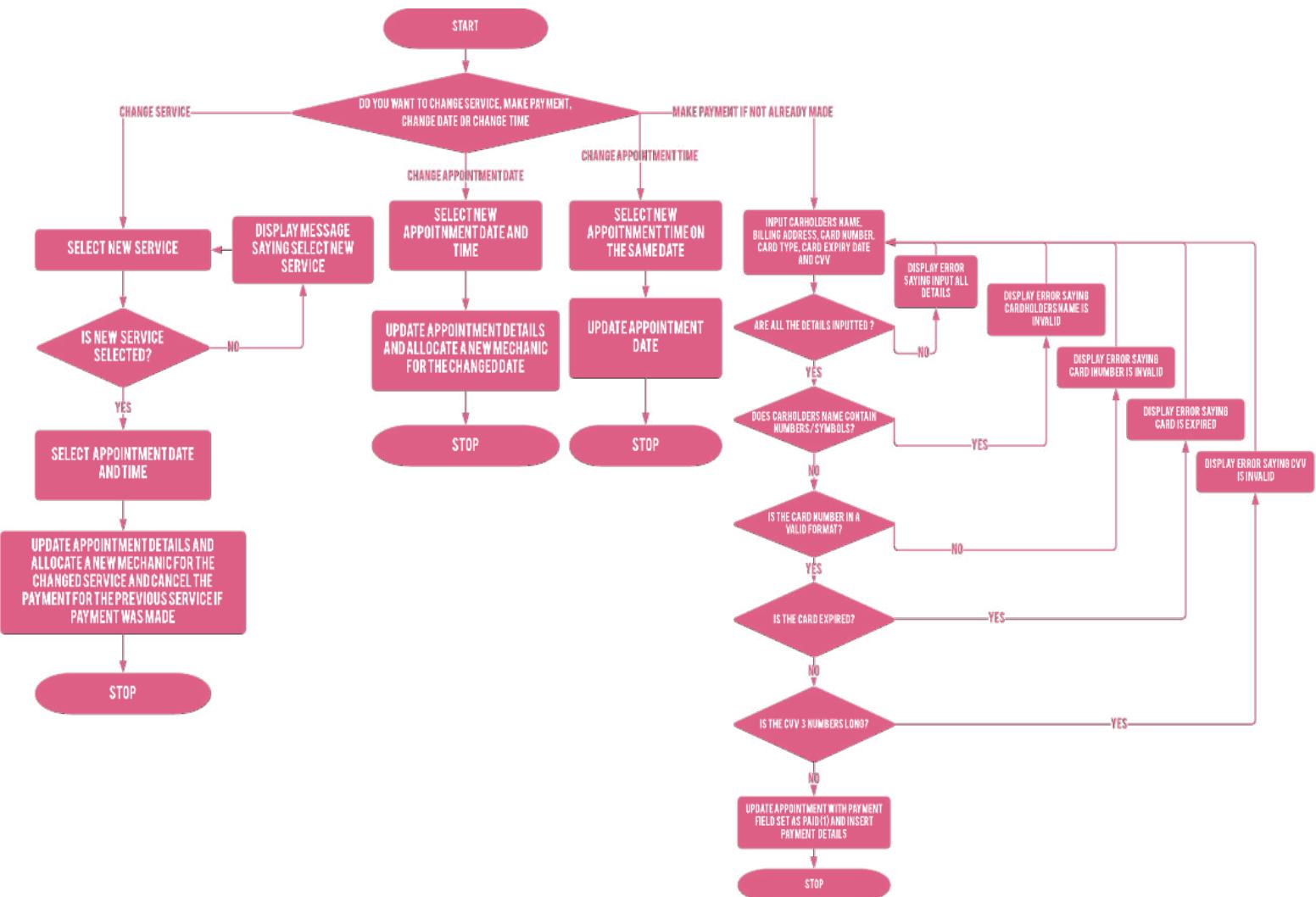
[RETURN TO HOME](#)



Variable	Description
Connection	Establishes connection between the database and the website
NewDate	Stores the date the customer has chosen for their appointment
NewTime	Stores the time the customer has chosen for their appointment
NewService	Stores the ServiceID of the service type the customer has chosen
TotalHoursWorked	Stores the total hours worked by the mechanic that was initially assigned to the appointment by subtracting away the duration of the service they were meant to be performing
Paid	Stores a bit (0 or 1) to represent if the Customer has paid online or not
Cardholder Name	Stores the Name on Payment Card
Billing Address	Stores the address of the customer for payment
Postal Code	Stores the postal code of customer for payment
Card Number	Stores customers payment card number
Card Type	Stores the card provider of the card e.g, American Express
Expiry Date	Stores the expiry date of payment card
CVV	Stores the last 3 digits on the back of the payment card
Duration	Stores the duration of the initially booked appointment
SQLCurrentMechanic	Stores the SQL statement to get the details of the mechanic who was initially assigned to the appointment
SQLUpdateHoursWorked	Stores the SQL statement to update the hours worked by the mechanic

SQLGetAppointment	Stores the SQL statement to get the appointment details for the appointment being amended
SQLAppointmentService	Stores the SQL statement to get the service the user had initially booked
SQLServices	Stores the SQL statement to get all the services from the database which the MOT Centre offer
SQLChooseMechanic	Stores the SQL statement to select the mechanics who are available and specialised in performing the service which the customer has selected
SQLUpdateAppointmentAll	Stores the SQL statement to change the details for the service, date and time
SQLUpdateAppointmentDateAndTime	Stores the SQL statement to change the details for the appointment date and time
SQLUpdateAppointmentTime	Stores the SQL statement to change the details for the appointment time
SQLDeleteOldMechanicsOnAppointment	Stores the SQL statement to delete the previous record for the mechanics assigned to the appointment
SQLAssignNewMechanicToAppointment	Stores the SQL statement to assign new mechanics to the amended appointment
SQLAddPayment	Stores the SQL statement to add the payment details for the customer if they choose to pay online
SQLDeletePayment	Stores the SQL statement to delete the payment the customer had made for the original appointment
SQLUpdatePaid	Stores the SQL statement to change the appointment record to show that the customer has paid for their appointment online and don't have to at the day of the appointment

### Flowchart for Changing Appointment Details



## SQL Query for Changing Appointments

**SQLGetAppointment** = SELECT \* FROM appointmentdetails WHERE AppointmentID = '\$AppointmentID'  
AND CustomerID = '\$CustomerID'

*This SQL statement is used to get the appointment details for that specific appointment whose details are being changed*

**SQLAppointmentService** = SELECT \* FROM services WHERE ServiceID = '\$ServiceID'

*This SQL statement is used to get the service details of the service the customer had initially booked*

**SQLServices** = SELECT \* FROM services

*This SQL statement is used to get all the services provided at the MOT Centre from the database*

**SQLChooseMechanic** = SELECT MechanicID, TotalHoursWorked FROM mechanics WHERE DayOfWeekNotWorking <> DAYOFWEEK('\$AppointmentDate') AND MechanicType = '\$ServiceName' ORDER BY RAND() LIMIT 1

*This SQL statement is used to find the Mechanic who will perform the service given it isn't their day off on the new appointment date and depending on the service they specialise in performing e.g. MOT.*

**SQLGetCurrentMechanic** = SELECT mechanics\_on\_appointment.MechanicID FROM mechanics\_on\_appointment INNER JOIN mechanics ON mechanics\_on\_appointment.MechanicID = mechanics.MechanicID WHERE mechanics\_on\_appointment.AppointmentID = '\$AppointmentID'

*This SQL statement is used to find the Mechanic who is currently on the appointment in order to subtract away the total hours worked as they will no longer be performing the service they were supposed to as the user has changed the service*

**SQLUpdateHoursWorked** = UPDATE mechanics SET TotalHoursWorked = '\$TotalHoursWorked' WHERE MechanicID = '\$MechanicID'

*This SQL statement is used to reduce the number of hours worked by the mechanic who was initially assigned to the original appointment as they will no longer be performing the service*

**SQLUpdateAppointmentAll** = UPDATE `appointmentdetails` SET `Paid`='0',  
`AppointmentDate`='\$\_NewAppointmentDate', `AppointmentStartTime`='\$\_NewStartTime',  
`AppointmentEndTime`='\$\_NewEndTime', `TotalPrice`='\$\_ServicePrice', `ServiceID`='\$\_NewService' WHERE  
`AppointmentID` = '\$AppointmentID'

*This SQL statement is used to replace the new details in the database with the old details when updating service, time and date*

**SQLUpdateAppointmentDateAndTime** = UPDATE `appointmentdetails` SET  
`AppointmentDate`='\$\_NewAppointmentDate', `AppointmentStartTime`='\$\_NewStartTime',  
`AppointmentEndTime`='\$\_NewEndTime' WHERE `AppointmentID` = '\$AppointmentID'

*This SQL statement is used to replace the new details in the database with the old details when changing appointment date and time*

**SQLUpdateAppointmentTime** = UPDATE appointmentdetails SET AppointmentStartTime = '\$NewStartTime', AppointmentEndTime = '\$NewEndTime', AppointmentDate = '\$Date' WHERE AppointmentID = '\$AppointmentID'

*This SQL statement is used to replace the new details in the database with the old details when changing appointment time only*

**SQLDeleteOldMechanicsOnAppointment** = DELETE FROM mechanics\_on\_appointment WHERE AppointmentID = "\$AppointmentID"

*This SQL statement removes the mechanics who were previously assigned to the old appointment*

**SQLAssignNewMechanicToAppointment** = UPDATE mechanics\_on\_appointment SET MechanicID = '\$MechanicID', AppointmentDate = '\$NewAppointmentDate' WHERE AppointmentID = '\$AppointmentID'

*This SQL statement is used to assign new mechanics to the appointment*

**SQLAddPayment** = INSERT INTO `paymentdetails`(`CardholdersName`, `BillingAddress`, `PostalCode`, `CardNumber`, `CardType`, `CardExpiryDate`, `CVV`, `AppointmentID`) VALUES ('\$CardholdersName','\$FullAddress','\$PostalCode','\$CardNumber','\$CardType','\$ExpiryDateMM/\$ExpiryDateYYYY','\$CVV','\$AppointmentID');

*This SQL statement is used to insert the payment details into the payment table in the database.*

**SQLDeletePayment** = DELETE FROM paymentdetails WHERE AppointmentID = "\$AppointmentID"

*This SQL statement is used to delete the old payment of the customer if they have changed their service since the new service may have a different price.*

**SQLUpdatePaid** = "UPDATE appointmentdetails SET Paid='1' WHERE AppointmentID = '\$AppointmentID'"

*This SQL statement is to update the paid field in the appointmentdetails table to 1 to show they have successfully paid for their appointment and no longer have to on the appointment day*

### Pseudocode for Changing Appointment

Initialise Connection to Database

Open Connection to Database

SQLGetAppointment (Query Above)

SQLAppointmentService (Query Above)

IF User Is Not Logged In THEN

    Redirect To Login

ELSE

    IF Paid == 1 THEN

        HIDE Pay Button

    ELSE

        DISPLAY Pay Button

    ENDIF

    IF Change Service Is Clicked THEN

        Redirect To Change Service

        SQLServices (Query Above)

        IF ChangeService Is Selected THEN

            IF NewService Is Empty THEN

                DISPLAY "Please Select A Service For Your Appointment"

            ELSE

                Redirect To Change Appointment Date

                NewDate = NewDate Input

                Redirect To Change Appointment Time

                NewTime = NewTime Input

                SQLChooseMechanic (Query Above)

                IF SQLChooseMechanic Rows > 0 THEN

                    SQLGetCurrentMechanic (Query Above)

                    TotalHoursWorked = TotalHoursWorked - Duration

                    IF Paid == 1 THEN

                        SQLDeletePayment (Query Above)

                    ENDIF

                    SQLUpdateAppointmentAll (Query Above)

```

        SQLUpdateHoursWorked (Query Above)
        SQLAssignNewMechanicToAppointment (Query Above)
        Redirect To Account
    ELSE
        DISPLAY "Failure To Find A Mechanic For Your Appointment."
    ENDIF
ELSE IF Change Appointment Date Is Clicked THEN
    Redirect To Change Appointment Date
    NewDate = NewDate Input
    Redirect To Change Appointment Time
    NewTime = NewTime Input
    IF Update Is Clicked THEN
        SQLChooseMechanic (Query Above)
        IF SQLChooseMechanic Rows > 0 THEN
            SQLGetCurrentMechanic (Query Above)
            TotalHoursWorked = TotalHoursWorked - Duration
            SQLUpdateHoursWorked (Query Above)
            SQLUpdateAppointmentDateAndTime (Query Above)
            SQLAssignNewMechanicToAppointment (Query Above)
            Redirect To Account
        ELSE
            DISPLAY "Failure To Find A Mechanic For Your Appointment."
        ENDIF
    ELSE IF Change Appointment Time Is Clicked THEN
        Redirect To Change Appointment Time
        NewTime = NewTime Input
        IF Update Is Clicked THEN
            SQLUpdateAppointmentTime (Query Above)
            Redirect To Account
        ENDIF
    ELSE
        IF Pay Is Clicked THEN
            Redirect To Payment
            IF CardholderName is Empty THEN
                DISPLAY "Please Enter Cardholders Name"
            ELSE
                CardholderName = CardholderName Input
                IF CardholderName Contains Numbers THEN
                    DISPLAY "Cardholders Name Can Only Contain Letters"
                ENDIF
            ENDIF
            IF (Address Is Empty || PostalCode Is Empty) THEN
                DISPLAY "Please Enter The Billing Address"
            ELSE
                Billing Address = Billing Address Input
                Postal Code = Postal Code Input
            ENDIF
            IF Card Number Is Empty THEN
                DISPLAY "Please Enter Your Card Number"
            ELSE
                Card Number = Card Number Input
                IF Card Number Is In Invalid Format THEN
                    DISPLAY "Card Number Is Invalid"
                ENDIF
            ENDIF
        ENDIF
    ENDIF
ENDIF

```

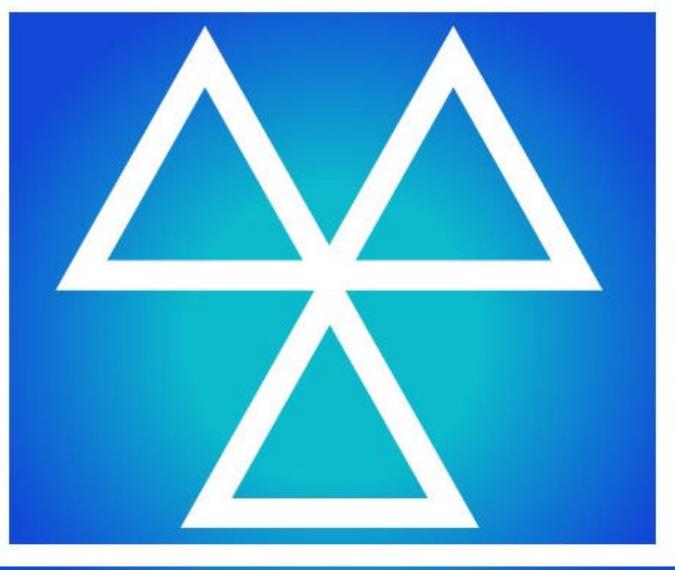
```

IF Card Type is Empty THEN
    DISPLAY "Please Select Your Card Type"
ELSE
    Card Type = CardType Input
ENDIF
IF Expiry Date is Empty THEN
    DISPLAY "Please enter your Card Expiry Date"
ELSE
    Expiry Date = Expiry Date Input
    IF Month Of Expiry Date < "0" || Month Of Expiry Date > "12" THEN
        DISPLAY "The Month Of The Expiry Date Is Invalid"
    ELSE IF Expiry Date Contains Letters THEN
        INSERT INTO BookingErrors "The Expiry Date Is Invalid"
    ELSE IF Expiry Date Month Length < 2 THEN
        DISPLAY "The Month Of The Expiry Date Of Your Card Must Be
        In Format MM"
    ELSE IF Expiry Date Year Length < 4 THEN
        DISPLAY "The Year Of The Expiry Date Of Your Card Must Be
        In Format YYYY"
    ELSE IF (Expiry Date Year <= Current Year && Expiry Date Month < Current
    Month) THEN
        DISPLAY "Your Card Has Expired"
    ENDIF
ENDIF
IF CVV is Empty THEN
    DISPLAY "Please Enter Your Card Verification Value (CVV)"
ELSE
    CVV = CVV Input
    IF (CVV Length < 3 || CVV Contains Letters) THEN
        DISPLAY "Your Card Verification Value (CVV) Is Invalid"
    ENDIF
ENDIF
IF Errors == 0 THEN
    SQLAddPayment (Query Above)
    SQLUpdatePaid (Query Above)
ENDIF
ENDIF
ENDIF

```

*On this page, the customer can change their service, make a payment if not already made, change appointment date or time for any upcoming appointments and depending on the new appointment service and date, a new mechanic is assigned to the service with the previous mechanics total hours worked being reduced from their record in the database as they may no longer be performing that service*

## 12. Change Account Details



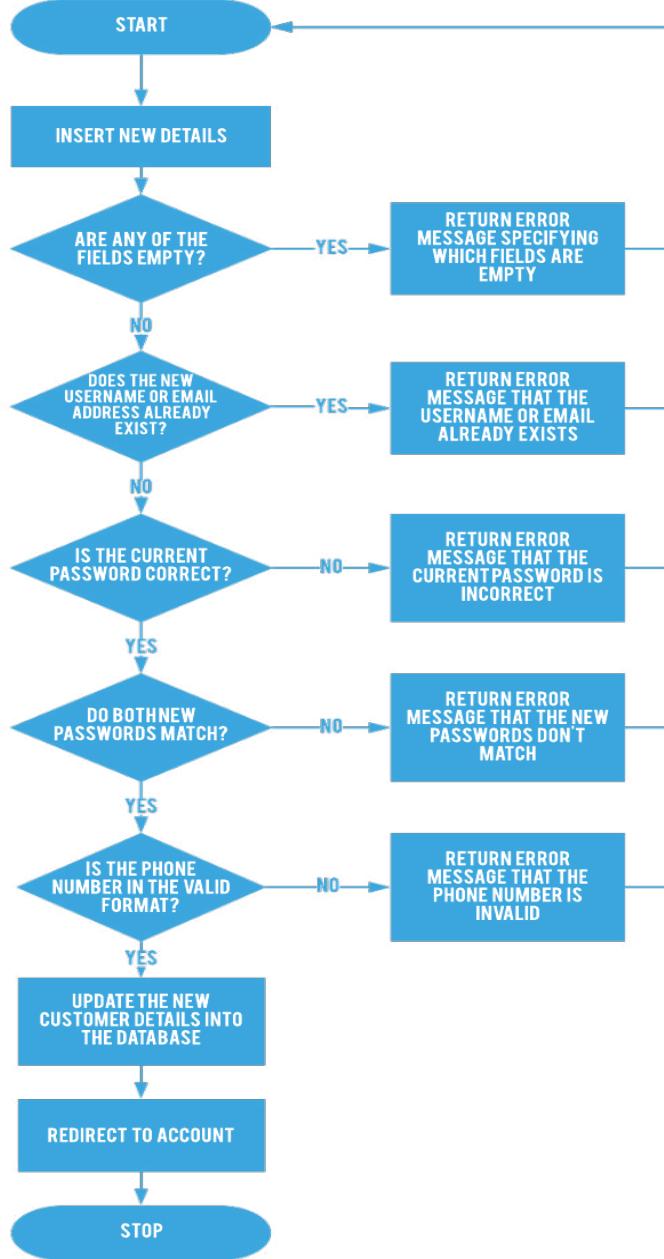
**CHEEKO MOT CENTRE**

### Change Account Details

John	→ Read Only	Smith	→ Read Only
John.Smith@example.com		John_Smith1	
..... (Current Password)		..... (New Password)	
..... (Confirm New Password)		07403729281	
<input checked="" type="checkbox"/> Caps Lock	Password Strength		
<b>UPDATE DETAILS</b>			
Don't have any Details to Change? <a href="#">Return to Account</a>			

Variable	Description
UpdatedUsername	Stores the new username the user has inputted
CurrentPassword	Stores the current password the user has inputted
UpdatedPassword	Stores the new password the user has inputted
ConfirmUpdatedPassword	Stores the confirmation of the new password the user has inputted
UpdatedPhoneNumber	Stores the new phone number the user has inputted
UpdatedEmail	Stores the new email the user has inputted
SQLCustomerDetails	Stores the SQL statement used to get the users' details from the database
SQLExistingEmail	Stores the SQL statement which is used to see if the Email Address already Exists
SQLExistingUser	Stores the SQL statement which is used to see if the Username already Exists
SQLUpdateCustomerDetails	Stores the SQL statement for updating the customerdetails table based on the changes made
ChangingDetailsErrors	An array which stores any error messages
Connection	Establishes connection between the database and the website

## Flowchart for Changing Account Details



## SQL Query for Changing Account Details

**SQLCustomerDetails** = `SELECT * FROM customerdetails WHERE Username='\$UsernameLogin' OR Email='\$UsernameLogin'`

*This SQL statement is used to get the existing details for the customer that is logged in from the database to identify which record is being updated.*

**SQLUpdateCustomerDetails** = `" UPDATE customerdetails SET Email = '$UpdatedEmail', Username = '$UpdatedUsername', PhoneNumber = '$UpdatedPhoneNumber' WHERE Username = '$UsernameLogin'"`

*This SQL statement is used to update the customerdetails table with the users new details based on their inputted values and that specific entities details is changed through the use Username*

```
SQLExistingEmail = "SELECT * FROM customerdetails WHERE Email='$UpdatedEmail' AND Email <> '$CurrentEmail' LIMIT 1";
```

*This SQL statement is to check if the Email Address inserted by the customer is new or if the Email is already in use by another Customer*

```
SQLExistingUser = "SELECT * FROM customerdetails WHERE Username='$UpdatedUsername' AND Username <> '$CurrentUsername' LIMIT 1";
```

*This SQL statement is to verify that the Username the customer has chosen isn't in use by another existing Customer.*

### Pseudocode for Changing Appointment

Initialise Connection to Database

Open Connection to Database

IF Not Logged In THEN

    Redirect to Login

ELSE

    ChangingDetailsErrors = Array()

    If UpdatedEmail Is Empty THEN

        INSERT INTO ChangingDetailsErrors "Email Address Is Required"

    ELSE

        IF UpdatedEmail Is In Invalid Format THEN

            INSERT INTO ChangingDetailsErrors "Email Address Format Is Invalid"

        ELSE

            UpdatedEmail = Email Input

            SQLExistingEmail (Query Above)

            IF SQLExistingEmail == TRUE THEN

                INSERT INTO ChangingDetailsErrors "An Account With This Email Exists"

            ENDIF

        ENDIF

    ENDIF

    If UpdatedUsername Is Empty THEN

        INSERT INTO ChangingDetailsErrors "Username Is Required"

    ELSE

        UpdatedUsername = Username Input

        SQLExistingUsername (Query Above)

        IF SQLExistingUsername == TRUE THEN

            INSERT INTO ChangingDetailsErrors "Account With This Username Exists"

        ELSE

            IF UpdatedUsername Length < 6 || UpdatedUsername Length >15 THEN

                INSERT INTO ChangingDetailsErrors "Username Must Be Between

                6 And 15 Characters In Length"

            ENDIF

        ENDIF

    ENDIF

    If CurrentPassword Is Empty THEN

        INSERT INTO ChangingDetailsErrors "Enter Your Current Password"

    ELSE

        CurrentPassword = CurrentPassword Input

        SQLCustomerDetails (Query Above)

        IF Password <> CurrentPassword THEN

            INSERT INTO ChangingDetailsErrors "Current Password Is Incorrect"

        ELSE

            IF CurrentPassword == UpdatedPassword THEN

```

        INSERT INTO ChangingDetailsErrors "New Password Cannot Be Same
        As Your Current Password"

        ENDIF
    ENDIF
ENDIF
IF UpdatedPassword Is Empty && ConfirmUpdatedPassword Is Not Empty || UpdatedPassword
Is Not Empty && ConfirmUpdatedPassword Is Empty THEN
    INSERT INTO ChangingDetailsErrors "New Passwords Don't Match"
ELSE
    UpdatedPassword = UpdatedPassword Input
    ConfirmUpdatedPassword = ConfirmUpdatedPassword Input
    IF UpdatedPassword <> ConfirmUpdatedPassword THEN
        INSERT INTO ChangingDetailsErrors "New Passwords Don't Match"
    ELSE
        IF UpdatedPassword Is Not Empty & ConfirmUpdatedPassword Is Not Empty
        THEN
            IF UpdatedPassword Length < 6 || UpdatedPassword Length > 15 THEN
                INSERT INTO ChangingDetailsErrors "New Password Must Be
                5 To 16 Characters"
            ENDIF
        ENDIF
    ENDIF
ENDIF
IF UpdatedPhoneNumber Is Empty THEN
    INSERT INTO ChangingDetailsErrors "Phone Number Is Required"
ELSE
    UpdatedPhoneNumber = UpdatedPhoneNumber Input
    IF UpdatedPhoneNumber Format Is Invalid THEN
        INSERT INTO ChangingDetailsErrors "Phone Number Is Invalid"
    ENDIF
ENDIF
IF ChangingDetailsErrors == 0 THEN
    SQLUpdateCustomerDetails (Query Above)
    IF SQLUpdateCustomerDetails == TRUE THEN
        DISPLAY "Your Account Details Have Been Updated Successfully"
    ELSE
        DISPLAY "Your Account Details Have Been Updated Successfully"
    ENDIF
ENDIF
ENDIF

```

*On this page, the customer can change either their email, username, password and phone number linked to their account and through SQL commands, the inputted username and email will be verified to check if already exists in the database and return an error message if it exists. If the details entered are unique, valid and no errors are present, these details will be updated in the database and a message will be returned to the user to confirm to them that these changes have been made.*

### 13. Manager Account (Manager Access Only)



# CHEEKO MOT CENTRE

431 Ilford Lane • IG1 2PG

[Customer Details](#)  
[Services and Prices](#)  
[Staff Details](#)  
[Logout](#)

## Welcome to your Account, Admin

APPOINTMENTS BOOKED IN JULY					
Appointment ID	Date	Service	Paid	Price	Customer ID
#A0277	2020-07-10	MOT (Cars)	YES	£50	#C01
#A0278	2020-07-10	MOT (Cars)	YES	£65	#C020
#A0279	2020-07-11	MOT (Motorcycle)	NO	£50	#C07
#A0280	2020-07-11	Interim Service	YES	£50	#C05

Total Revenue In July:  
£215

TOTAL REVENUE IN JULY:  
£215

AVERAGE REVENUE IN JULY:  
£52.75

MECHANIC RANKINGS:  
(ORDERED BY HOURS WORKED)

- 1. John Smith : 245 Hours
- 2. Mitchell Green : 212 Hours
- 3. Matthew Wade: 200 Hours

MOST COMMON SERVICE IN JULY:  
MOT (Cars)  
Times Booked: 10

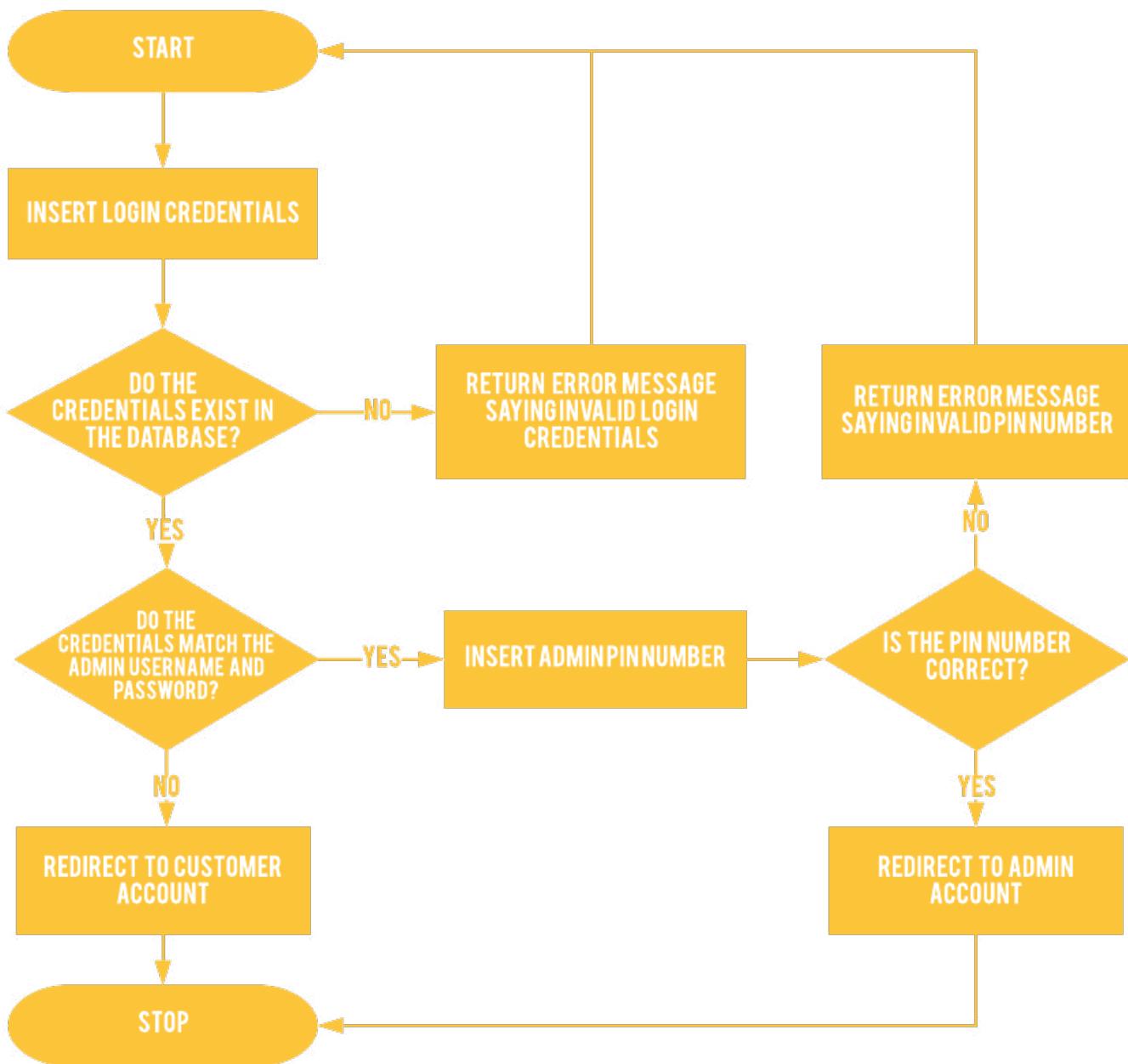
APPOINTMENTS SCHEDULED FOR : 23-01-2021					
Appointment ID	Time	Service	Mechanic	Paid	Customer ID
# A0280	9:00-10:30	Interim Service	John Smith	YES	# C05
# A0281	12:00-12:30	Diagnostic Check	John Smith	NO	#C03

CORPORATE TAX CALCULATOR					
TAX PERCENTAGE (%)					
TOTAL REVENUE					
TOTAL COST					
RESULT					

## FOOTER

Variable	Description
SQLMonthlyAppointmentDetails	Stores the SQL statement to select all the appointments booked for that current month from the database
SQLTotalRevenue	Stores the SQL statement to calculates the total amount of money made/going to be made from all the appointments booked in the current month
SQLAverageRevenue	Stores the SQL statement to calculates the amount of money made/going to be made from each appointment booked in the current month
SQLStaffDetails	Stores the SQL statement to get the details of the staff from the database
SQLTodayAppointments	Stores the SQL statement to get the details of the appointments scheduled today from the database table
SQLMostCommonService	Stores the SQL statement to get the name of the service which has been booked for the most in the current month
CurrentDate	Stores the current date
Connection	Establishes connection between the database and the website

Flowchart for Access To Admin Account



### SQL Query for Changing Account Details

**SQLMonthlyAppointmentDetails** = SELECT \* FROM appointmentdetails WHERE MONTH('\$CurrentDate') = MONTH(AppointmentDate);

*This SQL statement is used to get the records for all the appointments booked in the current month from the database*

**SQLTotalRevenue** = SELECT SUM(TotalPrice) FROM appointmentdetails WHERE MONTH('\$Today') = MONTH(AppointmentDate);

*This SQL statement is used calculate the total amount made from sales in the current month by adding up the total price paid by customers for their booked appointments in that month using the SUM() function.*

**SQLAverageRevenue** = SELECT AVG(TotalPrice) FROM appointmentdetails WHERE MONTH('\$Today') = MONTH(AppointmentDate);

*This SQL statement is used calculate the money received per appointment booked in the current month through the use of the AVG() function in SQL*

**SQLStaffDetails** = SELECT SUM(TotalHoursWorked), FullName FROM mechanics GROUP BY FullName ORDER BY SUM(TotalHoursWorked) DESC LIMIT 3;

*This SQL statement is used to get the names of the mechanic which has worked the most hours in the MOT Centre through the use of the SUM function in SQL as well as grouping the mechanics by their names.*

**SQLMostCommonService** = SELECT ServiceID, COUNT(ServiceID) FROM appointmentdetails WHERE

MONTH('\$Today') = MONTH(AppointmentDate) GROUP BY ServiceID ORDER BY COUNT(ServiceID) DESC LIMIT 1;

*This SQL statement is used to get the service type that has most commonly been booked in the current month at the MOT Centre through the use of a sub-query.*

**SQLMostCommonService** = SELECT appointmentdetails.AppointmentID,  
appointmentdetails.AppointmentStartTime, appointmentdetails.AppointmentEndTime,  
appointmentdetails.Paid, appointmentdetails.CustomerID, services.ServiceName FROM  
appointmentdetails LEFT JOIN services ON appointmentdetails.ServiceID = services.ServiceID WHERE  
AppointmentDate = '\$Today';

*This SQL statement is used to get the details of the appointment that are scheduled for the current day from multiple tables through LEFT JOIN.*

### Pseudocode for Manager Account

Initialise Connection to Database

Open Connection to Database

IF Admin Username and Password Is Correct THEN

    DISPLAY "Enter the PIN Number for Manager Access"

    IF PIN Is Correct THEN

        Redirect to Manager Account

    ELSE

        DISPLAY "PIN Number is Incorrect"

        Redirect to Login

    ENDIF

ENDIF

*This page has access limited to only the manager. Here, they will be able to have access to the details of all the booked appointments, find the revenue for the current month, have access to the details of the customers that have accounts registered with the MOT Centre, view the details of the employed staff and the hours they have worked as well as see the services offered and their prices. In order for the manager to log in, they will have a username and password given by me and for further security, they will have to enter a pin number in order to access the account in order to protect the data of the customers and MOT Centre by adding another layer of defence to enter this restricted page.*

## 14. Customer Details (Manager Access Only)



# CHEEKO MOT CENTRE

431 Ilford Lane - IG1 2PG

Account

Services and Prices

Mechanic Details

[Logout](#)

## CUSTOMER DETAILS

CUSTOMER ID	FULL NAME	USERNAME	EMAIL	PHONE NUMBER	DELETE
#C02	Joe Smith	Joe.Smith1	Joe.Smith@gmail.com	07402811718	DELETE
#C03	Chris Smith	Chris_1S	chris_smith1@live.com	0787874273	DELETE
#C04	Matthew Wade	Matthew_Wade	<a href="mailto:Wade1988@yahoo.com" style="color: blue;">Wade1988@yahoo.com</a>	07305768765	DELETE

**CUSTOMER RANKINGS**  
(ORDER BY APPOINTMENTS BOOKED)

1.	JOE SMITH : 17 BOOKED
2.	CHRIS SMITH : 12 BOOKED
3.	MATTHEW WADE : 10 BOOKED

## FOOTER

Variable	Description
SQLCustomerDetails	Stores the SQL statement to get all customers details excluding the manager
SQLCustomerRankings	Stores the SQL statement to get the name of customers with most booked appointments and their count
SQLDeleteCustomer	Stores the SQL statement used to delete a customer when the manager presses the delete button
Connection	Establishes connection between the database and the website

### SQL Query for Customer Details

**SQLCustomerDetails** = SELECT \* FROM customerdetails WHERE CustomerID <> 1

*This SQL statement is used to get all customers detail from the database excluding the manager who has ID 1.*

**SQLCustomerRankings** = SELECT COUNT(appointmentdetails.AppointmentID) AS Total, customerdetails.FirstName, customerdetails.LastName FROM customerdetails INNER JOIN appointmentdetails ON customerdetails.CustomerID = appointmentdetails.CustomerID GROUP BY customerdetails.CustomerID ORDER BY Total DESC LIMIT 3;

*This SQL statement is used to get the customers that have booked the most appointments and the count of it through joining tables with INNER JOIN at the MOT centre*

**SQLDeleteCustomer** = DELETE FROM customerdetails WHERE CustomerID = '\$ID'

*This SQL statement is used to delete the customer from the database table and erase all their associated records when the manager clicks DELETE*

### **Pseudocode for Customer Details**

```
Initialise Connection to Database
Open Connection to Database
IF Manager Is Not Logged In THEN
    Redirect To Login
ELSE
    SQLCustomerDetails (Query Above)
    SQLCustomerRankings (Query Above)
    IF Delete Customer Is Clicked THEN
        DISPLAY "Are You Sure You Want To Delete The Customer Details?"
        IF YES Is Clicked THEN
            SQLDeleteCustomer (Query Above)
        ENDIF
    ENDIF
ENDIF
ENDIF
```

## **15. Services And Prices (Manager Access Only)**

SERVICE DETAILS					
	SERVICE ID	NAME	PRICE	DURATION (MINUTES)	REMOVE
Logout	#S01	MOT (Motorcycle)	£40	45	REMOVE
	#S02	MOT (Cars)	£50	60	REMOVE
	#S03	Engine Oil And Filter Change	£50	45	REMOVE
	#S04	Diagnostic Check	£60	40	REMOVE
	#S05	Interim Service	£100	60	REMOVE
	#S06	Interim Service + MOT	£150	150	REMOVE
	#S07	Full Service	£175	120	REMOVE

**FOOTER**

Variable	Description
Name	Stores the new service name
Duration	Store the length of time the new service takes to complete
Price	Stores the price of the new service
SQLServices	Stores the SQL statement used to get the details of all the services stored in the database
SQLDeleteService	Stores the SQL statement used to delete a service when the manager clicks the remove button
SQLInsertService	Stores the SQL statement used to insert a new service
SQLExistingService	Stores the SQL statement used to check if the new service being inserted already exists or not
Connection	Establishes connection between the database and the website

### SQL Query for Service Details

**SQLServices** = SELECT \* FROM services

*This SQL statement is used to get all service detail from the database that the MOT Centre offer*

**SQLDeleteService** = DELETE FROM services WHERE ServiceID = '\$ServiceID'

*This SQL statement is used to delete the service from the database table when the user clicks the remove button*

**SQLInsertService** = INSERT INTO `services`(`ServiceName`, `ServicePrice`, `Duration`) VALUES ('\$ServiceName', '\$Price', '\$Duration')

*This SQL statement is used to insert a new service into the database*

**SQLExistingService** = SELECT \* FROM services WHERE ServiceName = '\$ServiceName' LIMIT 1

*This SQL statement is used to check if the service name for the new service being inserted already exists in the database in order to prevent any duplicate services being created.*

### Pseudocode for Service Details

Initialise Connection to Database

Open Connection to Database

IF Manager Is Not Logged In THEN

    Redirect To Login

ELSE

    SQLServices (Query Above)

    IF Add Service Is Clicked THEN

        Name = Name Input

        Duration = Duration Input

        Price = Price Input

        IF Name Is Empty THEN

            DISPLAY "Service Name Is Required"

        ELSE IF Name Contains Numbers Or Symbols THEN

            DISPLAY "Service Name Cannot Contain Numbers Or Symbols"

        ELSE

            IF SQLExistingService (Query Above) Rows > 0 THEN

                DISPLAY "A Service With This Name Already Exists"

            ENDIF

        ENDIF

        IF Duration Is Empty THEN

            DISPLAY "Service Duration Is Required"

        ELSE IF Duration <= 0 THEN

            DISPLAY "Service Duration Cannot Be Negative"

        ELSE

            IF Duration Is Not A Number THEN

```
        DISPLAY "Please Enter A Number"
        ENDIF
    ENDIF
    IF Price Is Empty THEN
        DISPLAY "Service Price Is Required"
    ELSE IF Price < 0 THEN
        DISPLAY "Service Price Cannot Be Negative"
    ELSE
        IF Price Is Not A Number THEN
            DISPLAY "Please Enter A Number"
        ENDIF
    ENDIF
    IF Errors == 0 THEN
        SQLInsertService (Query Above)
        DISPLAY "THE NEW SERVICE HAS SUCCESSFULLY BEEN INSERTED"
    ENDIF
    ENDIF
    IF Delete Service Is Clicked THEN
        SQLDeleteService (Query Above)
        DISPLAY "THE SERVICE HAS SUCCESSFULLY BEEN DELETED"
    ENDIF
ENDIF
```

## 16. Mechanic Details (Manager Access Only)



# CHEEKO MOT CENTRE

431 Ilford Lane - IG1 2PG

- Account
- Customer Details
- Services And Prices
- Logout

**ADD NEW MECHANIC**

**Name**

**Select Mechanic Type**

**Day Of Week Not Working**

## MECHANICS DETAILS

NAME	TOTAL HOURS WORKED	DAY OF WEEK NOT WORKING
ARUN MAINI	175 HOURS 25 MINS	WEDNESDAY
SHAUN MARSH	2 HOURS 0 MINS	THURSDAY
HAROUN ALI	100 HOURS 10 MINS	WEDNESDAY
JONATHAN GREEN	270 HOURS 25 MINS	MONDAY
RICHARD CARTER	75 HOURS 30 MINS	SATURDAY
AARON SMITH	150 HOURS 5 MINS	FRIDAY
SAMUEL MUSKWE	0 HOURS 0 MINS	TUESDAY

## FOOTER

Variable	Description
FullName	Stores the new mechanics full name
MechanicType	Stores the service the new mechanic is a specialist in performing
DayOfWeekNotWorking	Stores the day of the week the mechanic isn't working
Days	Array which stores the day and its corresponding name in text
SQLMechanicDetails	Stores the SQL statement used to get the mechanics details
SQLInsertMechanic	Stores the SQL statement used to insert a new mechanic into the mechanics table
SQLServices	Stores the SQL statement used to get the name of the services
Connection	Establishes connection between the database and the website

### SQL Query for Mechanic Details

**SQLServices** = SELECT ServiceName FROM services

*This SQL statement is used to get all service names from the database that the MOT Centre offer*

**SQLMechanicDetails** = SELECT SUM(TotalHoursWorked) as TotalHours, FullName, DayOfWeekNotWorking FROM mechanics GROUP BY FullName ORDER BY FullName ASC

*This SQL statement is used to get the details of all the mechanics that work at the MOT centre*

**SQLInsertMechanic** = INSERT INTO `mechanics`(`FullName`, `MechanicType`, `TotalHoursWorked`, `DayOfWeekNotWorking`) VALUES ('\$FullName','\$MechanicType','0','\$DayOfWeekNotWorking')

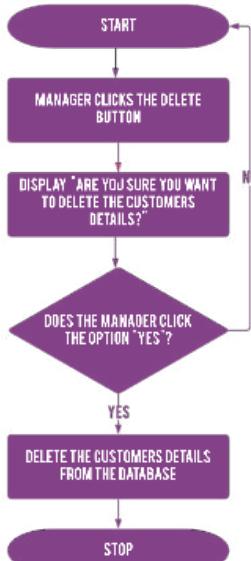
*This SQL statement is used to insert the details of the new mechanics into the database table*

## Pseudocode for Mechanic Details

```
Initialise Connection to Database
Open Connection to Database
IF Manager Is Not Logged In THEN
    Redirect To Login
ELSE
    Days = Array(1 => "Sunday", 2 => "Monday", 3 => "Tuesday", 4 => "Wednesday", 5 => "Thursday",
                 6 => "Friday", 7 => "Saturday")
    SQLServices (Query Above)
    SQLMechanicDetails (Query Above)
    IF Add Staff Is Clicked THEN
        FullName = FullName Input
        MechanicType = MechanicType Input
        DayOfWeekNotWorking = DayOfWeekNotWorking Input
        IF FullName Is Empty THEN
            DISPLAY "Mechanic Name Is Required"
        ELSE
            IF FullName Contains Numbers Or Symbols THEN
                DISPLAY "Name Cannot Contain Numbers Or Symbols"
            ENDIF
        ENDIF
        IF MechanicType Is Not Selected THEN
            DISPLAY "Mechanic Type Is Required"
        ENDIF
        IF DayOfWeekNotWorking Is Not Selected THEN
            DISPLAY "Day Of Week Not Working Is Required"
        ENDIF
        IF Errors == 0 THEN
            SQLInsertMechanic (Query Above)
            DISPLAY "THE NEW MECHANIC HAS SUCCESSFULLY BEEN INSERTED"
        ENDIF
    ENDIF
ENDIF
```

ENDIF

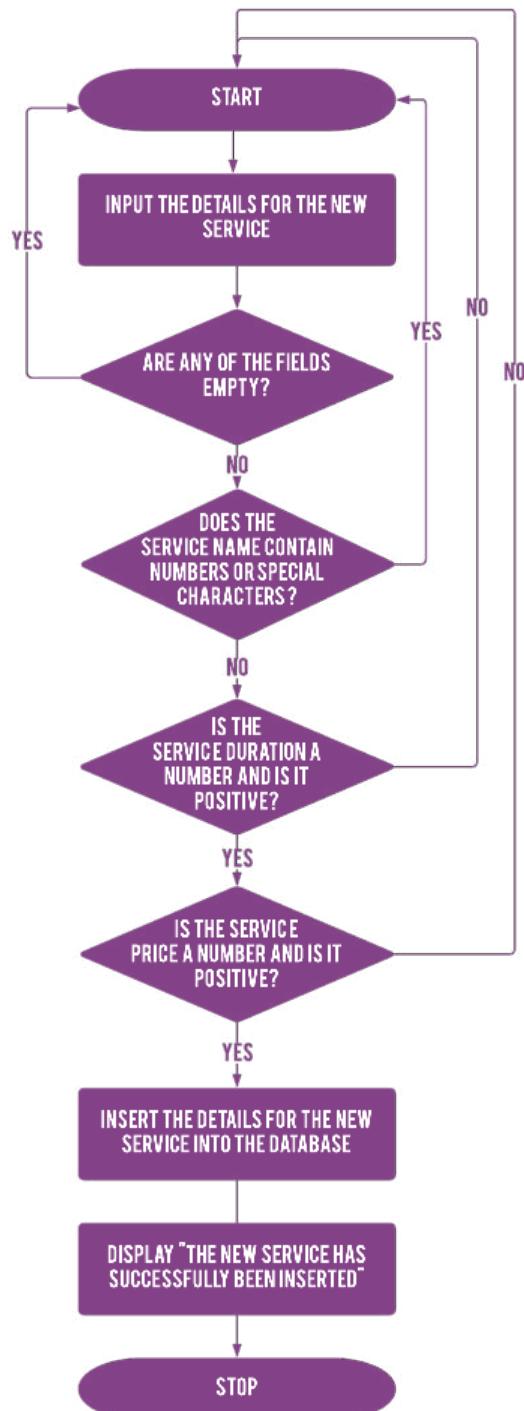
## Flowchart for Deleting Customers



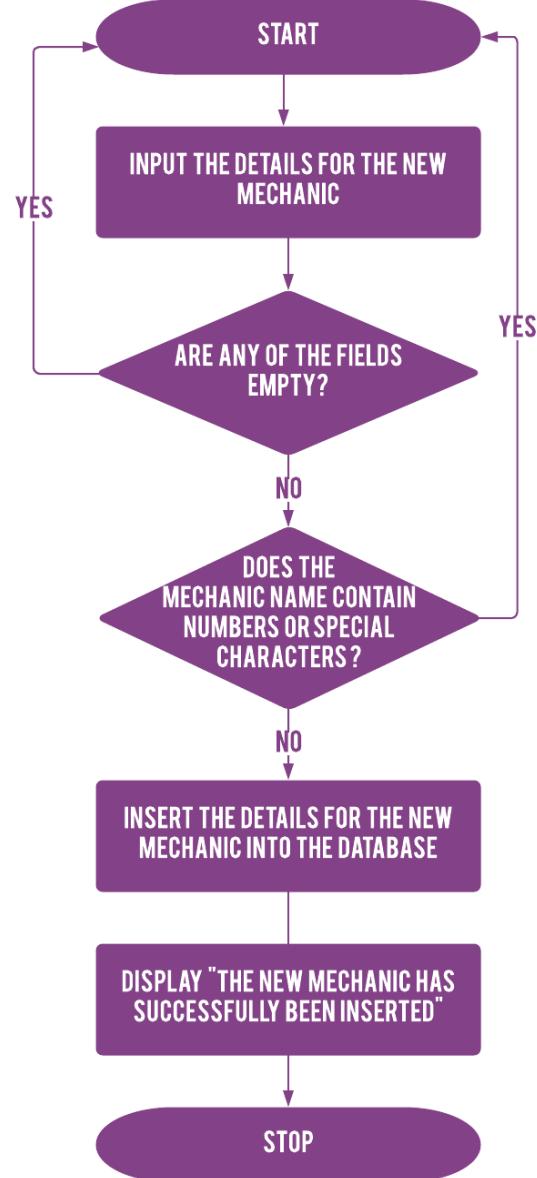
## Flowchart for Removing Services



Flowchart for Inserting New Services



Flowchart for Inserting New Mechanics



## 17. Manager Report Details (Manager Access Only)



# CHEEKO MOT CENTRE

431 Ilford Lane • IG12PG

## MONTHLY REPORT : FEBRUARY

### CHEEKO MOT CENTRE

431 Ilford Lane  
Ilford, Essex  
IG1 2PG  
020 8514 0404

### MANAGER DETAILS

Name: Aaron Smith  
Email: cheeko.mot.centre.ilford@gmail.com

*Aaron Smith*

### DETAILS OF BOOKED APPOINTMENTS

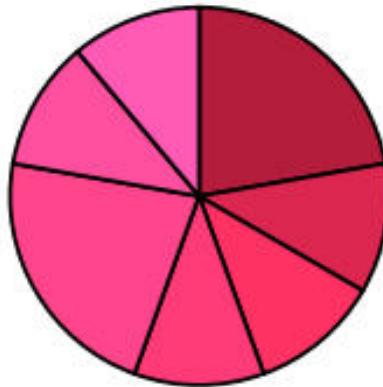
Booking Reference	Price	Service Type	Date	Mechanics Name
#A08	£60.00	Diagnostic Check	01-02-2021	Muhammad Hussain
#A09	£175.00	Full Service	09-02-2021	Matthew Smith
#A010	£175.00	Full Service	01-02-2021	Matthew Smith
#A011	£300.00	Number Plate	01-02-2021	Matthew Smith
#A012	£225.00	Full Service + MOT	15-02-2021	Matthew Smith
#A013	£300.00	Brake Pad Replacement	02-02-2021	Haroun Ali
#A014	£60.00	Air Conditioning Recharge (R134A)	01-02-2021	Zeeshan Ali
#A015	£50.00	Engine Oil And Filter Change	03-02-2021	Arun Maini
#A016	£60.00	Air Conditioning Recharge (R134A)	03-02-2021	Sarfaraz Ansar

**TOTAL REVENUE: £1405.00 (INCREASE BY 680.56% FROM LAST MONTH)**

### PERFORMANCE DETAILS FOR MECHANICS IN FEBRUARY

Mechanics Name	Services Performed	Hours Worked	Day Of Week Not Working
Arun Maini	1	0 HRS 45 MINS	Monday
Haroun Ali	1	1 HRS 0 MINS	Thursday
Matthew Smith	4	7 HRS 50 MINS	Wednesday
Muhammad Hussain	1	0 HRS 40 MINS	Tuesday
Sarfaraz Ansar	1	0 HRS 45 MINS	Monday
Zeeshan Ali	1	0 HRS 45 MINS	Saturday

STATISTICS OF FEBRUARY			
Appointments	Percentage Change in Appointments	Average Revenue	Total Hours Of Service
9	+200% FROM LAST MONTH	£156.11	11 HRS 45 MINS



SERVICES PERFORMED IN FEBRUARY	
Service Name	Count
Air Conditioning Recharge (R134A)	2
Brake Pad Replacement	1
Diagnostic Check	1
Engine Oil And Filter Change	1
Full Service	2
Full Service + MOT	1
Number Plate	1

Variable	Description
SQLPreviousMonthAppointment	Stores the SQL statement used to retrieve details about the previous month appointment count and earnings
SQLCurrentMonthAppointment	Stores the SQL statement used to retrieve details about the current month appointment count and earnings
MonthlyAppointmentDifference	Stores the number of more/less appointments booked than last month
SQLMonthAppointmentDetails	Stores the SQL statement used to retrieve details about the current month appointments
CurrentMonthAppointments	Stores the number of booked appointments in the current month
PreviousMonthAppointments	Stores the number of booked appointments in the last month
SQLRevenue	Stores the SQL statement used to retrieve details about total and average revenue for the current month
SQLMechanicDetails	Stores the SQL statement used to get the details of the mechanics
PercentageChangeInTR	Stores the percentage change in total revenue from the previous month
Connection	Establishes connection between the database and the website

### SQL Query for Manager Report

**SQLPreviousMonthAppointment** = SELECT COUNT(\*) AS AppointmentsBooked, SUM(TotalPrice) AS LastTotalRevenue FROM appointmentdetails WHERE MONTH(AppointmentDate) = MONTH('\$PreviousMonthDate')

*This SQL statement is used to get store the number of appointments that were booked last month and the total earning in that month in order to do month-on-month comparison*

**SQLCurrentMonthAppointment** = SELECT COUNT(\*) AS AppointmentsBooked FROM appointmentdetails WHERE MONTH(AppointmentDate) = MONTH('\$Date')

*This SQL statement is used to get store the number of appointments that were booked in the month and the total earning in that month in order to do month-on-month comparison*

**SQLMonthAppointmentDetails** = SELECT \* FROM appointmentdetails WHERE MONTH(AppointmentDate) = MONTH('\$Date')

*This SQL statement is used to get all the details of the appointments booked on the current month*

**SQLRevenue** = SELECT SUM(TotalPrice), AVG(TotalPrice) FROM appointmentdetails WHERE MONTH('\$Date') = MONTH(AppointmentDate)

*This SQL statement is used to calculate the total and average revenue earned in the current month*

**SQLMechanicDetails** = SELECT SUM(services.Duration) AS Duration, COUNT(mechanics\_on\_appointment.AppointmentID) AS ServicesPerformed, mechanics.FullName, mechanics.DayOfWeekNotWorking FROM services INNER JOIN appointmentdetails ON appointmentdetails.ServiceID = services.ServiceID INNER JOIN mechanics\_on\_appointment ON mechanics\_on\_appointment.AppointmentID = appointmentdetails.AppointmentID INNER JOIN mechanics ON mechanics\_on\_appointment.MechanicID = mechanics.MechanicID WHERE MONTH(appointmentdetails.AppointmentDate) = MONTH('\$Date') GROUP BY mechanics.FullName;

*This SQL statement is used to get all the details of the mechanics by inner joining 4 different tables in order to calculate the total hours worked by the mechanic in the current month, the number of services performed and the day of the week they are off.*

### Pseudocode for Manager Report

Initialise Connection to Database

Open Connection to Database

IF Manager Is Not Logged In THEN

    Redirect To Login

ELSE

    CREATE NEW PDF

    SQLPreviousMonthAppointment (Query Above)

    SQLCurrentMonthAppointment (Query Above)

    SQLMonthAppointmentDetails (Query Above)

    SQLRevenue (Query Above)

    SQLMechanicDetails (Query Above)

    MonthlyAppointmentDifference = CurrentMonthAppointments – PreviousMonthAppointments

    PercentageChangeInTR = ((CurrentMonthTotalRevenue – LastMonthTotalRevenue) ÷ (LastMonthTotalRevenue)) × 100

    IF PercentageChangeInTR > 0 THEN

        DISPLAY "+" PercentageChangeInTR "FROM LAST MONTH"

    ELSE IF PercentageChangeInTR < 0 THEN

        DISPLAY "-" PercentageChangeInTR "FROM LAST MONTH"

    ELSE

        DISPLAY "0% CHANGE FROM LAST MONTH"

    ENDIF

```
OUTPUT PDF
ENDIF
```

## 2.9 User Interface Rationale

1. All the backgrounds images that will be present on my website will be designed by myself through software's such as Adobe Illustrator and Photoshop with the main purpose of producing designs that reflect the business such as their logo or vehicles which would therefore mean that the images will be vector graphics and wouldn't be affected by enlargement unlike bitmap graphics as well as being copyright free.
2. Since I am using a graphical user interface, I intend to make the website simplistic for the user to navigate through so that people who aren't experienced in the use of computers can also book appointments with ease.
3. On all pages, I will have either a horizontal or vertical navigation bar which will clearly inform customers what pages it links to so users can easily find direct themselves through the website and access the services they wish. The navigation bar will be present on all pages which increases efficiency as the user can easily get onto various pages rather than having to return to the home page to access different parts of the website.
4. The theme colours of the website will be RGB (Red, Green, Blue) as it relates to the colours present in the logo of the company and aren't too vibrant nor too dark.
5. The layout and design will remain constant through most of the website to give it a uniform and polished look which will make it more attractive as a finished product.
6. The primary font I wish to use is Poppins which will be present in most pages with some secondary fonts as well such as Lato and Open Sans as they aesthetically pleasing as well as easy to read as they hold a level of simplicity rather than many other extravagant fonts.
7. The information on pages will be spread out rather than being tight through the use of margins and paddings in order for the user to be able to distinguish separate information and pages will be well labelled with subheading to ensure there is no sense of confusion and to minimise the time taken for customers in booking appointments or any other part of the website they wish to access as well as giving it a clean look.
8. Finally, error messages will be clearly visible at the top of forms in red colour text and a red coloured box to alert the user of the necessary changes that need making in order for the form to be accepted.

### 3 TECHNICAL SOLUTIONS:

#### 3.1 Table

Page Name	Objective	Complexity	Pages	Objective
Homepage	The page that users will view when they initially enter the website	Medium	86-88	1
Navigation Bar	Will be at the top of all pages which will allow users to navigate themselves to different pages of the website	Medium	89	1
Footer	Will be at the bottom of all pages which will include a link to other pages as well as the socials and address of the MOT Centre	Low	90	1
Services	A page which displays a description of all the services offered at the MOT Centre and what is included in them, why they are important as well as their prices to increase customer knowledge	Medium	91-95	2
Contact Us	A page which displays the address, phone number, a map to show the location of the MOT Centre, a feedback form as well as links to the social media pages of the MOT Centre which will allow customers to contact them in other ways or leave comments/reviews on their services	High	96-99	3
Database Connection Page	Connects the database to the website in order to insert, select, update and delete data from the database tables	Low	99	11, 12
Login	Allows the user to login to their personal account after verifying that an account with that username and password exists in the database table.	High	99-100	4, 12A, 13B, 13C
Signup	Allows the user to create a new account after they input unique, valid and secure information with their details being inserted into the appropriate table.	High	101-104	5 (All) 6 (All) 7 12A, 12B, 13B, 13C
New Account Page	A page which welcomes new users to their account and notifies them of all the facilities they can access as accountholders before they are redirected and permitted entry into their new account	Low	105-106	12A, 13B
Customer Account	The page which users first view when they log in which allows them to access different parts of their account and they can view their all their appointments/payments history as well as the vehicles registered to their account and other details	Medium	106-110	8 (All) 12 (All) 13 (All)
Change Account Details	Allows the user to alter their username, password, phone number or email address with the details being verified to see if they aren't valid or if they currently exist in the database before the details are updated into the database	High	110-114	8H, 12A, 13A, 13B, 13C
Register Vehicle	The user can register their vehicle to their account by entering their vehicle details with a maximum of three vehicles that can be added per account.	High	114-119	8A, 12B, 13A, 13B, 13C

Change Vehicle Details	The user can alter the details of the registration number, current mileage and the air conditioning refrigerant type of their vehicle with those amended details being updated into the database	High	119-121	8B, 12B, 13A, 13B, 13C
Delete Vehicle	Deletes the vehicle from the account of the user and from the database	Low	121	8B, 12B, 13C, 13E
Book Appointment	Allows the user to book a new appointment through a multi-step form where they can also pay (optional)	High	121-134	8C, 8D, 11, 12 (All), 13A, 13B, 13C
Booking Invoice	This page is used to create a PRF for the customer once the appointment is booked that contains information about the appointment booked e.g., appointment date, time, reference number, vehicle registration number and service as well as payment details if the payment was made online. It also contains a fully working QR code which can be scanned to identify the Appointment ID the invoice is for	High	135-136	9, 12C, 12D, 12F
Change Appointment	Allows the user to alter the details of an upcoming appointment such as the date and time with the changes being updated into the appropriate tables	High	136-145	8F, 11, 12 (All),
Cancel Appointment	Allows the user to cancel their appointment with the customer receiving a refund if they have paid for their appointment	Medium	145	8G
Managers Account	This account has restricted access to the manager only where they can see the total earnings, number of appointments and other details from the database	High	146-151	10 (All)
Customer Details (Manager Only)	The manager can view the details of all the customers that are registered to the MOT Centre	Medium	151-153	10B
Services and Prices (Manager Only)	The manager can view all the services offered by the MOT Centre and can change their prices if he wishes	Medium	154-157	10D
Mechanic Details (Manager Only)	The manager can view the details of the staff that work at the MOT Centre and the days they don't work as well as the total hours they have worked in performing services at the MOT Centre	Medium	157-159	10C
Manager Monthly Report	This page is used to create a PDF report for the manager which contains the total revenue, average revenue, booked appointments and the hours worked by the mechanics in the current month by joining four tables together using INNER JOIN	High	160-162	10F
Logout	Allows the user and manager to log out of their personal account and redirect them to the homepage once they have successfully logged out (Manager and Customer)	Low	162	-

## 3.2 Database Relationships

```
CREATE TABLE customerdetails(
    CustomerID INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    FirstName varchar(30) NOT NULL,
    LastName varchar(30) NOT NULL,
    Email varchar(50) NOT NULL,
    Username varchar(30) NOT NULL,
    Password varchar(15) NOT NULL,
    PhoneNumber char(11) NOT NULL,
    Gender varchar(6) NOT NULL,
    Status varchar(7) NOT NULL
);
```

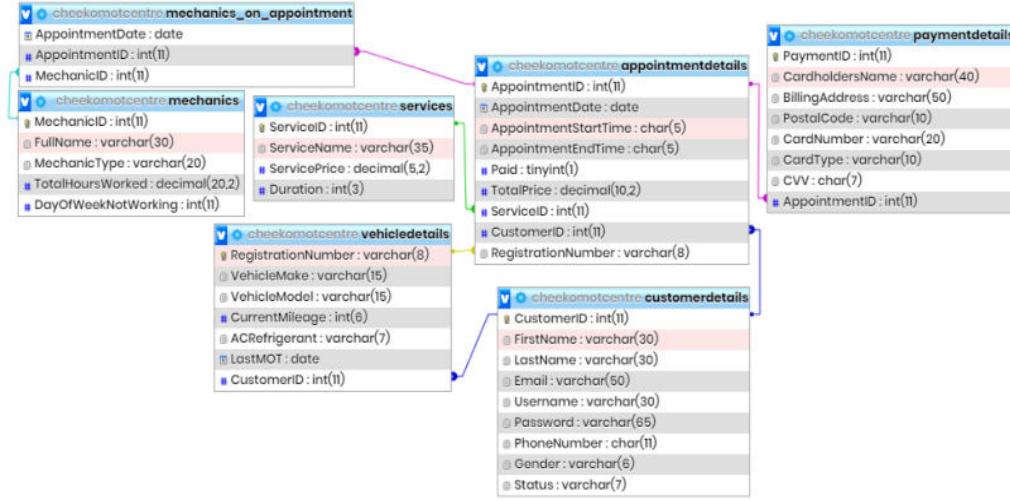
```
CREATE TABLE vehicledetails(
    RegistrationNumber varchar(8) NOT NULL PRIMARY KEY,
    VehicleMake varchar(15) NOT NULL,
    VehicleModel varchar(15) NOT NULL,
    CurrentMileage int(6) NOT NULL,
    ACRefrigerant varchar(7) NOT NULL,
    LastMOT date NOT NULL,
    CustomerID INT,
    FOREIGN KEY (CustomerID) REFERENCES customerdetails(CustomerID)
);
```

```
CREATE TABLE services(
    ServiceID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    ServiceName Varchar(10) NOT NULL,
    ServicePrice Decimal(5,2) NOT NULL,
    Duration INT(3)
);
```

```
CREATE TABLE paymentdetails(
    PaymentID INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    CardholdersName VARCHAR(40) NOT NULL,
    BillingAddress VARCHAR(50) NOT NULL,
    PostalCode VARCHAR(10) NOT NULL,
    CardNumber VARCHAR(20) NOT NULL,
    CardType VARCHAR(10) NOT NULL,
    CVV CHAR(4) NOT NULL,
    AppointmentID INT,
    FOREIGN KEY (AppointmentID) REFERENCES appointmentdetails(AppointmentID) ON DELETE CASCADE
);
```

```
CREATE TABLE appointmentdetails(
    AppointmentID INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    AppointmentDate Date NOT NULL,
    AppointmentStartTime Char(5) NOT NULL,
    AppointmentEndTime Char(5) NOT NULL,
    Paid BOOLEAN NOT NULL,
    TotalPrice Decimal(10,2) NOT NULL,
    ServiceID INT,
    CustomerID INT,
    RegistrationNumber VARCHAR(8),
    FOREIGN KEY (ServiceID) REFERENCES services(ServiceID),
    FOREIGN KEY (CustomerID) REFERENCES customerdetails(CustomerID) ON DELETE CASCADE,
    FOREIGN KEY (RegistrationNumber) REFERENCES vehicledetails(RegistrationNumber) ON DELETE CASCADE
);
```

```
CREATE TABLE mechanics_on_appointment(
    AppointmentDate DATE NOT NULL,
    AppointmentID INT,
    MechanicID INT,
    FOREIGN KEY (AppointmentID) REFERENCES appointmentdetails(AppointmentID) ON DELETE CASCADE,
    FOREIGN KEY (MechanicID) REFERENCES mechanics(MechanicID) ON DELETE CASCADE
);
```



```
CREATE TABLE mechanics(
    MechanicID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    FullName Varchar(30) NOT NULL,
    MechanicType Varchar(10) NOT NULL,
    TotalHoursWorked Decimal(20,2) NOT NULL,
    DayOfWeekNotWorking INT NOT NULL
);
```

## Customer Details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>CustomerID</b> 	int(11)			No	None		AUTO_INCREMENT	 Change  Drop  More
2	<b>FirstName</b>	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop  More
3	<b>LastName</b>	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop  More
4	<b>Email</b>	varchar(50)	utf8mb4_general_ci		No	None			 Change  Drop  More
5	<b>Username</b>	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop  More
6	<b>Password</b>	varchar(65)	utf8mb4_general_ci		No	None			 Change  Drop  More
7	<b>PhoneNumber</b>	char(11)	utf8mb4_general_ci		No	None			 Change  Drop  More
8	<b>Gender</b>	varchar(6)	utf8mb4_general_ci		No	None			 Change  Drop  More
9	<b>Status</b>	varchar(7)	utf8mb4_general_ci		No	None			 Change  Drop  More

CustomerID	FirstName	LastName	Email	Username	Password	PhoneNumber	Gender	Status
1	Aaron	Smith	cheeko.mot.centre.ilford@gmail.com	Admin_1	\$2y\$10\$Gj3Fd3BOe		Male	Online
3	Rao Khaleeq Ur	Rehman	raokhaleeq@yahoo.com	raokhaleeq	\$2y\$10\$Nobp7rhZj	07403100586	Male	Offline
4	Rao Ali	Hasan	S1900762@leyton.ac.uk	S1900762	\$2y\$10\$Viol8n0uU	07305758674	Male	Offline
5	Steve	Smith	Steve.Smith2021@yahoo.com	Steve_2021	\$2y\$10\$zuQQPOjkx	07406711876	Male	Offline
6	Ali	Hasan	alirao2880@gmail.com	Ali_Hasan1	\$2y\$10\$AB76nqKiN	07305758674	Male	Offline

## Vehicle Details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>RegistrationNumber</b> 	varchar(8)	utf8mb4_general_ci		No	None			 Change  Drop  More
2	<b>VehicleMake</b>	varchar(15)	utf8mb4_general_ci		No	None			 Change  Drop  More
3	<b>VehicleModel</b>	varchar(15)	utf8mb4_general_ci		No	None			 Change  Drop  More
4	<b>CurrentMileage</b>	int(6)			No	None			 Change  Drop  More
5	<b>ACRefrigerant</b>	varchar(7)	utf8mb4_general_ci		No	None			 Change  Drop  More
6	<b>LastMOT</b>	date			No	None			 Change  Drop  More
7	<b>CustomerID</b> 	int(11)			Yes	NULL			 Change  Drop  More

←	→	RegistrationNumber	VehicleMake	VehicleModel	CurrentMileage	ACRefrigerant	LastMOT	CustomerID
 Edit	 Copy	 Delete	FT62TZJ	Toyota	Yaris	98500	R1234YF	2021-01-12
 Edit	 Copy	 Delete	OE08 KSO	Audi	A4	187500	R134A	2020-11-06
 Edit	 Copy	 Delete	OE10 EEN	Honda	Insight	61250	R134A	2020-12-21
 Edit	 Copy	 Delete	OE17 PKR	Tesla	Model S	25000	R134A	2021-01-24

## Appointment Details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	<b>AppointmentID</b> 	int(11)			No	None		AUTO_INCREMENT	 Change  Drop  More
2	<b>AppointmentDate</b>	date			No	None			 Change  Drop  More
3	<b>AppointmentStartTime</b>	char(5)	utf8mb4_general_ci		No	None			 Change  Drop  More
4	<b>AppointmentEndTime</b>	char(5)	utf8mb4_general_ci		No	None			 Change  Drop  More
5	<b>Paid</b>	tinyint(1)			No	None			 Change  Drop  More
6	<b>TotalPrice</b>	decimal(10,2)			No	None			 Change  Drop  More
7	<b>ServiceID</b> 	int(11)			Yes	NULL			 Change  Drop  More
8	<b>CustomerID</b> 	int(11)			Yes	NULL			 Change  Drop  More
9	<b>RegistrationNumber</b> 	varchar(8)	utf8mb4_general_ci		Yes	NULL			 Change  Drop  More

AppointmentID	AppointmentDate	AppointmentStartTime	AppointmentEndTime	Paid	TotalPrice	ServiceID	CustomerID	RegistrationNumber
2	2021-01-19	14:00	14:30	0	45.00	14	3	OE10 EEN
5	2021-01-17	10:00	10:45	0	50.00	3	3	OE10 EEN
7	2021-01-27	10:00	10:30	0	85.00	12	6	OE08 KSO
8	2021-02-01	14:00	14:40	1	60.00	4	6	OE08 KSO
9	2021-02-09	11:00	13:00	0	175.00	7	4	FT62TZJ
10	2021-02-01	11:00	13:00	1	175.00	7	5	OE17 PKR

### Payment Details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	PaymentID	int(11)			No	None		AUTO_INCREMENT	
2	CardholdersName	varchar(40)	utf8mb4_general_ci		No	None			
3	BillingAddress	varchar(75)	utf8mb4_general_ci		No	None			
4	PostalCode	varchar(10)	utf8mb4_general_ci		No	None			
5	CardNumber	varchar(20)	utf8mb4_general_ci		No	None			
6	CardType	varchar(30)	utf8mb4_general_ci		No	None			
7	CardExpiryDate	varchar(7)	utf8mb4_general_ci		No	None			
8	CVV	char(7)	utf8mb4_general_ci		No	None			
9	AppointmentID	int(11)			Yes	NULL			

PaymentID	CardholdersName	BillingAddress	PostalCode	CardNumber	CardType	CardExpiryDate	CVV	AppointmentID
5	ALI HASAN	385 ILFORD LANE, ILFORD	IG1 2SL	4921 8322 2875 2283	VISA	12/2022	917	8
6	STEVE SMITH	134 KINGSTON ROAD, ILFORD	IG11PE	4582 6768 8788 3291	MasterCard	10/2024	198	10

### Mechanic\_On\_Appointment:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	AppointmentDate	date			No	None			
2	AppointmentID	int(11)			Yes	NULL			
3	MechanicID	int(11)			Yes	NULL			

AppointmentDate	AppointmentID	MechanicID
2021-01-19	2	12
2021-01-17	5	7
2021-01-27	7	18
2021-02-01	8	3
2021-02-09	9	27
2021-02-01	10	27

### Mechanics:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	MechanicID	int(11)			No	None		AUTO_INCREMENT	
2	FullName	varchar(40)	utf8mb4_general_ci		No	None			
3	MechanicType	varchar(40)	utf8mb4_general_ci		No	None			
4	TotalHoursWorked	decimal(20,2)			No	None			
5	DayOfWeekNotWorking	int(11)			No	None			

MechanicID	FullName	MechanicType	TotalHoursWorked	DayOfWeekNotWorking
1	Muhammad Hussain	MOT (Cars)	0.00	3
2	Muhammad Hussain	MOT (Motorcycle)	0.00	3
3	Muhammad Hussain	Diagnostic Check	0.67	3
4	Muhammad Hussain	Battery Health Check	0.00	3
5	Arun Maini	Interim Service	0.00	2
6	Arun Maini	Full Service	0.00	2
7	Arun Maini	Engine Oil And Filter Change	1.50	2
8	Jonathan Green	MOT (Cars)	0.00	5
9	Jonathan Green	Interim Service + MOT	0.00	5
10	Jonathan Green	Full Service + MOT	0.00	5
11	Haroun Ali	Start Stop Battery Replacement	0.00	5
12	Haroun Ali	Brake Fluid Change	0.50	5
13	Haroun Ali	Brake Pad Replacement	1.00	5
14	Haroun Ali	Air Conditioning Recharge (R134A)	0.00	5
15	Christopher Palmer	Diagnostic And Repair From Specialist	0.00	6
16	Sarfaraz Ansar	Air Conditioning Recharge (R134A)	0.75	2
17	Sarfaraz Ansar	Air Conditioning Recharge (R1234YF)	0.00	2
18	Sarfaraz Ansar	Battery Replacement	0.50	2
19	Sarfaraz Ansar	MOT (Cars)	0.00	2
20	Sarfaraz Ansar	Brake Pad Replacement	0.00	2

### Services:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ServiceID	int(11)			No	None		AUTO_INCREMENT	
2	ServiceName	varchar(40)	utf8mb4_general_ci		No	None			
3	ServicePrice	decimal(5,2)			No	None			
4	Duration	int(3)			Yes	NULL			

	ServiceID	ServiceName	ServicePrice	Duration
	1	MOT (Motorcycle)	40.00	45
	2	MOT (Cars)	50.00	60
	3	Engine Oil And Filter Change	50.00	45
	4	Diagnostic Check	60.00	40
	5	Interim Service	100.00	60
	6	Interim Service + MOT	150.00	150
	7	Full Service	175.00	120
	8	Full Service + MOT	225.00	200
	9	Air Conditioning Recharge (R134A)	60.00	45
	10	Air Conditioning Recharge (R1234YF)	120.00	45
	11	Battery Health Check	0.00	30
	12	Battery Replacement	85.00	30
	13	Start Stop Battery Replacement	125.00	30
	14	Brake Fluid Change	45.00	30

### 3.3 Screenshots

#### 1. Homepage

Screenshot:

**CHEEKO MOT CENTRE**  
431 Ilford Lane · IG1 2PG

**OPENING TIMES**

Monday	9:00AM-7:00PM
Tuesday	9:00AM-7:00PM
Wednesday	9:00AM-7:00PM
Thursday	9:00AM-7:00PM
Friday	9:00AM-7:00PM
<b>SATURDAY</b>	<b>9:00AM-7:00PM</b>
Sunday	CLOSED

**Servicing from £70**

**About Us**

At Cheeko MOT Centre, we aim to provide our customers with the highest quality services to ensure that their vehicles are in a safe and roadworthy condition. We provide a variety of automotive parts repairs ranging from MOT testing, brakes, tyres and many other vehicle services. Our staff are highly trained and skilled in providing the best possible vehicle and customer service. We also employ a group of specialists for specific parts of the car who possess qualifications and skills of the highest industrial standards who are responsible for performing the most difficult diagnosis and repairs. Our prices are some of the lowest and most competitive in London as we are driven by our ambition to keep customer welfare as our prime priority.

**Customer Reviews**

The services provided by Cheeko MOT Centre are of the highest standard and quality. The staff are extremely friendly and transparent in providing information to customers when diagnosing and repairing vehicles.

**Vehicle MOT Expiring?**

If your vehicles MOT has expired or the if the expiry date is upcoming, you can easily have it renewed by creating an account and book an appointment for the date and time that suits you.

**CHEEKO MOT CENTRE**

© 2021 CHEEKO MOT CENTRE. Registered in England, 431 Ilford Lane, Ilford, IG1 2PG. VTS Site Number: S000239

## Code:

```
1  <!DOCTYPE html>
2  <?php
3  session_start();
4  $loggedin = 0;
5  if(isset($_SESSION["UsernameLogin"]) || isset($_SESSION["AdminDetails"])){
6      $loggedin = 1;
7  } ?>
8  <html>
9  <head>
10 <meta charset="utf-8" name="viewport">
11 <link rel="stylesheet" href="CSS/WebsiteLayout.css" type="text/css">
12 <title>Cheeko MOT Centre</title>
13 </head>
14 <body>
15 <?php include("NavigationBar.php");?>
16 <?php if(!empty($_GET['Status'])) && ($_GET['Status']=="LoggedOutSuccessfully"){ ?>
17     <div class="MessageBox">
18         <div class="Message">YOU HAVE SUCCESSFULLY LOGGED OUT</div>
19     </div><?php } ?>
20 <div class="TableBackground">
21 <br>
22 <center><h5>OPENING TIMES</h5></center>
23 <table>
24     <tr>
25         <td id="1">Monday</td>
26         <td id="8">9:00AM-7:00PM</td>
27     </tr>
28     <tr>
29         <td id="2">Tuesday</td>
30         <td id="9">9:00AM-7:00PM</td>
31     </tr>
32     <tr>
33         <td id="3">Wednesday</td>
34         <td id="10">9:00AM-7:00PM</td>
35     </tr>
36     <tr>
37         <td id="4">Thursday</td>
38         <td id="11">9:00AM-7:00PM</td>
39     </tr>
40     <tr>
41         <td id="5">Friday</td>
42         <td id="12">9:00AM-7:00PM</td>
43     </tr>
44     <tr>
45         <td id="6">Saturday</td>
46         <td id="13">9:00AM-7:00PM</td>
47     </tr>
48     <tr>
49         <td id="7">Sunday</td>
50         <td id="14" style="text-align: center;">CLOSED</td>
51     </tr>
52 </table>
53 </div>
54 <div class="Slideshow">
55     <div class="ImageSlide">
56         
57     </div>
58     <div class="ImageSlide">
59         
60     </div>
61     <div class="ImageSlide">
62         
63     </div>
64     <div class="ImageSlide">
65         
66     </div>
67     <div class="ImageSlide">
68         
69     </div>
70 </div>
71 <div class="CurrentImageBar">
72     <span class="ImageIndicator"></span>
73     <span class="ImageIndicator"></span>
74     <span class="ImageIndicator"></span>
75     <span class="ImageIndicator"></span>
76     <span class="ImageIndicator"></span>
77 </div>
78 <br>
79 <div class="InformationBox">
80 <div class="ServiceBox">
81     <a href="Services#SERVICING" class="RedirectToServices"><div class="Service">
82         <h3 style="position: relative; letter-spacing: 1.75px; color: #1268A9; font-weight: 900; font-size: 18.25px; font-family: 'Open Sans', sans-serif;">Servicing from E70</h3>
83         
84         <p style="font-family: 'Poppins', sans-serif; font-size: 12.5px; text-align: justify; padding: 2.5px 20px; opacity: 0.75; letter-spacing: 0.5px; font-weight: 500;">Have your vehicle serviced by booking an appointment and choose the package which suits your needs and budget.</p>
85     </div></a>
86 </div>
87 <div class="BookAppointment" style="margin-top: 20px; padding-bottom: 15px;">
88     <a href="#" class="RedirectToSignup">
89         <h3 style="position: relative; text-align: center; letter-spacing: 1.75px; color: #1268A9; font-weight: 900; font-size: 18.25px; font-family: 'Open Sans', sans-serif;">Vehicle MOT Expiring?</h3>
90         
91         <p style="font-family: 'Poppins', sans-serif; font-size: 12.5px; text-align: justify; padding: 2.5px 20px; opacity: 0.75; letter-spacing: 0.5px; font-weight: 500;">If your vehicle's MOT has expired or the if the expiry date is upcoming, you can easily have it renewed by creating an account and book an appointment for the date and time that suits you.</p>
92     </a>
93 </div>
94 </div>
95 <div class="AboutUs">
96     <h2 class="Title">About Us</h2>
97     <p class="Text">At Cheeko MOT Centre, we aim to provide our customers with the highest quality services to ensure that their vehicles are in a safe and roadworthy condition. We provide a variety of automotive parts repairs ranging from MOT testing, brakes, tyres and many other vehicle services. Our staff are highly trained and skilled in providing the best possible vehicle and customer service. We also employ a group of specialists for specific parts of the car who possess qualifications and skills of the highest industrial standards who are responsible for performing the most difficult diagnosis and repairs. Our prices are some of the lowest and most competitive in London as we are driven by our ambition to keep customer welfare as our prime priority.</p>
98 </div>
99 <div class="CustomerComments">
100 <script src="https://kit.fontawesome.com/a076d05399.js"></script>
101 <div class="CustomerReviewSlide2">
102     <h2 class="Title">Customer Reviews</h2>
103     <p style="font-size: 17.5px; margin-left: 450px; color: #272727;">fas>&#xf10d</p>
104     <p class="Text" style="text-align: center; padding: 5px 10px; margin: 15px 0; margin-left: 47.5px;">The services provided by Cheeko MOT Centre are of the highest standard and quality. The staff are extremely friendly and transparent in providing information to customers when diagnosing and repairing vehicles.</p>
105     <p style="font-size: 17.5px; transform: rotate(180deg); margin-left: 450px; color: #272727;">fas>&#xf10d</p>
106 </div>
107 <div class="CustomerReviewSlide2">
108     <h2 class="Title">Customer Reviews</h2>
109     <p style="font-size: 17.5px; margin-left: 450px; color: #272727;">fas>&#xf10d</p>
110     <p class="Text" style="text-align: center; padding: 5px 10px; margin: 15px 0; margin-left: 47.5px;">In Ilford, Cheeko MOT Centre are notorious for their low prices and brilliant services. Their mechanics are extremely skilled so you can rest assured that your vehicle is in safe hands.</p>
111     <p style="font-size: 17.5px; transform: rotate(180deg); margin-left: 450px; color: #272727;">fas>&#xf10d</p>
112 </div>
113 <div class="CustomerReviewSlide2">
114     <h2 class="Title">Customer Reviews</h2>
115     <p style="font-size: 17.5px; margin-left: 450px; color: #272727;">fas>&#xf10d</p>
116     <p class="Text" style="text-align: center; padding: 5px 10px; margin: 15px 0; margin-left: 20px;">The quality and accuracy of their diagnostics, repairs and replacements are unparalleled against their local competitors. If anyone has any issues relating to their vehicle, I would recommend them to visit Cheeko MOT Centre.</p>
117     <p style="font-size: 17.5px; transform: rotate(180deg); margin-left: 450px; color: #272727;">fas>&#xf10d</p>
118 </div>
119 </div>
```

```

133 <div class="CustomerReviews Slide2">
134   <h2 class="Title">Customer Reviews</h2>
135   <p style="font-size: 17.5px; margin-left: 450px; color: #272727;">&#xf18d</p>
136   <p class="Text" style="text-align: center; padding: 5px 100px; margin: 15px 0; margin-left: 20px;">This MOT garage is truly efficient in providing services
137   as they successfully perform MOT and repairs faster than many other garages without causing any compromise on quality and vehicle safety.</p>
138   <p style="font-size: 17.5px; transform: rotate(180deg); margin-left: 450px; color: #272727;">&#fas'&#xf18d</p>
139 </div>
140 <php include("Footer.php"); ?>
141 </body>
142 <script type="text/javascript">
143 var SLideNumber = 0;
144 var ReviewNumber = 0;
145 DisplaySlide();
146 ChangeReview();
147 function DisplaySlide(){
148   var SLide = document.getElementsByClassName("Image");
149   var ImageIndicator = document.getElementsByClassName("ImageIndicator");
150   for (var X = 0; X < SLide.length; X++){
151     SLide[X].style.display = "none";
152   }
153   SLideNumber++;
154   if (SLideNumber > SLide.length) {SLideNumber = 1};
155   for (var X = 0; X < ImageIndicator.length; X++){
156     ImageIndicator[X].className = ImageIndicator[X].className.replace(" Active", " ");
157   }
158   SLide[SLideNumber - 1].style.display = "block";
159   ImageIndicator[SLideNumber - 1].className += " Active";
160   setTimeout(DisplaySlide, 3750);
161 }
162 var Date = new Date();
163 var Today = Date.getDay();
164 if (Today != 0){
165   var ColorChange = document.getElementById(Today).style.color = "#1268A9";
166   var ColorChange = document.getElementById(Today+7).style.color = "#1268A9";
167   var Text = document.getElementById(Today).style.textTransform = "uppercase";
168   var FontWeight = document.getElementById(Today).style.fontWeight = "900";
169   var FontWeight = document.getElementById(Today+7).style.fontWeight = "900";
170 } else {
171   var ColorChange = document.getElementById(Today).style.color = "#C80000";
172   var ColorChange = document.getElementById("14").style.color = "#C80000";
173   var Text = document.getElementById(Today).style.textTransform = "uppercase";
174   var FontWeight = document.getElementById(Today).style.fontWeight = "900";
175   var FontWeight = document.getElementById("14").style.fontWeight = "900";
176 }
177 function ChangeReview(){
178   var Review = document.getElementsByClassName("CustomerReviews");
179   for (var X = 0; X < Review.length; X++){
180     Review[X].style.display = "none";
181   }
182   ReviewNumber++;
183   if (ReviewNumber > Review.length) {ReviewNumber = 1};
184   Review[ReviewNumber - 1].style.display = "block";
185   setTimeout(ChangeReview, 7500);
186 }
187 </script>
188 </html>

```

## 2. Navigation Bar

Screenshot:

When Logged Out



When Logged In



## Code:

```
1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <link rel="stylesheet" href="CSS/WebsiteLayout.css" type="text/css">
6  </head>
7  <div class="HomeLayout">
8  
9  <nav id="NavigationBar">
10 <ul>
11 <li style="border-right: 1.25px solid white;"><a class="HoverFirst" href="Home">HOME</a></li>
12 <li style="border-right: 1.25px solid white;"><a class="Hover" href="Services">SERVICES</a>
13 <ul class="DropDown">
14 <li><a class="DropDownContentFirst" href="Services#MOT">MOT</a></li>
15 <li><a class="DropDownContent" href="Services#AirCon">AIR CONDITION</a></li>
16 <li><a class="DropDownContent" href="Services#Brakes">BRAKES</a></li>
17 <li><a class="DropDownContent" href="Services#NumberPlate">NUMBER PLATES</a></li>
18 <li><a class="DropDownContent" href="Services#Servicing">SERVICING</a></li>
19 <li><a class="DropDownContentLast" href="Services#Pricing">PRICES</a></li>
20 </ul>
21 </li>
22 <li style="border-right: 1.25px solid white;"><a class="Hover" href="ContactUs">CONTACT US</a></li>
23 <li class="Login" style="float:right" id="LoginBox"><a href="Login" id="Login">LOG IN</a></li>
24 </ul>
25 </nav>
26 </div>
27 <script>
28 var NavigationBar = document.getElementById("NavigationBar");
29 var Position = NavigationBar.offsetTop;
30 window.onscroll = function(){
31     if (window.pageYOffset >= Position) {
32         NavigationBar.classList.add("Sticky");
33     } else {
34         NavigationBar.classList.remove("Sticky");
35     }
36 }
37 var Login = document.getElementById("Login");
38 var LoginBox = document.getElementById("LoginBox");
39 var LoggedIn = <?php echo json_encode($LoggedIn, JSON_HEX_TAG); ?>;
40 if(LoggedIn == "1"){
41     Login.innerHTML = "ACCOUNT";
42     LoginBox.style.background = "#FCBEE0";
43     LoginBox.onmouseover = function(){
44         LoginBox.style.backgroundColor = "#2EDF2E";
45     }
46     LoginBox.onmouseout = function(){
47         LoginBox.style.backgroundColor = "#FCBEE0";
48     }
49 } else {
50     Login.innerHTML = "LOG IN";
51     LoginBox.style.background = "#1268A9";
52     LoginBox.onmouseover = function(){
53         LoginBox.style.backgroundColor = "#2EDF2E";
54     }
55     LoginBox.onmouseout = function(){
56         LoginBox.style.backgroundColor = "#1268A9";
57     }
58 }
59 </script>
60 </html>
```

### 3. Footer

#### Screenshot:

##### 1. When Outside Of Account



**CHEEKO MOT CENTRE**

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##### 2. When Inside Of Account

| HOME | SERVICES | CONTACT US |



**CHEEKO MOT CENTRE**

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## Code:

### 1. When Outside Of Account

```
1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <link rel="stylesheet" href="CSS/WebsiteLayout.css" type="text/css">
6  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
7  </head>
8  <div class="HomeLayout">
9      <div class="Footer">
10         <div class="Socials">
11             <a href="#" class="fa fa-facebook" style="color: white; background: #385998"></a>
12             <a href="#" class="fa fa-twitter" style="color: white; background: #55ACEE"></a>
13             <a href="#" class="fa fa-google" style="color: white; background: #DD4B39"></a>
14             <a href="#" class="fa fa-instagram" style="color: white; background: #E1386C"></a>
15         </div>
16         
17     </div>
18     <div class="Copyright">
19         <p>© 2021 CHEEKO MOT CENTRE. Registered in England, 431 Ilford Lane, Ilford, IG1 2PG. VTS Site Number: S000239</p>
20     </div>
21 </div>
22 </body>
23 </body>
24 </html>
```

### 2. When Inside Of Account

```
1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
6  </head>
7  <body>
8  <div class="Layout">
9      <div class="Footer">
10         <div class="Redirect">
11             <span></span><a href="Home">HOME</a><span></span><a href="Services">SERVICES</a><span></span><a href="ContactUs">CONTACT US</a><span></span>
12         </div>
13         <div class="Icons">
14             <div class="Socials">
15                 <a href="#" class="fa fa-facebook" style="color: white; background: #385998"></a>
16                 <a href="#" class="fa fa-twitter" style="color: white; background: #55ACEE"></a>
17                 <a href="#" class="fa fa-google" style="color: white; background: #DD4B39"></a>
18                 <a href="#" class="fa fa-instagram" style="color: white; background: #E1386C"></a>
19             </div>
20             
21         </div>
22         <div class="Copyright">
23             <p>© 2021 CHEEKO MOT CENTRE. Registered in England, 431 Ilford Lane, Ilford, IG1 2PG. VTS Site Number: S000239</p>
24         </div>
25     </div>
26 </div>
27 <style>
28 .Layout{
29     margin: 875px 75px 1.75px;
30 }
31 .Image{
32     width: 377.5px;
33     height: 42.5px;
34     margin-left: 392.5px;
35 }
36 .Footer{
37     position: relative;
38     width: 1169.875px;
39     margin-left: 6.75px;
40     height: 175px;
41     background: #1268A9;
42     border-radius: 7.5px;
43 }
44 .Redirect{
45     position: absolute;
46     margin: 15px 392px;
47 }
48 .Redirect a{
49     color: white;
50     font-size: 13.875px;
51     display: inline-block;
52     letter-spacing: 4.25px;
53     font-weight: 600;
54 }
55 .Redirect span{
56     border-left: 3.25px solid white;
57     height: 0.125px;
58     margin: 0 10px;
59 }
60 .Layout .Copyright p{
61     position: absolute;
62     color: #F8F8F8;
63     text-align: center;
64     margin: 152.5px 220.5px 2.5px;
65     font-family: 'Poppins', sans-serif;
66     font-size: 13.75px;
67     font-weight: 400;
68 }
69 .Icons{
70     position: absolute;
71     margin-top: 38.875px;
72 }
73 .Socials{
74     text-align: center;
75     margin-left: 370px;
76     margin-bottom: 3.5px;
77 }
78 .fa{
79     padding: 12.5px;
80     width: 17.5px;
81     margin-left: 20px;
82     text-decoration: none;
83     border-radius: 50%;
84     margin-top: 17.5px;
85     border: 2.5px solid white;
86 }
87 .fa:hover{
88     opacity: 0.775;
89 }
90 </style>
91 </html>
```

## CSS For 1-3:

```

1  @import url('https://fonts.googleapis.com/css2?family=Late:ital,wght@0,300;0,400;0,700;0,900;1,100;1,300;1,400;1,700;1,900&family=Open+Sans:ital,wght@0,300;0,400;0,600;0,700;0,800');
2  @import url('https://fonts.googleapis.com/css2?family=Late:ital,wght@0,100;0,300;0,400;0,700;0,900;1,100;1,300;1,400;1,700;1,900&family=Open+Sans:ital,wght@0,300;0,400;0,600;0,700;0,800');
3  @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700;800&display=swap');
4  {
5      margin: 0;
6      padding: 0;
7      text-decoration: none;
8      font-family: 'Late', sans-serif;
9  }
10 .HomeLayout{
11     margin: 2px 75px;
12 }
13 body{
14     overflow-x: hidden;
15 }
16 nav{
17     margin: -3.25px 5px -15px 6.25px;
18     height: 42.5px;
19     width: 99.25%;
20     background-color: #747474;
21     position: sticky;
22     border-radius: 7.5px;
23 }
24 .Sticky{
25     position: fixed;
26     top: 3.5px;
27     width: 88.175%;
28     z-index: 1;
29 }
30 ul li{
31     text-align: center;
32     width: 17.5px;
33     box-sizing: border-box;
34     list-style-type: none;
35     display: block;
36     float: left;
37     line-height: 42.5px;
38     top: 0;
39     position: relative;
40 }
41 ul li a{
42     color: white;
43     padding: 0 15px;
44     font-size: 15px;
45     font-weight: 600;
46     letter-spacing: 3.5px;
47 }
48 .Hover:hover{
49     background-color: #1268A9;
50     display: block;
51     transition: ease-in-out 0.5s;
52 }
53 .HoverFirst:hover{
54     background-color: #1268A9;
55     display: block;
56     transition: ease-in-out 0.5s;
57     border-radius: 7.5px 0 7.5px;
58 }
59 .Login{
60     height: 42.5px;
61     border-right: none;
62     background-color: #1268A9;
63     border-radius: 7.5px;
64 }
65 .Login:hover{
66     transition: ease-in-out 0.5s;
67 }
68 .Logo{
69     margin: 0.25px 2.5px 1.5px 6.25px;
70     width: 99.25%;
71     height: 150px;
72     border-radius: 3.75px;
73 }
74 .DropDown{
75     margin-top: 3px;
76     display: none;
77     position: absolute;
78     outline: none;
79     background-color: #747474;
80     width: 175px;
81     border-radius: 7.5px;
82 }
83 ul li:hover ul{
84     display: block;
85 }
86 .DropDownContent{
87     text-align: center;
88     outline: none;
89     font-size: 15px;
90     font-weight: 600;
91     letter-spacing: 1.875px;
92 }
93 .DropDownContent:hover{
94     background-color: #1268A9;
95     display: block;
96     transition: ease-in-out 0.5s;
97 }
98 .DropDownContentFirst{
99     text-align: center;
100    font-size: 15px;
101    font-weight: 600;
102    letter-spacing: 1.875px;
103 }
104 .DropDownContentFirst:hover{
105     background-color: #1268A9;
106     display: block;
107     transition: ease-in-out 0.5s;
108     border-radius: 7.5px 7.5px 0 0;
109 }
110 .DropDownContentLast{
111     text-align: center;
112     font-size: 15px;
113     font-weight: 600;
114     letter-spacing: 1.875px;
115 }
116 .DropDownContentLast:hover{
117     background-color: #1268A9;
118     display: block;
119     transition: ease-in-out 0.5s;
120     border-radius: 0 0 7.5px 7.5px;
121 }
122 .MessageBox{
123     margin: -20px 5px -13.5px 80px;
124     width: 88.2725px;
125     background-color: #1268A9;
126     height: 77.5px;
127     position: relative;
128     z-index: -1;
129     border-radius: 7.5px;
130     animation-name: Opacity;
131     animation-duration: 2.25s;
132     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
133 }
134 .Message{
135     font-family: 'Open Sans', sans-serif;
136     margin-top: 22.5px;
137     text-align: center;
138     padding: 25px;
139     font-size: 21.25px;
140     font-weight: 800;
141     letter-spacing: 5px;
142     color: white;
143 }
144 @keyframes Opacity{
145     from{opacity: 0}
146     to{opacity: 1}
147 }
148 .TableBackground{
149     width: 32.5px;
150     height: 370px;
151     background-color: #E3E3E3;
152     position: relative;
153     margin: 19.25px 10px 22.5px 945px;
154     border-radius: 7.5px;
155     padding: 17.5px 1.25px 8px;
156     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
157 }
158 .Slideshow img{
159     width: 854.25px;
160     height: 500px;
161     border-radius: 7.5px;
162     padding: 17.5px 1.25px 8px;
163     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
164 }
165 table{
166     margin: -7.5px 18.25px;
167 }
168 tr{
169     margin: 130px;
170 }
171 td{
172     font-family: 'Poppins', sans-serif;
173     letter-spacing: 1.25px;
174     margin-left: 180px;
175     padding: 7.5px 2px;
176     font-weight: 700;
177     padding-right: 5px;
178     color: #49453F;
179     font-size: 16px;
180     cursor: default;
181     transform: scale(1.05);
182 }
183 h5{
184     font-family: 'Poppins', sans-serif;
185     margin-top: -2.5px;
186     margin-bottom: 15px;
187     font-size: 18.75px;
188     font-weight: 900;
189     color: #49453F;
190     letter-spacing: 6.5px;
191     transform: scale(1.075);
192 }
193 .Slideshow{
194     margin-left: 82.25px;
195     margin-top: -409.775px;
196     position: absolute;
197     z-index: -1;
198 }
199 .Image{
200     display: none;
201 }
202 .CurrentImageBar{
203     width: 852.5px;
204     height: 27.5px;
205     margin-left: 78.5px;
206     margin-top: 30px;
207     position: absolute;
208     text-align: center;
209 }
210 .ImageIndicator{
211     width: 15px;
212     height: 15px;
213     box-shadow: 0px 0px 2px 2.5px rgba(130,130,130, 0.3);
214     border: 3px solid #5F5F5F;
215     border-radius: 50%;
216     background: #747474;
217     margin: 5.75px 12.5px;
218     display: inline-block;
219     transition: background-color 0.75s ease;
220 }
221 .Active{
222     background: #FFFFFF;
223     border-color: #000000;
224 }
225 .Slide{
226     animation-name: Slide;
227     animation-duration: 1.25s;
228 }
229 .Slide2{
230     animation-name: Slide;
231     animation-duration: 2.5s;
232 }
233 @keyframes Slide{
234     from { opacity: 0.5 }
235     to { opacity: 1 }
236 }
237 @keyframes Slide2{
238     from { opacity: 0.25 }
239     to { opacity: 1 }
240 }
241 .InformationBox{
242     width: 324.75px;
243     height: 651.25px;
244     background-color: #E3E3E3;
245     position: relative;
246     margin: -33.5px 10px 22.5px 945px;
247     border-radius: 7.5px;
248     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
249 }
250 .Service{
251     text-align: center;
252     padding-top: 25px;
253     cursor: pointer;
254     text-decoration: none;
255 }

```

```

255 .Service:hover{
256     transform: scale(1.05);
257 }
258 .BookAppointment:hover{
259     transform: scale(1.05);
260 }
261 a.RedirectToServices, a.RedirectToSignup{
262     color: black;
263 }
264 a.RedirectToServices:visited, a.RedirectToSignup:visited{
265     color: black;
266 }
267 .AboutUs{
268     margin: -562.125px 82.25px;
269     width: 854.25px;
270     height: 282.5px;
271     background-color: #E3E3E3;
272     position: absolute;
273     border-radius: 7.5px;
274     cursor: default;
275     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
276 }
277 .CustomerComments{
278     margin: -272.5px 82.25px;
279     width: 854.25px;
280     height: 244.25px;
281     background-color: #E3E3E3;
282     position: absolute;
283     border-radius: 7.5px;
284     cursor: default;
285     padding-top: 6.5px;
286     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
287 }
288 .Title{
289     font-family: 'Poppins', sans-serif;
290     letter-spacing: 3.75px;
291     font-size: 25px;
292     font-weight: 600;
293     margin-left: 10px;
294     padding: 17.5px 15px 5px 15px;
295     color: #013F6F;
296 }
297 .Text{
298     margin-left: 10px;
299     text-align: justify;
300     line-height: 25px;
301     letter-spacing: 0.725px;
302     padding: 0 30px 2.5px 13.75px;
303     font-family: 'Poppins', sans-serif;
304     font-size: 14.75px;
305     color: #272727;
306     font-weight: 500;
307 }
308 .Footer{
309     margin-left: 4.5px;
310     margin-top: -15px;
311     height: 132.5px;
312     width: 99.4125%;
313     background-color: #1268A9;
314     position: relative;
315     border-radius: 7.5px;
316 }
317 .Copyright{
318     margin-left: 4.5px;
319     position: relative;
320     margin-top: -17.5px;
321     height: auto;
322     width: 99.4125%;
323     background-color: #1268A9;
324     border-bottom-left-radius: 7.5px;
325     border-bottom-right-radius: 7.5px;
326 }
327 .HomeLayout .Copyright p{
328     color: #f8f9fa;
329     text-align: center;
330     padding-bottom: 7.5px;
331     margin-top: 5px;
332     font-family: 'Poppins', sans-serif;
333     font-size: 13.75px;
334     font-weight: 400;
335 }
336 .Socials{
337     text-align: center;
338 }
339 .fa{
340     padding: 12.5px;
341     width: 17.5px;
342     margin-left: 26px;
343     text-decoration: none;
344     border-radius: 50%;
345     margin-top: 17.5px;
346     border: 2.5px solid white;
347 }
348 .fa:hover{
349     opacity: 0.775;
350 }
351 .CustomerReviews{
352     font-family: 'Poppins', sans-serif;
353     display: none;
354 }

```

## 4. Services

Screenshot:



HOME | SERVICES | CONTACT US | LOG IN

### What is an MOT?

#### Did You Know?

In 2017, out of the 28.9 million vehicles that underwent an MOT test, 7.5 million or 35% of those vehicles failed the MOT test at the first attempt.

An MOT test is an obligatory inspection on all vehicles that are over three years old. It is the responsibility of the vehicles owner to ensure their MOT test certificate is renewed annually since the penalty for not having a valid certificate can be a fine imposed by the court of up to a maximum of £1000. Also, driving a car that has failed the MOT test could result in a heavy fine of up to £2500 and 3 points on your driving license.

The test examines if the motor vehicle fulfils the legal requirements set by the DVSA to decide if it is in roadworthy condition and meets the environmental standards. A variety of safety checks are performed by many MOT centres like us. The test includes checks on brakes, seatbelts, tyres, exhaust system, lights, mirrors and many other parts. If the vehicle successfully meets the criteria, you will be issued an MOT certificate by the MOT centre and might get a list of 'minor' or 'advisory' problems to monitor or fix in the future. However, if the vehicle fails, it will need to be re-tested. If a 'dangerous' problem was discovered during the MOT test, you would have to get it repaired before you can drive.

The MOT test takes on average from 45 minutes to an hour to complete. Our centre is well equipped for vehicle owners to comfortably rest while a DVSA-approved examiner conducts the test. You can book your MOT test online through creating an account by clicking [here](#) and choosing the date and time that suits you. To find out when your next MOT is due, click [here](#) and enter the registration number of your vehicle. Otherwise, you can find the expiry date on your existing MOT certificate.



### Air Conditioning Recharge

Recharging a vehicles air conditioning is extremely vital in increasing fuel efficiency which can help save you money in the long run. When a vehicles air conditioning refrigerant is low, the air conditioning system struggles to cool the air hence the system would need to work harder by using more fuel to produce cold air. This would mean that drivers would have to spend more money on regularly filling the tank of the vehicle. However, the air conditioning refrigerant is also used by vehicles in the winter when demisting the windscreen by producing warm air from the air conditioning. Therefore, recharging the refrigerant frequently will be financially beneficial over time and ensures the vehicles air conditioning system is robust.

If the air conditioning in your vehicle is outputting warm air or cold air at extremely low pressure than what it should be, it is highly likely you have a refrigerant leak or the refrigerant is low and may need recharging. The time duration between recharging the refrigerant differs per vehicle but on average, most vehicle manufacturers recommend a refill every two years. To have it recharged at Cheeko MOT Centre, customers can book an appointment online with the service taking between 45 minutes to an hour while customers can wait and enjoy the free wifi and snacks. It is important to mention that the air conditioning system is not examined during an MOT test since it has no impact on the vehicles safety.



## Brakes

### Did You Know?

Defective brakes are the leading cause of road accidents where a vehicle defect is the contributing factor with a total of 3,874 road accidents in the UK from 2013 to 2018 occurring due to defective brakes.

Brakes are arguably one of the most important parts of a vehicle as they literally save lives by preventing fatal accidents. Therefore, ensuring they remain in good quality is essential for your own personal safety as well as the safety of other drivers on the road. The interval between brake pad replacements will vary depending on where the vehicle was used. For example, a set of brake pads for a car that has been driven on the motorway mostly can last for up to 65,000 miles whereas the same brake pad for a vehicle used within the city may only last 20,000 miles. Normally, the front brake pads of a car tend to worsen in condition before the rear brake pads since they carry a major proportion of the braking load. Identifying if your vehicle's brake pads need replacing can be difficult but here are some signs that you should look out for:



**Dashboard Light** - If the brake warning light appears on your instrumental panel, this is an indication that the brake fluid level is extremely low.



**Grinding** - If the friction material on the brake pads is worn down to the metal caliper, this can lead to a grinding noise as the brake pads are likely worn down to the metal caliper and would likely cause damage to the brake disc also.

**Pulsating** - When applying the brake, if you experience a continuous pulsating, this is an indication that the brake discs have become warped due to unrestrained heat. The reason for this is that the brake discs have been deformed and no longer provide a flat surface when the brake pad makes contact.

**Old Brake Fluid** - If the brake fluid inside your vehicle is 2 years or older, it may no longer be effective as it has hygroscopic properties as it absorbs moisture over time. Therefore, this has a negative impact on the braking ability of the vehicle and the fluid will need replacing.

## Number Plates

If you choose to have your existing number plate replaced with a private one, you must ensure that your new number plate adheres to these following rules:



- 1. The number plate must not make your car appear newer than it actually is. For example, if your vehicle was manufactured in 2016, you cannot have a 18 number plate.**
- 2. The number plate cannot be of a font that is outside what has been deemed permissible by DVLA and fonts that are allowed cannot be used in italics format.**
- 3. The number plate must be in the format outlined by the DVLA which consists of two letters followed by two numbers, a space and three further letters.**
- 4. Background patterns on the plate aren't allowed and the characters on the number plate need to be of the standard height and width.**
- 5. No flag or identifiers of any country other than the United Kingdom aren't permitted.**



At Cheeko MOT Centre, we provide personalised number plates to customers given that the requested plate doesn't violate the criteria set out by DVLA. It is absolutely vital to mention that you could be fined up to £1000 and your vehicle will fail its MOT test if you drive with an invalid number plate.

## Servicing

During a service, a vehicle is inspected to check if your vehicle is safe and fully functioning based on the guidelines outlined by the vehicle manufacturer. During the service, some parts of your car will be repaired/replaced depending on the issue as well as engine oil and filter changes. Servicing on a regular basis can ensure that your vehicle runs smoothly and problems can be identified at an early stage which reduces the risk of the problem deteriorating and resulting in a more costly repair in the future. Most modern cars are built in with an on-board computers that notify the owner when the vehicle needs servicing and it is advised that drivers don't ignore any warnings even if you had your vehicle serviced recently. However, if no issue is detected, it is a good practice to have your vehicle serviced every year or after 10,000 miles as you shouldn't compromise with your personal safety and the safety of your loved ones. At Cheeko MOT Centre, we offer several servicing options ranging from oil and filter change to interim service or a full service. When coming for a service, it is recommended that you bring your vehicle log book so the mechanic can stamp this once complete as having a service stamp in your log book would help in increasing the resell value of the vehicle as it shows future owners that the vehicle has been well maintained.



# Pricing

Service Type	Price	Duration (In Minutes)
MOT (Motorcycle)	£40	30-45
MOT (Cars)	£50	45-60
Engine Oil And Filter Change	£50	30-45
Diagnostic Check	£60	25-40
Interim Service	£100	45-60
Interim Service + MOT	£150	135-150
Full Service	£175	105-120
Full Service + MOT	£225	185-200
Air Conditioning Recharge (R134A)	£60	30-45
Air Conditioning Recharge (R1234YF)	£120	30-45
Battery Health Check	FREE	15-30
Battery Replacement	£85	15-30
Start Stop Battery Replacement	£125	15-30
Brake Fluid Change	£45	15-30
Brake Pad Replacement	£300	45-60
Number Plate	£300	15-30
Diagnostic And Repair From Specialist	£350	195-210



## CHEEKO MOT CENTRE

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### Code:

```

1  <!doctype html>
2  <?php
3  session_start();
4  include("ConnectLoginSignupToMySQL.php");
5  $loggedin = 0;
6  if(isset($_SESSION["UsernameLogin"]) || isset($_SESSION["AdminDetails"])){
7      $loggedin = 1;
8  }?
9  <html>
10 <script>
11 localStorage.removeItem("AdminPinNumber");
12 </script>
13 <head>
14 <meta charset="utf-8">
15 <link rel="stylesheet" href="CSS/StyleServices.css" type="text/css">
16 <title>Services - Cheeko MOT Centre</title>
17 </head>
18 <body>
19 <?php include("NavigationBar.php");?>
20 <div class="Layout">
21 <span id="MOT">
22 <br>
23 <h2>What is an MOT?</h2><br>
24 <div class="Fact">
25 <h3>Did You Know?</h3>
26 <p class="Information" style="margin-right: 15px; font-weight: 600; color: #4B84E6;">
27 In 2017, out of the 28.9 million vehicles that underwent an MOT test, 7.5 million or 35% of those vehicles failed the MOT test at the first attempt.
28 </p>
29 </div><br>
30 <p class="Information">
31 An MOT test is an obligatory inspection on all vehicles that are over three years old. It is the responsibility of the vehicles owner to ensure their MOT test
32 certificate is renewed annually since the penalty for not having a valid certificate can be a fine imposed by the court of up to a maximum of £1000. Also, driving
33 a car that has failed the MOT test could result in a heavy fine of up to £2500 and 3 points on your driving license.
34 <br><br>
35 The test examines if the motor vehicle fulfills the legal requirements set by the DVSA to decide if it is in roadworthy condition and meets the environmental
36 standards. A variety of safety checks are performed by many MOT centres like us. The test includes checks on brakes, seatbelts, tyres, exhaust system, lights,
37 mirrors and many other parts. If the vehicle successfully meets the criteria, you will be issued an MOT certificate by the MOT centre and might get a list of
38 'minor' or 'advisory' problems to monitor or fix in the future. However, if the vehicle fails, it will need to be re-tested. If a 'dangerous' problem was
39 discovered during the MOT test, you would have to get it repaired before you can drive.
40 <br><br>
41 The MOT test takes on average from 45 minutes to an hour to complete. Our centre is well equipped for vehicle owners to comfortably rest while a DVSA-approved
42 examiner conducts the test. You can book your MOT test online through creating an account by clicking <a class="Redirect" href="Signup.php">here</a> and choosing
43 the date and time that suits you. To find out when your next MOT is due, click <a class="Redirect" href="https://www.gov.uk/check-mot-status">here</a> and enter
44 the registration number of your vehicle. Otherwise, you can find the expiry date on your existing MOT certificate.
45 </p>
46 
47 
48 
49 <br>
50 <hr>
51 <hr>

```

```

52 <span id="AirCon">
53 <br><br>
54 <h2>Air Conditioning Recharge</h2><br>
55 <p class="Information">
56 Recharging a vehicles air conditioning is extremely vital in increasing fuel efficiency which can help save you money in the long run. When a vehicles air
57 conditioning refrigerant is low, the air conditioning system struggles to cool the air hence the system would need to work harder by using more fuel to produce
58 cold air. This would mean that drivers would have to spend more money on regularly filling the tank of the vehicle. However, the air conditioning refrigerant is
59 also used by vehicles in the winter when demisting the windscreen by producing warm air from the the air conditioning. Therefore, recharging the refrigerant
60 frequently will be financially benificial over time and ensures the vehicles air conditioning system is robust.
61 <br><br>
62 If the air conditioning in your vehicle is outputting warm air or cold air at extremely low pressure than what it should be, it is highly likely you have a
63 refrigerant leak or the refrigerant is low and may need recharging. The time duration between recharging the refrigerant differs per vehicle but on average, most
64 vehicle manufacturers recommend a refill every two years. To have it recharged at Cheeko MOT Centre, customers can book an appointment online with the service
65 taking between 45 minutes to an hour while customers can wait and enjoy the free wifi and snacks. It is important to mention that the air conditioning system is
66 not examined during an MOT test since it has no impact on the vehicles safety.
67 </p>
68 
69 <br>
70 </span>
71 <br>
72 <span id="Brakes">
73 <br><br>
74 <h2>Brakes</h2><br>
75 <div class="Fact">
76 <h3>Did You Know?</h3>
77 <p class="Information" style="margin-right: 15px; font-weight: 600; color: #484848;">
78 Defective brakes are the leading cause of road accidents where a vehicle defect is the contributing factor with a total of 3,874 road accidents in the UK
79 from 2013 to 2018 occurring due to defective brakes.</p>
80 </div><br>
81 <p class="Information">
82 Brakes are arguably one of the most important parts of a vehicle as they literally save lives by preventing fatal accidents. Therefore, ensuring they remain in
83 good quality is essential for your own personal safety as well as the safety of other drivers on the road. The interval between brake pad replacements will vary
84 depending on where the vehicle was used. For example, a set of brake pads for a car that has been driven on the motorway mostly can last for up to 65,000 miles
85 whereas the same brake pad for a vehicle used within the city may only last 20,000 miles. Normally, the front brake pads of a car tend to worsen in condition
86 before the rear brake pads since they carry a major proportion of the braking load. Identifying if your vehicles brake pads need replacing can be difficult but
87 here are some signs that you should look out for:<br>
88 <p class="Information" style="margin-top: 7.5px;"><strong style="font-weight: 800;">Dashboard Light</strong> - If the brake warning light appears on your
89 instrumental panel, this is an indication that the brake fluid level is extremely low.<br></p>
90 <p class="Information" style="margin-top: 7.5px;"><strong style="font-weight: 800;">Grinding</strong> - If the friction material on the brake pads tattered, this
91 can lead to a grinding noise as the brake pads are likely worn down to the metal caliper and would likely cause damage to the brake disc also.<br></p>
92 <p class="Information" style="margin-top: 7.5px;"><strong style="font-weight: 800;">Pulsating</strong> - When applying the brake, if you experience a continuous
93 pulsating, this is an indication that the brake discs have become warped due to unrestrained heat. The reason for this is that the brake discs have been deformed
94 and no longer provide a flat surface when the brake pads makes contact.<br></p>
95 <p class="Information" style="margin-top: 7.5px;"><strong style="font-weight: 800;">Old Brake Fluid</strong> - If the brake fluid inside your vehicle is 2 years or
96 older, it may no longer be effective as it has hygroscopic properties as it absorbs moisture over time. Therefore, this has a negative impact on the braking
97 ability of the vehicle and the fluid will need replacing.</p>
98 </p>
99 
100 
101 </span>
102 <br>
103 <span id="NumberPlate">
104 <br><br>
105 <h2>Number Plates</h2><br>
106 <p class="Information">
107 If you choose to have your existing number plate replaced with a private one, you must ensure that your new number plate adheres to these following rules:
108 <p class="Information" style="margin-top: 6.25px;"><strong style="font-weight: 800;">1. The number plate must not make your car appear newer than it actually is.
109 For example, if your vehicle was manufactured in 2016, you cannot have a 18 number plate.</strong></p>
110 <p class="Information" style="margin-top: 6.25px;"><strong style="font-weight: 800;">2. The number plate cannot be of a font that is outside what has been deemed
111 permissible by DVLA and fonts that are allowed cannot be used in italics format.</strong></p>
112 <p class="Information" style="margin-top: 6.25px;"><strong style="font-weight: 800;">3. The number plate must be in the format outlined by the DVLA which consists
113 of two letters followed by two numbers, a space and three further letters.</strong></p>
114 <p class="Information" style="margin-top: 6.25px;"><strong style="font-weight: 800;">4. Background patterns on the plate aren't allowed and the characters on the
115 number plate need to be of the standard height and width.</strong></p>
116 <p class="Information" style="margin-top: 6.25px; margin-bottom: 6.25px;"><strong style="font-weight: 800;">5. No flag or identifiers of any country other than the
117 United Kingdom aren't permitted.</strong></p>
118 <p class="Information">At Cheeko MOT Centre, we provide personalised number plates to customers given that the requested plate doesn't violate the criteria set out
119 by DVLA. It is absolutely vital to mention that you could be fined up to £1000 and your vehicle will fail its MOT test if you drive with an invalid number plate.</p>
120 </p>
121 
122 
123 </span>
124 <br>
125 <span id="Servicing">
126 <br><br>
127 <h2>Servicing</h2><br>
128 <p class="Information">
129 During a service, a vehicle is inspected to check if your vehicle is safe and fully functioning based on the guidelines outlined by the vehicle manufacturer.
130 During the service, some parts of your car will be repaired/replaced depending on the issue as well as engine oil and filter changes. Servicing on a regular basis
131 can ensure that your vehicle runs smoothly and problems can be identified at an early stage which reduces the risk of the problem deteriorating and resulting in a
132 more costly repair in the future. Most modern cars are built in with an on-board computers that notify the owner when the vehicle needs servicing and it is advised
133 that drivers don't ignore any warnings even if you had your vehicle serviced recently. However, if no issue is detected, it is a good practice to have your vehicle
134 serviced every year or after 10,000 miles as you shouldn't compromise with your personal safety and the safety of your loved ones. At Cheeko MOT Centre, we offer
135 several servicing options ranging from oil and filter change to interim service or a full service. When coming for a service, it is recommended that you bring your
136 vehicle log book so the mechanic can stamp this once complete as having a service stamp in your log book would help in increasing the resale value of the vehicle as
137 it shows future owners that the vehicle has been well maintained.
138 </p>
139 
140 
141 </span>
142 <br>
143 <span id="Pricing">
144 <br><br>
145 <h2>Pricing</h2>
146 <br><br>
147 <div class="PricingTable">
148 <table>
149 <thead>
150 <tr>
151 <th>Service Type</th>
152 <th>Price</th>
153 <th>Duration <small style="font-size: 10px; font-weight: 800;">(In Minutes)</small></th>
154 </tr>
155 </thead>
156 <tbody>
157 <?php
158 //This SQL Query Is Used To Get The Details Of All The Services Provided By The MOT Centre From The Database
159 $Services = mysqli_query($Conn, "SELECT * FROM services");
160 while($Row = mysqli_fetch_assoc($Services)) {
161 <tr>
162 <td class="TableText"><?php echo $Row["ServiceName"] ?></td>
163 <?php
164 if($Row["ServicePrice"] == "0"){ ?>
165 <td class="TableText">FREE</td>
166 <?php } else { ?>
167 <td class="TableText"><?php echo ("£".(round($Row["ServicePrice"],2))) ?></td>
168 <?php } ?>
169 <td class="TableText"><?php echo ((($Row["Duration"]-15).".". $Row["Duration"])) ?></td>
170 </tr><?php } ?>
171 </tbody>
172 </table>
173 </div>
174 <br><br>
175 <span style="margin-bottom: 22.5px;">
176 </span>
177 <br style="margin-bottom: 22.5px;">
178 </div>
179 <?php include("Footer.php"); ?>
180 </body>
181 </html>

```

## CSS For 4:

```
1 @import url('https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;600;700;800&display=swap');
2 body{
3     overflow-x: hidden;
4     font-family: 'Open Sans', sans-serif;
5 }
6 .Layout{
7     margin: 30px 50px 2px 77.5px;
8     width: 1200px;
9 }
10 h2{
11     margin: -20px 0 5px 5px;
12     font-size: 30px;
13     font-weight: 800;
14     color: #484848;
15     letter-spacing: 2.5px;
16 }
17 .Information{
18     margin: -2.5px 5px 5px 5px;
19     font-weight: 400;
20     color: #484848;
21     margin-right: 250px;
22     text-align: justify;
23     font-size: 16.5px;
24     letter-spacing: 1.5px;
25     line-height: 23.75px;
26 }
27 .Redirect{
28     color: rgba(11,156,232,1);
29     font-weight: 400;
30     letter-spacing: 1px;
31 }
32 .CarImage{
33     width: 195px;
34     height: 125px;
35     display: block;
36     margin-top: -417.5px;
37     margin-bottom: 10px;
38     margin-left: 991px;
39     padding: 1.5px;
40     border: 1.5px solid #484848;
41 }
42 .CarImage2{
43     width: 195px;
44     height: 125px;
45     display: block;
46     margin-left: 991px;
47     margin-bottom: 10px;
48     padding: 1.5px;
49     border: 1.5px solid #484848;
50 }
51 .CarImage3{
52     width: 195px;
53     height: 125px;
54     display: block;
55     margin-left: 991px;
56     margin-bottom: 22.5px;
57     padding: 1.5px;
58     border: 1.5px solid #484848;
59 }
60 .CarImage4{
61     width: 195px;
62     height: 137.5px;
63     display: block;
64     margin-left: 991px;
65     margin-top: -275px;
66     margin-bottom: 137.5px;
67     padding: 1.5px;
68     border: 1.5px solid #484848;
69 }
70 .CarImage5{
71     width: 195px;
72     height: 137.5px;
73     display: block;
74     margin-left: 991px;
75     margin-top: -442.5px;
76     margin-bottom: 137.5px;
77     padding: 1.5px;
78     border: 1.5px solid #484848;
79 }
80 .CarImage6{
81     width: 195px;
82     height: 137.5px;
83     display: block;
84     margin-left: 991px;
85     margin-top: -75px;
86     margin-bottom: 112.5px;
87     padding: 1.5px;
88     border: 1.5px solid #484848;
89 }
90 .CarImage7{
91     width: 195px;
92     height: 125px;
93     display: block;
94     margin-left: 991px;
95     margin-top: -350px;
96     margin-bottom: 112.5px;
97     padding: 1.5px;
98     border: 1.5px solid #484848;
99 }
```

```
100 .CarImage8{
101     width: 195px;
102     height: 117.5px;
103     display: block;
104     margin-left: 991px;
105     margin-top: -67.5px;
106     margin-bottom: 75px;
107     padding: 1.5px;
108     border: 1.5px solid #484848;
109 }
110 .CarImage9{
111     width: 195px;
112     height: 127.5px;
113     display: block;
114     margin-left: 991px;
115     margin-top: -300px;
116     margin-bottom: 42.5px;
117     padding: 1.5px;
118     border: 1.5px solid #484848;
119 }
120 .CarImage10{
121     width: 195px;
122     height: 127.5px;
123     display: block;
124     margin-left: 991px;
125     margin-top: -20px;
126     margin-bottom: 32.5px;
127     padding: 1.5px;
128     border: 1.5px solid #484848;
129 }
130 hr{
131     margin-left: 5px;
132     width: 98.5%;
133     border: solid 1px #484848;
134     margin-bottom: 5px;
135 }
136 .PricingTable{
137     margin-left: 175px;
138 }
139 table{
140     border-collapse: separate;
141     border-spacing: 0;
142 }
143 .TableText{
144     text-align: left;
145     border: 1.5px solid #484848;
146     font-weight: 600;
147     padding: 7.5px 50px 7.5px 25px;
148     font-size: 15px;
149     letter-spacing: 1.625px;
150     color: #484848;
151 }
152 tr:nth-child(even){
153     background: #000000;
154 }
155 th{
156     font-size: 17.5px;
157     font-weight: 800;
158     border: 1.5px solid #484848;
159     padding: 10px 15px;
160     letter-spacing: 1.625px;
161     color: white;
162     background: #484848;
163     text-align: center;
164 }
165 th:first-child{
166     border-top-left-radius: 7.875px;
167 }
168 th:last-child{
169     border-top-right-radius: 7.875px;
170 }
171 table tr:last-child td:first-child{
172     border-bottom-left-radius: 7.875px;
173 }
174 table tr:last-child td:last-child{
175     border-bottom-right-radius: 7.875px;
176 }
```

## 5. Contact Us

Screenshot:

The screenshot shows the Cheeko MOT Centre website. At the top, there is a logo for 'MOT' and the text 'CHEEKO MOT CENTRE' in large red letters, with the address '431 Ilford Lane • IG1 2PG' below it. A navigation bar includes 'HOME', 'SERVICES', 'CONTACT US', and 'LOG IN'. Below the navigation is a map of the area around Cheeko Mot Centre, showing its location on Ilford Lane and nearby landmarks like Ilford Garage, Al Madina Mosque Barking, and Barking & District Indoor Bowls Club. To the right of the map is a form titled 'LEAVE US YOUR FEEDBACK' with fields for 'Full Name', 'Email Address', 'Subject', and a large 'Write Your Message...' area. Below the map, a section titled 'YOU CAN CONTACT US BY ANY OF THE FOLLOWING' features icons for a phone, a smartphone with a message bubble, and an envelope. At the bottom of the page is a blue footer bar with social media icons for Facebook, Twitter, Google+, and Instagram, and the text 'CHEEKO MOT CENTRE'.

Code:

```

1  <!doctype html>
2  <?php
3  session_start();
4  $LoggedIn = 0;
5  if(isset($_SESSION["UsernameLogin"]) || isset($_SESSION["AdminDetails"])){
6  $LoggedIn = 1;
7  }
8  use PHPMailer\PHPMailer\PHPMailer;
9  $AbusiveLanguageDetector = array('shit', 'fuck', 'bitch', 'asshole', 'motherfucker');
10 function Fix_Input($data){
11     $data=trim($data); //Removes any spaces at the beginning or end of data
12     $data=stripslashes($data); //Removes any quotation marks in the data
13     $data=htmlentities($data); //Converts special characters to HTML values
14     return $data;
15 }
16 $SentEmail = $Error = $Error2 = $Error3 = $Error4 = 0;
17 $FullName = $Email = $Subject = $FAQ = $Sender = "";
18 if(isset($_POST["Contact"])){
19     if(empty($_POST["FullName"])){
20         $Error = 1;
21     } else {
22         $FullName = Fix_Input($_POST["FullName"]);
23         if (!preg_match("/^[\a-zA-Z ]*$/",$FullName)){
24             $Error = 2;
25         }
26     }
27     if(empty($_POST["Email"])){
28         $Error2 = 1;
29     } else {
30         $Email = Fix_Input($_POST["Email"]);
31         if (!filter_var($Email, FILTER_VALIDATE_EMAIL)){
32             $Error2 = 2;
33         } else {
34             $Sender = "From: $Email";
35         }
36     }
37     if(empty($_POST["Subject"])){
38         $Error3 = 1;
39     } else {
40         $Subject = Fix_Input($_POST["Subject"]);
41         foreach($abusiveLanguageDetector as $InvalidInput){
42             if (strpos($Subject, $InvalidInput) !== FALSE){
43                 $Error3 = 2;
44             }
45         }
46     }
}

```

```

47     if(empty($_POST["FAQ"])){
48         $Error4 = 1;
49     } else {
50         $FAQ = Fix_Input($_POST["FAQ"]);
51         foreach($AbusiveLanguageDetector as $InvalidInput){
52             if (strpos($FAQ, $InvalidInput) === FALSE){
53                 $Error4 = 2;
54             } else {
55                 if(strlen($FAQ) < 10){
56                     $Error4 = 3;
57                 }
58             }
59         }
60     }
61     //I Have Used An External PHP Library Called PHPMailer To Send Feedback To The MOT Centres Email
62     if($Error == 0 && $Error2 == 0 && $Error3 == 0 && $Error4 == 0){
63         require_once('PHPMailer/PHPMailer.php');
64         require_once('PHPMailer/SMTP.php');
65         require_once('PHPMailer/Exception.php');
66         $Mail = new PHPMailer();
67         $Mail->IsSMTP();
68         $Mail->Host = "smtp.gmail.com";
69         $Mail->SMTPAuth = true;
70         $Mail->Username = "cheeko.mot.centre.11ford@gmail.com";
71         $Mail->Password = '*****';
72         $Mail->Port = 465;
73         $Mail->SMTPSecure = "ssl";
74         $Mail->IsHTML(true);
75         $Mail->setFrom($Email,$FullName);
76         $Mail->addAddress("cheeko.mot.centre.11ford@gmail.com");
77         $Mail->Subject = $Subject;
78         $Mail->Body = ($FAQ."  
". $Sender);
79         if($Mail->send()){
80             $SentEmail = 1;
81         } else {
82             $SentEmail = 2;
83         }
84     }
85     if(isset($_POST["SentEmail"])){
86         $SentEmail = 0;
87     }
88     if(isset($_POST["FailureEmail"])){
89         $SentEmail = 0;
90     }
91     ?>
92     <html>
93     <script>
94     localStorage.removeItem("AdminPinNumber");
95     </script>
96     <head>
97     <meta charset="utf-8">
98     <link rel="stylesheet" href="CSS/StyleContactUs.css" type="text/css">
99     <title>Contact Us - Cheeko MOT Centre</title>
100    </head>
101    <body>
102    <?php include("NavigationBar.php"); ?>
103    <div id="SentEmail" class="MessageBox">
104        <div class="MessageContainer">
105            <div class="MessageHeader">
106                <h2 style="letter-spacing: 10.75px; font-weight: 900;">FEEDBACK AND QUESTIONS</h2><hr>
107            </div>
108            <div class="MessageText" style="margin-top: 20px; padding: 15px 7.5px;">
109                <p>YOUR FEEDBACK HAS BEEN DELIVERED SUCCESSFULLY</p>
110            </div>
111            <div class="MessageFooter" style="margin-top: 31.675px;"><hr>
112                <form method="post">
113                    <button name="SentEmail" type="submit">CLOSE</button>
114                </form>
115            </div>
116        </div>
117    </div>
118    <div id="FailureEmail" class="MessageBox">
119        <div class="MessageContainer">
120            <div class="MessageHeader">
121                <h2 style="letter-spacing: 10.75px; font-weight: 900;">FEEDBACK AND QUESTIONS</h2><hr>
122            </div>
123            <div class="MessageText" style="margin-top: 12.5px; padding: 15px 7.5px; color: #751410;">
124                <p>FAILURE SENDING YOUR FEEDBACK. PLEASE TRY AGAIN LATER</p>
125            </div>
126            <div class="MessageFooter" style="margin-top: 20px;"><hr>
127                <form method="post">
128                    <button name="FailureEmail" type="submit">CLOSE</button>
129                </form>
130            </div>
131        </div>
132    </div>
133    <div id="Location">
134        <iframe src="https://www.google.com/maps/embed?pb=!1m1!1m2!1m1!1d2481.27819463516!2d0.0754649153289291!3d51.54479761578967!2m3!1f0!2f0!3fb!3m2!1i1924!2i788!4f13.1!3n3!1m2!1s0x47d8a66f3c4a382b63A0x7d4f4866b9">
135    </div>
136    <div class="Contact">
137        <h3>FAQ'S</h3>
138        <hr>
139        <form method="post" autocomplete="off">
140            <input class="Content" type="text" name="FullName" placeholder="Full Name" value="<?php echo $FullName ?>">
141            <input class="Content" type="text" name="Email" placeholder="Email Address" value="<?php echo $Email ?>">
142            <input class="Content" type="text" name="Subject" placeholder="Subject" value="<?php echo $Subject ?>">
143            <textarea class="Content" name="FAQ" cols="20" rows="10" placeholder="Write Your Message...><?php if(empty($FAQ)){ echo Fix_Input($FAQ); } ?>">
144            <button class="SubmitContactForm" type="button" name="Contact">CONTACT US</button>
145            <div id="Error1" class="ErrorBubble"><p id="Text1"></p></div>
146            <div id="Error2" class="ErrorBubble"><p id="Text2"></p></div>
147            <div id="Error3" class="ErrorBubble"><p id="Text3"></p></div>
148            <div id="Error4" class="ErrorBubble"><p id="Text4"></p></div>
149        </form>
150    </div>
151    <div id="ContactDetails">
152        <p class="ContactHeading">YOU CAN CONTACT US BY ANY OF THE FOLLOWING</p>
153        <a href="tel:02085140464" style="margin-left: 62.5px;"></a>
154        <a href="sms:02085140464"></a>
155        <a href="mailto:cheeko.mot.centre.11ford@gmail.com"></a>
156    </div><br>
157    <?php include("Footer.php"); ?>
158    </body>
159    <script>
160        var SentEmail = <?php echo json_encode($SentEmail, JSON_HEX_TAG); ?>;
161        var SentEmailBox = document.getElementById("SentEmail");
162        var FailureEmailBox = document.getElementById("FailureEmail");
163        var ErrorExist1 = <?php echo json_encode($Error, JSON_HEX_TAG); ?>;
164        var ErrorExist2 = <?php echo json_encode($Error2, JSON_HEX_TAG); ?>;
165        var ErrorExist3 = <?php echo json_encode($Error3, JSON_HEX_TAG); ?>;
166        var ErrorExist4 = <?php echo json_encode($Error4, JSON_HEX_TAG); ?>;
167        var Error1 = document.getElementById("Error1");
168        var Error2 = document.getElementById("Error2");
169        var Error3 = document.getElementById("Error3");
170        var Error4 = document.getElementById("Error4");
171        var Text1 = document.getElementById("Text1");
172        var Text2 = document.getElementById("Text2");
173        var Text3 = document.getElementById("Text3");
174        var Text4 = document.getElementById("Text4");
175        //I Have Used JavaScript To Display Error Messages Depending On What Error Has Occurred
176        if(SentEmail == 1){
177            SentEmailBox.style.display = "block";
178            FailureEmailBox.style.display = "none";
179        } else if(SentEmail == 2){
180            FailureEmailBox.style.display = "block";
181            SentEmailBox.style.display = "none";
182        } else {
183            SentEmailBox.style.display = "none";
184            FailureEmailBox.style.display = "none";
185        }
186    </script>

```

```

186     if(ErrorExist == 1){
187         Text1.innerHTML = "Full Name Is Required";
188         Error1.style.display = "block";
189     } else if(ErrorExist == 2){
190         Text1.innerHTML = "Name Can Only Contain Letters";
191         Error1.style.display = "block";
192     } else {
193         Error1.style.display = "none";
194     }
195     if(ErrorExist2 == 1){
196         Text2.innerHTML = "Email Address Is Required";
197         Error2.style.display = "block";
198     } else if(ErrorExist2 == 2){
199         Text2.innerHTML = "Email Address Format Is Invalid";
200         Error2.style.display = "block";
201     } else {
202         Error2.style.display = "none";
203     }
204     if(ErrorExist3 == 1){
205         Text3.innerHTML = "Subject Of The Message Is Required";
206         Error3.style.display = "block";
207     } else if(ErrorExist3 == 2){
208         Text3.innerHTML = "Abusive Language Has Been Detected In The Subject";
209         Error3.style.display = "block";
210     } else {
211         Error3.style.display = "none";
212     }
213     if(ErrorExist4 == 1){
214         Text4.innerHTML = "Message is Required";
215         Error4.style.display = "block";
216     } else if(ErrorExist4 == 2){
217         Text4.innerHTML = "Abusive Language Has Been Detected In The Message";
218         Error4.style.display = "block";
219     } else if(ErrorExist4 == 3){
220         Text4.innerHTML = "Message Must Be At Least 10 Characters In Length";
221         Error4.style.display = "block";
222     } else {
223         Error4.style.display = "none";
224     }
225 </script>

```

## CSS For 5:

```

1 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800;900&display=swap');
2 @import url('https://fonts.googleapis.com/css2?family=Roboto:wght@400;500&display=swap');
3 {
4     margin: 0;
5     padding: 0;
6     font-family: 'Poppins', sans-serif;
7 }
8 #Location{
9     margin-top: 18px;
10    margin-left: 81.25px;
11 }
12 .ContactHeading{
13     text-align: center;
14     padding: 25px 10px 25px;
15     font-weight: 800;
16     letter-spacing: 4.125px;
17     font-size: 17.5px;
18     color: #373737;
19     transform: scaleY(1.075);
20 }
21 .FAQTag{
22     text-align: center;
23     margin: 15px;
24     letter-spacing: 5.75px;
25     font-size: 27.5px;
26     color: #373737;
27     font-weight: 900;
28     transform: scaleY(1.075);
29 }
30 .Content{
31     font-family: 'Poppins', sans-serif;
32     width: 89.5%;
33     padding: 10px 15px;
34     margin: 7.5px 9.5px;
35     border-radius: 20px;
36     border: none;
37     border: 1.875px solid #797979;
38     outline: none;
39     font-weight: 500;
40     font-size: 13.75px;
41     letter-spacing: 1.5px;
42     color: #3E3A35;
43 }
44 ::placeholder{
45     color: #6E6E6E;
46 }
47 .SubmitContactForm{
48     font-family: 'Poppins', sans-serif;
49     width: 96%;
50     font-weight: 600;
51     letter-spacing: 2.5px;
52     padding: 15px;
53     margin: 7.5px 8.75px;
54     border-radius: 20px;
55     border: none;
56     outline: none;
57     font-size: 25px;
58     background: #166FEE;
59     display: block;
60     cursor: pointer;
61     color: white;
62 }
63 .SubmitContactForm:hover{
64     background: #1056B3;
65 }
66 #ContactDetails a{
67     padding: 0 10px;
68     margin: 0 20px;
69 }
70 #ContactDetails{
71     width: 661.75px;
72     height: 242.75px;
73     border-radius: 7.5px;
74     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
75     background: #E3E3E3;
76     margin: -247.5px 0 2.125px 81.25px;
77     position: relative;
78     cursor: default;
79 }
80
81 .Contact{
82     width: 519.625px;
83     height: auto;
84     padding: 12.45px 0;
85     background-color: #E3E3E3;
86     margin: -342.125px 0px 5px 750px;
87     box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px;
88     border-radius: 7.5px;
89 }
90 span{
91     display: block;
92     text-align: center;
93     padding: 7.5px 25px;
94     letter-spacing: 2.5px;
95     font-weight: 700;
96     color: white;
97     font-size: 12.75px;
98 }
99 @keyframes OpacityChange{
100    from{opacity: 0;}
101    to{opacity: 1;}
102 }
103 .ErrorBubble{
104     animation: OpacityChange 1.5s;
105     position: absolute;
106     width: 29.5px;
107     height: 28.5px;
108     padding: 5px;
109     background: #F68480;
110     border-radius: 15px;
111     border: #8B0000 solid 2px;
112     margin-top: -485px;
113     margin-left: -317.5px;
114     opacity: 0.875;
115 }
116 .ErrorBubble:after{
117     content: '';
118     position: absolute;
119     border-style: solid;
120     border-width: 9px 0 9px 16px;
121     border-color: transparent #F68480;
122     display: block;
123     width: 0;
124     z-index: 1;
125     right: -15px;
126     top: 11px;
127 }
128 .ErrorBubble:before{
129     content: '';
130     position: absolute;
131     border-style: solid;
132     border-width: 11px 0 11px 18px;
133     border-color: transparent #8B0000;
134     display: block;
135     width: 0;
136     z-index: 0;
137     right: -18.5px;
138     top: 9px;
139 }
140 .ErrorBubble2{
141     animation: OpacityChange 1.5s;
142     position: absolute;
143     width: 29.5px;
144     height: 28.5px;
145     padding: 5px;
146     background: #F68480;
147     border-radius: 15px;
148     border: #8B0000 solid 2px;
149     margin-top: -428.75px;
150     margin-left: -317.5px;
151     opacity: 0.875;
152 }

```

```

153 .ErrorBubble2:after{
154     content: '';
155     position: absolute;
156     border-style: solid;
157     border-width: 9px 0 9px 16px;
158     border-color: transparent #F68480;
159     display: block;
160     width: 0;
161     z-index: 1;
162     right: -15px;
163     top: 11px;
164 }
165 .ErrorBubble2:before{
166     content: '';
167     position: absolute;
168     border-style: solid;
169     border-width: 11px 0 11px 18px;
170     border-color: transparent #8B0000;
171     display: block;
172     width: 0;
173     z-index: 0;
174     right: -18.5px;
175     top: 9px;
176 }
177 .ErrorBubble3{
178     animation: OpacityChange 1.5s;
179     position: absolute;
180     width: 292.5px;
181     height: 28.5px;
182     padding: 5px;
183     background: #F68480;
184     border-radius: 15px;
185     border: #8B0000 solid 2px;
186     margin-top: -372.5px;
187     margin-left: -317.5px;
188     opacity: 0.875;
189 }
190 .ErrorBubble3:after{
191     content: '';
192     position: absolute;
193     border-style: solid;
194     border-width: 9px 0 9px 16px;
195     border-color: transparent #F68480;
196     display: block;
197     width: 0;
198     z-index: 1;
199     right: -15px;
200     top: 11px;
201 }
202 .ErrorBubble3:before{
203     content: '';
204     position: absolute;
205     border-style: solid;
206     border-width: 11px 0 11px 18px;
207     border-color: transparent #8B0000;
208     display: block;
209     width: 0;
210     z-index: 0;
211     right: -18.5px;
212     top: 9px;
213 }
214 .ErrorBubble4{
215     animation: OpacityChange 1.5s;
216     position: absolute;
217     width: 292.5px;
218     height: 28.5px;
219     padding: 5px;
220     background: #F68480;
221     border-radius: 15px;
222     border: #8B0000 solid 2px;
223     margin-top: -314.75px;
224     margin-left: -317.5px;
225     opacity: 0.875;
226 }
227 .ErrorBubble4:after{
228     content: '';
229     position: absolute;
230     border-style: solid;
231     border-width: 9px 0 9px 16px;
232     border-color: transparent #F68480;
233     display: block;
234     width: 0;
235     z-index: 1;
236     right: -15px;
237     top: 11px;
238 }
239 .ErrorBubble4:before{
240     content: '';
241     position: absolute;
242     border-style: solid;
243     border-width: 11px 0 11px 18px;
244     border-color: transparent #8B0000;
245     display: block;
246     width: 0;
247     z-index: 0;
248     right: -18.5px;
249     top: 9px;
250 }
251 .Contact p{
252     font-size: 10.875px;
253     text-align: center;
254     font-weight: 700;
255     font-family: 'Poppins', sans-serif;
256     letter-spacing: 1.125px;
257     color: darkred;
258 }

```

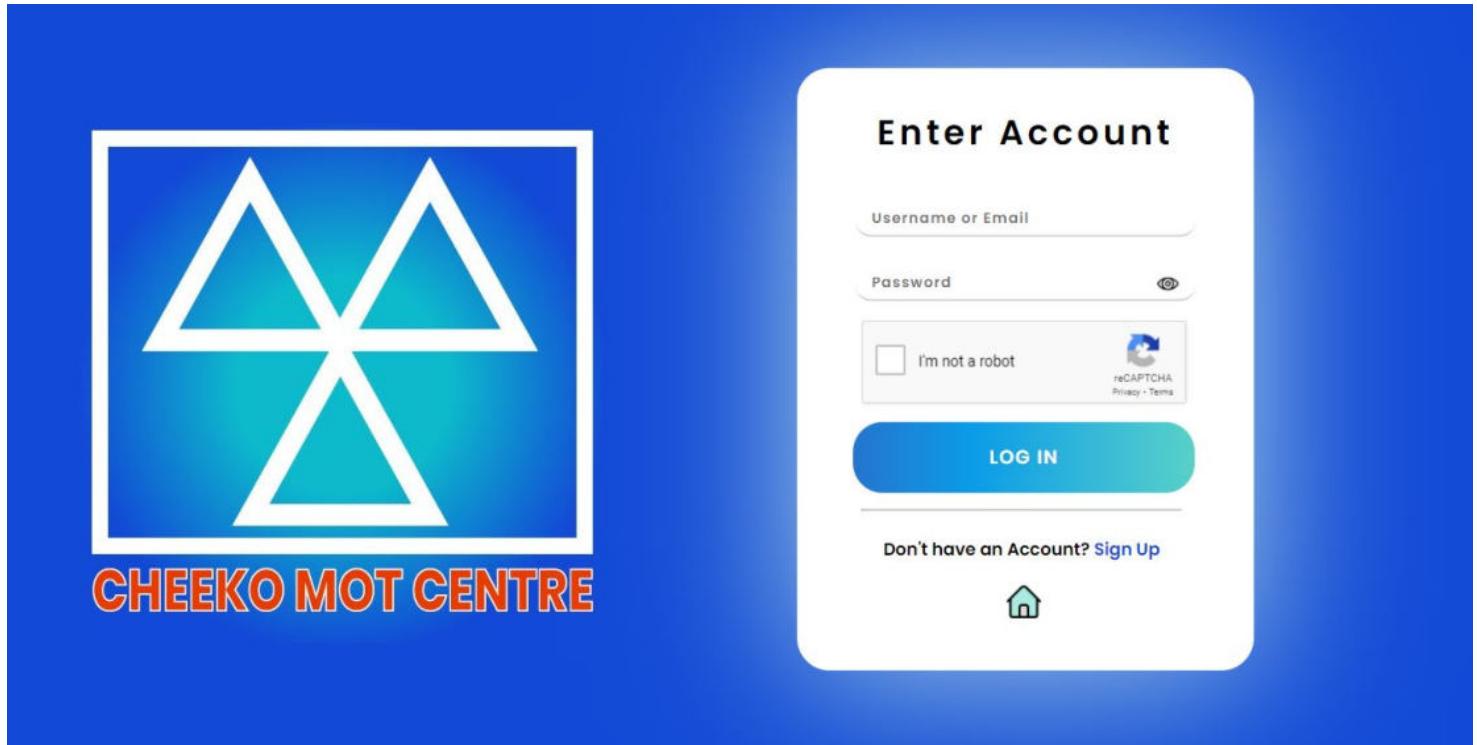
## 6. Database Connection Page

Code:

```
1  <?php
2  $User = 'root';
3  $Pass = '';
4  $dbName = 'cheekomotcentre';
5  $Host = 'localhost';
6  $Port = 3306;
7  $Conn = new mysqli($Host,$User,$Pass,$dbName,$Port) or die("Connection Failed: " . $Conn->error);
8  ?>
```

## 7. Login

Screenshot:



Code:

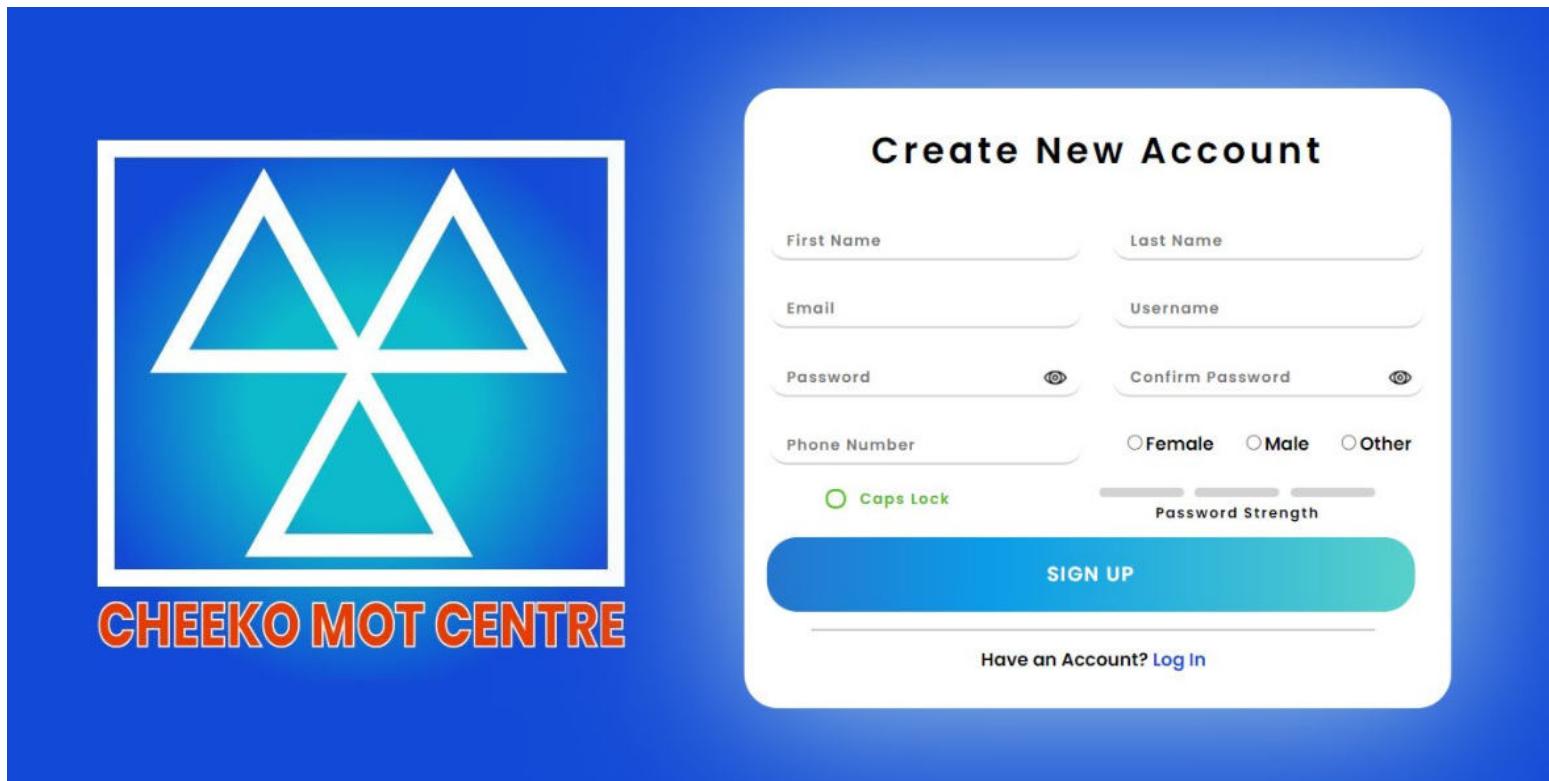
```
1  <?php
2  include("ConnectLoginSignupToMySQL.php");
3  include("AuthenticalLoginSignup.php");
4  if(isset($_SESSION['UsernameLogin'])){
5      header("Location: Account");
6  }
7  elseif(isset($_SESSION['AdminDetails'])){
8      header("Location: AdminConfirmation");
9  }
10
11 <!doctype html>
12 <html>
13 <head>
14 <link href="CSS/styleLoginSignup.css" rel="stylesheet" type="text/css">
15 <meta charset="utf-8">
16 <title>Login - Cheeko MOT Centre</title>
17 <script src="https://www.google.com/recaptcha/api.js" async defer></script>
18 </head>
19 
20 <div class="FormForLogin">
21     <form action="Login" method="post" autocomplete="off">
22         <h1 class="Heading">Enter Account</h1>
23         <?php if (count($LoginError)>0):?>
24             <div class="ErrorBox">
25                 <div class="ErrorMessage" style="padding: 5px 17.5px;">
26                     <?php foreach ($LoginError as $ErrorMessage):?>
27                         <?php echo $ErrorMessage . "<br>"?>
28                     </php endforeach ?>
29             </div>
30         </div>
31         <?php endif ?>
32         <input type="hidden" id="reCaptcha" name="reCaptcha">
33         <input type="text" name="UsernameLogin" placeholder="Username or Email" class="ContainerLogin" value="<?php echo $UsernameLogin ?>" spellcheck="false">
34         <input type="password" name="PasswordLogin" id="Password" placeholder="Password" class="ContainerLogin" value="<?php echo $PasswordLogin ?>"><span onClick="ShowHide1()" id="Toggle1">
35         <div class="reCaptcha"><div class="g-recaptcha" data-sitekey="6LfcZ9AZAAAAAC2w2ztk0Br5NjPyftylQvXX4tAB"></div></div>
36         <button type="submit" name="Login" class="SubmitLogin">LOG IN</button>
37         <br>
38         <br>
39         <p>Don't have an Account? <a href="Signup" class="RedirectToSignup">Sign Up</a></p>
40     </form>
41     <a href="Home"></a>
42 </div>
43 </body>
44 </script>
45 var Toggle1 = document.getElementById("Toggle1");
46 var Password = document.getElementById("Password");
47 function ShowHide1(){
48     if(Password.type === "password"){
49         Password.setAttribute("type","text");
50         Toggle1.classList.add("Hide");
51     } else {
52         Password.setAttribute("type","password");
53         Toggle1.classList.remove("Hide");
54     }
55 }
localStorage.removeItem("AdminPinNumber");
</script>
</body>
</html>
```

## Authenticate Login:

```
121 //Login Authentication
122 $LoginError=array();
123 $UsernameLogin=$PasswordLogin="";
124 if (isset($_POST["Login"])){
125     if(empty($_POST["UsernameLogin"])){
126         array_push($LoginError, "Please Enter Your Username/Email");
127         echo "<style>input[name='UsernameLogin']{border-bottom: 2px solid red !important;}</style>";
128     } else {
129         $UsernameLogin=Fix_Input($_POST["UsernameLogin"]);
130     }
131     if(empty($_POST["PasswordLogin"])){
132         array_push($LoginError, "Please Enter Your Password");
133         echo "<style>input[name='PasswordLogin']{border-bottom: 2px solid red !important;}</style>";
134     } else {
135         $PasswordLogin=Fix_Input($_POST["PasswordLogin"]);
136     }
137 //Through Google Services, I Have Successfully Embedded ReCaptcha Into My Website To Verify That The User Isn't A Robot
138 $SecretKey = "6LFCZ9AZAAAAADXmGbsa0xmBqtrjcbILwXWwL";
139 $ResponseKey = $_POST["g-recaptcha-response"];
140 $IPAddress = $_SERVER["REMOTE_ADDR"];
141 $Response = file_get_contents("https://www.google.com/recaptcha/api/siteverify?secret=$SecretKey&response=$ResponseKey&remoteip=$IPAddress");
142 $Response = json_decode($Response);
143 if(!$Response->success){
144     array_push($LoginError, "ReCaptcha Must Be Selected");
145 }
146 if(count($LoginError)==0){
147     $SQLQueryResult=mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username='".$UsernameLogin' OR Email='".$UsernameLogin"');
148     if (mysqli_num_rows($SQLQueryResult)>0){
149         while($Row = mysqli_fetch_assoc($SQLQueryResult)){
150             //As The Password Is Encrypted, We Cannot Verify The Password From The Database Hence This PHP Function Has To Be Used To Verify The Password
151             if(password_verify($PasswordLogin, $Row['Password'])){
152                 //The Customers Status Is Updated From Offline To Online If They Successfully Sign IN
153                 mysqli_query($Conn,"UPDATE customerdetails SET Status='Online' WHERE Username='".$UsernameLogin' OR Email='".$UsernameLogin"");
154                 if($UsernameLogin == "Admin_1" || $UsernameLogin == "cheeko.mot.centre.4lford@gmail.com"){
155                     //This Session Is Created To Allow The Admin To Connect To Their Account Which Has A Different Interface And Facilitates To Customer
156                     $_SESSION["AdminDetails"] = $UsernameLogin;
157                     header("Location: AdminConfirmation");
158                 } else {
159                     //This Session Is Created To Allow The Customer To Connect To Their Account
160                     $_SESSION["UsernameLogin"] = $UsernameLogin;
161                     header("Location: Account");
162                 }
163             } else {
164                 array_push($LoginError, "Username/Email or Password is Incorrect");
165                 echo "<style>input[name='PasswordLogin'], input[name='UsernameLogin']{border-bottom: 2px solid red !important;}</style>";
166             }
167         }
168     } elseif((mysqli_num_rows($SQLQueryResult)==0)){
169         array_push($LoginError, "Username/Email or Password is Incorrect");
170         echo "<style>input[name='PasswordLogin'], input[name='UsernameLogin']{border-bottom: 2px solid red !important;}</style>";
171     }
172 }
173 ?>
```

## 8. Signup

### Screenshot:



## Code:

```

1  <?php
2  include("ConnectToMySQL.php");
3  include("AuthenticateLogin.php");
4  if(isset($_SESSION['UsernameLogin'])){
5      header("Location: Account");
6  } ?>
7  <!DOCTYPE html>
8  <html>
9  <head>
10 <meta charset="utf-8">
11 <title>Signup - Cheeko MOT Centre</title>
12 <link href="CSS/StyleLoginSignup.css" rel="stylesheet" type="text/css">
13 </head>
14 
15 <div class="Form">
16     <form action="Signup" method="post" autocomplete="off">
17         <h1>Create New Account</h1>
18         <?php if (count($Error) > 0) :?>
19             <div class="ErrorBoxForSignup">
20                 <div class="ErrorMessage">
21                     <?php foreach ($Error as $Error) :?>
22                         <?php echo $OutputError . "<br>"?>
23                     <?php endforeach ?>
24                 </div>
25             </div>
26         <?php endif ;?>
27         <input type="text" name="fName" class="Container" placeholder="First Name" value="<?php echo $fName;?>">
28         <input type="text" name="lName" class="Container" placeholder="Last Name" value="<?php echo $lName;?>">
29         <input type="text" name="Email" class="Container" placeholder="Email" value="<?php echo $Email;?>">
30         <input type="text" name="Username" class="Container" placeholder="Username" value="<?php echo $Username;?>">
31         <input type="password" id="Password" name="Password" class="Container" placeholder="Password" value="<?php echo $Password;?>">
32         <input type="password" id="ConPassword" class="Container" placeholder="Confirm Password" onkeyup="CapsLock()" value="<?php echo $ConPassword;?>">
33         <input type="text" name="PhoneNumber" class="Container" placeholder="Phone Number" value="<?php echo $PhoneNumber;?>">
34         <input type="radio" name="Gender" value="Female" class="ContainerRadio">Female
35         <input type="radio" name="Gender" value="Male" class="ContainerRadio">Male
36         <input type="radio" name="Gender" value="Other" class="ContainerRadio">Other
37         <div style="margin-left: -12.875px; padding: 3.875px 10px; margin-bottom: 20px;">
38             <span id="Caps" style="width: 17.5px; height: 17.5px; border: 2px solid #4C8B17; border-radius: 50%; position: absolute; margin-left: 65px; margin-top: 9.5px;><span>
39                 <span class="Indicators">
40                     <span id="Weak" class="PasswordMeter"></span><span id="Average" class="PasswordMeter" style="margin-left: 391.25px;"></span><span id="Strong" class="PasswordMeter" style="margin-left: 391.25px;"><span>
41             </div>
42             <button type="submit" name="SignupAccount" class="Submit" style="position: relative; margin-top: 15px;">SIGN UP</button>
43             <br>
44             <p>Have an Account? <a href="Login" class="RedirectToLogin">Log In</a></p>
45         </form>
46     </div>
47 </script>
48 const Length = document.getElementById("Length");
49 const Weak = document.getElementById("WeakPassword");
50 const Strong = document.getElementById("StrongPassword");
51 const Stronger = document.getElementById("Strong");
52 const Average = document.getElementById("Average");
53 const AverageMeter = document.getElementById("AverageMeter");
54 const StrongerMeter = document.getElementById("Stronger");
55 var Message = document.getElementById("Display");
56 var MessageDiv = document.getElementsByClassName("Display");
57 var Toggle1 = document.getElementById("Toggle1");
58 var Toggle2 = document.getElementById("Toggle2");
59 var Password = document.getElementById("Password");
60 var ConPassword = document.getElementById("ConPassword");
61 var PasswordsDontMatch = document.getElementById("PasswordsDontMatch");
62 var PasswordsMatch = document.getElementById("PasswordsMatch");
63 var Capslock = document.getElementById("Caps");
64 var CapslockD = document.getElementById("CapslockD");
65 //Through JavaScript Event Listeners, I Have Created A Password Strength Detector System That Tells The User If There Password Is Weak, Average, Strong Or If The Password And Confirmed Password Don't Match
66 Password.addEventListener("keyup",function(){
67     if(Password.value.length != 0){
68         if(Password.value.length < 6 || Password.value.match(/[^a-z]/) || ((Password.value.match(/[^a-z]/)) && Password.value.match(/[^A-Z]/))){
69             Message.style.display = "none";
70             Weak.style.display = "block";
71             WeakMeter.style.background = "#FF4757";
72             PasswordsDontMatch.style.display = "none";
73             PasswordsMatch.style.display = "none";
74         }
75         if(Password.value.length > 6 && Password.value.match(/[^a-zA-Z]/g) && Password.value.match(/\d/g) && !Password.value.match(/\W/_/g)){
76             Message.style.display = "none";
77             Weak.style.display = "none";
78             Average.style.display = "block";
79             AverageMeter.style.background = "#FF4757";
80             Strong.style.display = "none";
81             WeakMeter.style.background = "#FF4757";
82             AverageMeter.style.background = "orange";
83             StrongMeter.style.background = "lightgray";
84             PasswordsDontMatch.style.display = "none";
85             PasswordsMatch.style.display = "none";
86         }
87         else {
88             Weak.style.display = "block";
89             Average.style.display = "none";
90             AverageMeter.style.background = "lightgray";
91             if(Password.value.length > 6 && Password.value.match(/[^a-zA-Z]/g) && Password.value.match(/\d/g) && Password.value.match(/\W/_/g)){
92                 Message.style.display = "none";
93                 Weak.style.display = "none";
94                 Strong.style.display = "block";
95                 WeakMeter.style.background = "#FF4757";
96                 AverageMeter.style.background = "#23AD5C";
97                 StrongMeter.style.background = "#FF4757";
98                 PasswordsDontMatch.style.display = "none";
99                 PasswordsMatch.style.display = "none";
100            }
101            else {
102                Weak.style.display = "block";
103                Average.style.display = "none";
104                Strong.style.display = "none";
105                StrongMeter.style.background = "lightgray";
106            }
107        }
108        if(Password.value.length > 15){
109            Message.style.display = "none";
110            Weak.style.display = "none";
111            Average.style.display = "none";
112            PasswordsDontMatch.style.display = "none";
113            PasswordsMatch.style.display = "none";
114            Length.style.display = "block";
115            WeakMeter.style.background = "#FF4757";
116            AverageMeter.style.background = "#FF4757";
117            StrongMeter.style.background = "#FF4757";
118        }
119        else {
120            Length.style.display = "none";
121        }
122    }
123    ConPassword.addEventListener("keyup",function(){
124        if(ConPassword.value.length != 0){
125            if(ConPassword.value != Password.value){
126                PasswordsDontMatch.style.display = "block";
127                PasswordsMatch.style.display = "none";
128                WeakMeter.style.background = "lightgray";
129                AverageMeter.style.background = "lightgray";
130                StrongMeter.style.background = "lightgray";
131            }
132        }
133    })
134    ConPassword.addEventListener("keyup",function(){
135        if(ConPassword.value.length != 0){
136            if(ConPassword.value != Password.value){
137                PasswordsDontMatch.style.display = "block";
138                PasswordsMatch.style.display = "none";
139            }
140        }
141    })
142 }
143

```

```

139     Message.style.display = "none";
140     Weak.style.display = "none";
141     Average.style.display = "none";
142     Strong.style.display = "none";
143     Length.style.display = "none";
144     WeakMeter.style.background = "#FF4757";
145     AverageMeter.style.background = "#FF4757";
146     StrongMeter.style.background = "#FF4757";
147   } else [
148     PasswordsDontMatch.style.display = "none";
149     PasswordsMatch.style.display = "block";
150     Message.style.display = "none";
151     Weak.style.display = "none";
152     Average.style.display = "none";
153     Strong.style.display = "none";
154     Length.style.display = "none";
155     WeakMeter.style.background = "#23AD5C";
156     AverageMeter.style.background = "#23AD5C";
157     StrongMeter.style.background = "#23AD5C";
158   ]
159 } else [
160   PasswordsDontMatch.style.display = "none";
161   PasswordsMatch.style.display = "none";
162 ]
163 }
164 Password.addEventListener("keyup", function(Event){
165   if(Event.getModifierState("CapsLock")){
166     CapsLock.style.borderColor = "#000000";
167     CapsLockOn.style.color = "#000000";
168   } else {
169     CapsLock.style.borderColor = "#ACB817";
170     CapsLockOn.style.color = "#ACB817";
171   }
172 })
173 ConPassword.addEventListener("keyup", function(Event){
174   if(Event.getModifierState("CapsLock")){
175     Capslock.style.borderColor = "#000000";
176     CapslockOn.style.color = "#000000";
177   } else {
178     Capslock.style.borderColor = "#ACB817";
179     CapslockOn.style.color = "#ACB817";
180   }
181 })
182 //This Function Changes The Passwords Visibility From Text To Password When The Icon Is Clicked Which Helps Improve The User Ease And Experience
183 function ShowHide1(){
184   if(Password.type === "password"){
185     Password.setAttribute("type","text");
186     Toggle1.classList.add("Hide");
187   } else {
188     Password.setAttribute("type","password");
189     Toggle1.classList.remove("Hide");
190   }
191 }
192 function ShowHide2(){
193   if(ConPassword.type === "password"){
194     ConPassword.setAttribute("type","text");
195     Toggle2.classList.add("Hide");
196   } else {
197     ConPassword.setAttribute("type","password");
198     Toggle2.classList.remove("Hide");
199   }
200 }
201 </script>
202 </html>

```

## Authenticate Signup:

```

1 <?php
2 session_start();
3 include('ConnectLoginsignupToMySQL.php');
4 //This Function Cleans Any Inputs Before They Are Inserted Into The Database
5 function Fix_Input($Data){
6   $Data=trim($Data); //Removes any spaces at the beginning or end of data
7   $Data=stripslashes($Data); //Removes any quotation marks in the data
8   $Data=htmlspecialchars($Data); //Converts special characters to HTML values
9   return $Data;
10 }
11 //Signup Authentication
12 $fName=$lName=$Email=$Username=$Password=$PhoneNumber=$Gender="";
13 //In Almost All Forms, I Use An Array To Store Error Messages And The Array Is Later Converted To A String And The Error Messages Are Outputted To The User
14 $Error=array();
15 if (isset($_POST["SignupAccount"])){
16   if(empty($_POST["fName"])){
17     array_push($Error, "First Name is Required");
18     echo "<style>input[name='fName']{border-bottom: 2px solid red !important;}</style>";
19   } else {
20     $fName=Fix_Input($_POST["fName"]);
21     if (!preg_match("/^([a-zA-Z ]*)$/",$fName)) {
22       array_push($Error, "First Name Can Only Contain Letters");
23       echo "<style>input[name='fName']{border-bottom: 2px solid red !important;}</style>";
24     }
25   }
26   if(empty($_POST["lName"])){
27     array_push($Error, "Last Name is Required");
28     echo "<style>input[name='lName']{border-bottom: 2px solid red !important;}</style>";
29   } else {
30     $lName=Fix_Input($_POST["lName"]);
31     if (!preg_match("/^([a-zA-Z ]*)$/",$lName)) {
32       array_push($Error, "Last Name Can Only Contain Letters");
33       echo "<style>input[name='lName']{border-bottom: 2px solid red !important;}</style>";
34     }
35   }
36   if(empty($_POST["Email"])){
37     array_push($Error, "Email Address is Required");
38     echo "<style>input[name='Email']{border-bottom: 2px solid red !important;}</style>";
39   } else {
40     $Email=Fix_Input($_POST["Email"]);
41     if (!filter_var($Email, FILTER_VALIDATE_EMAIL)) {
42       array_push($Error, "Email Address Format is Invalid");
43       echo "<style>input[name='Email']{border-bottom: 2px solid red !important;}</style>";
44     } else {
45       $EmailCount=mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Email='".$Email' LIMIT 1");
46       if (mysql_num_rows($EmailCount)>0){
47         array_push($Error, "An Account With This Email Address Already Exists");
48         echo "<style>input[name='Email']{border-bottom: 2px solid red !important;}</style>";
49       }
50     }
51   }
52   if(empty($_POST["Username"])){
53     array_push($Error, "Username is Required");
54     echo "<style>input[name='Username']{border-bottom: 2px solid red !important;}</style>";
55   } else {
56     $Username=Fix_Input($_POST["Username"]);
57     $UsernameCount=mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username='".$Username' LIMIT 1");
58     if (mysql_num_rows($UsernameCount)>0){
59       array_push($Error, "This Username Is Already Taken");
60       echo "<style>input[name='Username']{border-bottom: 2px solid red !important;}</style>";
61     } else {
62       if(((strlen($Username) < 6) || ((strlen($Username) > 15))){
63         array_push($Error, "Username must be 6 to 15 Characters In Length");
64         echo "<style>input[name='Username']{border-bottom: 2px solid red !important;}</style>";
65       }
66     }
67   }
68 }
69 </?php

```

```

68
69     if(empty($_POST["Password"])){
70         array_push($Error, "Password is Required");
71         echo "<style>input[name='Password']{border-bottom: 2px solid red !important;}</style>";
72     } else {
73         $Password=Fix_Input($_POST["Password"]);
74         if(strlen($Password) < 6 || (strlen($Password) > 15)){
75             array_push($Error, "Password Must Be 6 To 15 Characters In Length");
76             echo "<style>input[name='Password']{border-bottom: 2px solid red !important;}</style>";
77         } else {
78             $UpperCaseLetter = preg_match('@[A-Z]@i', $Password);
79             $LowerCaseLetter = preg_match('@[a-z]@i', $Password);
80             $Number = preg_match('@[0-9]@i', $Password);
81             if(!UpperCaseLetter || !$LowerCaseLetter || !$Number){
82                 array_push($Error, "Please Choose Another Password As This Password Is Weak");
83                 echo "<style>input[name='Password']{border-bottom: 2px solid red !important;}</style>";
84             }
85         }
86     }
87     if(empty($_POST["ConPassword"])){
88         echo "<style>input[name='ConPassword']{border-bottom: 2px solid red !important;}</style>";
89     } else {
90         $ConPassword=Fix_Input($_POST["ConPassword"]);
91         if($Password != $ConPassword){
92             array_push($Error, "Both Passwords Don't Match");
93             echo "<style>input[name='Password']{border-bottom: 2px solid red !important;}</style>";
94             echo "<style>input[name='ConPassword']{border-bottom: 2px solid red !important;}</style>";
95         }
96     }
97     if(empty($_POST["PNumber"])){
98         array_push($Error, "Phone Number is Required");
99         echo "<style>input[name='PNumber']{border-bottom: 2px solid red !important;}</style>";
100    } else {
101        $PhoneNumber=Fix_Input($_POST["PNumber"]);
102        if(!preg_match('/^([0-9]{11}+$/s', $PhoneNumber)){
103            array_push($Error, "Phone Number is Invalid");
104            echo "<style>input[name='PNumber']{border-bottom: 2px solid red !important;}</style>";
105        }
106    }
107    if(empty($_POST["Gender"])){
108        array_push($Error, "Gender is Required");
109    } else {
110        $Gender=Fix_Input($_POST["Gender"]);
111    }
112    if (count($Error)==0){
113        $_SESSION["fName"]=$fName;
114        $_SESSION["lName"]=$lName;
115        $_SESSION["Username"]=$Username;
116        //The Password Is Hashed/Encrypted Before It Is Inserted Into The Database When The User Creates An Account
117        $Password = password_hash($Password, PASSWORD_DEFAULT);
118        mysqli_query($Conn, "INSERT INTO customerdetails (FirstName, LastName, Email, Username, Password, PhoneNumber, Gender) VALUES ('$fName', '$lName', '$Email', '$Username', '$Password', '$PhoneNumber', '$Gender')");
119    }
120 }

```

## CSS For 7.8 And 11:

```

1 @import url('https://fonts.googleapis.com/css2?family=Montserrat+Alternates:wght@500&display=swap');
2 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@600&display=swap');
3 @import url('https://fonts.googleapis.com/css2?family=Manrope&display=swap');
4 {
5     box-sizing: border-box;
6     margin: 0;
7     padding: 0;
8     text-decoration: none;
9     overflow: hidden;
10    font-family: 'Poppins', sans-serif;
11 }
12 body{
13     background-color: #124AD6;
14 }
15 .Logo{
16     margin: 110px 10px 0px 70px;
17     position: absolute;
18     animation-name: LogoSlide;
19     animation-duration: 1s;
20 }
21 @keyframes LogoSlide{
22     from{margin: 110px 10px 0px -1000px;}
23     to{margin: 110px 10px 0px 70px;}
24 }
25 h1{
26     text-align: center;
27     padding-bottom: 20px;
28     letter-spacing: 3.75px;
29 }
30 .Form{
31     width: 625px;
32     height: auto;
33     background-color: white;
34     transform: translate(95%,-51.25%);
35     top: 50%;
36     right: 50%;
37     padding: 30px 10px;
38     border-radius: 30px;
39     position: absolute;
40     box-shadow: 1px 1px 150px 1px lightblue;
41     animation-name: Slide;
42     animation-duration: 1s;
43 }
44 .FormForLogin{
45     width: 425px;
46     height: auto;
47     background-color: white;
48     transform: translate(112.5%, -52.25%);
49     top: 50%;
50     right: 50%;
51     padding: 35px 10px;
52     border-radius: 30px;
53     position: absolute;
54     box-shadow: 1px 1px 150px 1px lightblue;
55     animation-name: Slide;
56     animation-duration: 1s;
57 }
58 @keyframes Slide{
59     from{right: -200px; opacity: 0}
60     to{right: 50%; opacity: 1}
61 }
62 .Container{
63     margin: 20px 12.5px 7.5px;
64     padding: 5px 15px;
65     width: 275px;
66     border-radius: 15px;
67     border:none;
68     border-bottom: 2px solid lightgray;
69     outline: none;
70     letter-spacing: 1.125px;
71 }
72 .ContainerLogin{
73     margin: 20px 44.25px 7.5px;
74     padding: 5px 15px;
75     width: 78.125px;
76     border-radius: 15px;
77     border:none;
78     border-bottom: 2px solid lightgray;
79     outline: none;
80     letter-spacing: 1.125px;
81 }
82 .ContainerRadio{
83     margin: 1px 3px 0px 25px;
84 }
85 hr{
86     margin:10px 50px;
87     width: 297.5px;
88 }
89 p{
90     text-align: center;
91     margin-top: -12.5px;
92     margin-left: -7.5px;
93 }
94 .ErrorBox{
95     margin: 0 44.25px;
96     width: 77.5%;
97     height: auto;
98     background-color: #F68480;
99     border-radius: 28px;
100    opacity: 75%;
101    border: 2px solid darkred;
102 }
103 .ErrorBoxForSignup{
104     margin: 0 12.5px;
105     width: 95.5%;
106     height: auto;
107     background-color: #F68480;
108     border-radius: 20px;
109     opacity: 75%;
110     border: 2px solid darkred;
111 }

```

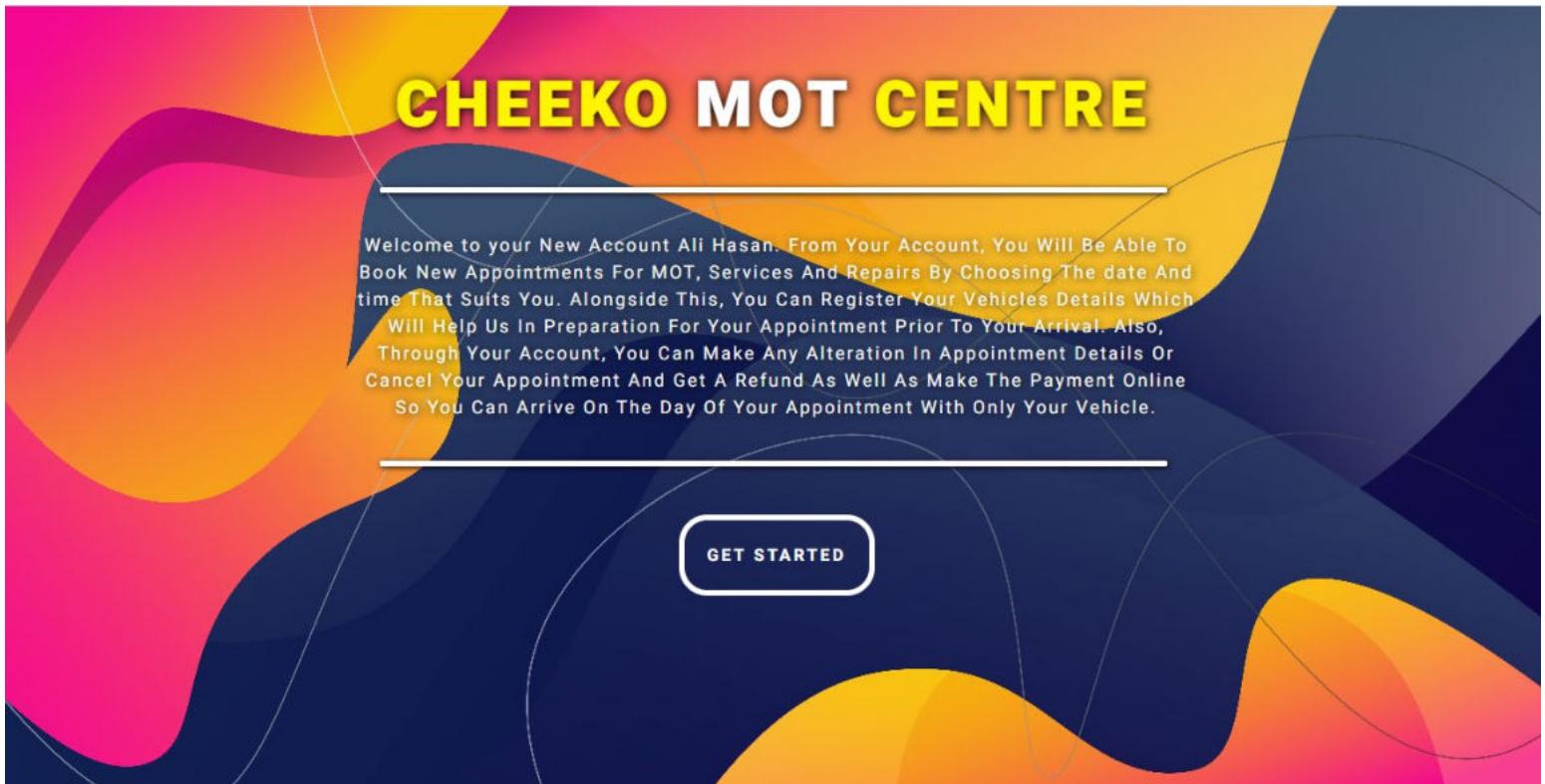
```

112 .ErrorMessage{
113     letter-spacing: 0.875px;
114     padding: 5px 25px;
115     text-align:left;
116     color: darkred;
117     margin: 2.5px 10px;
118     font-size: 10.5px;
119 }
120 .Submit{
121     text-align: center;
122     height: 65px;
123     width: 572.5px;
124     margin: 20px 10px;
125     padding:5px 10px;
126     cursor: pointer;
127     display: block;
128     background: linear-gradient(90deg, #2675CD 0%, #0B9CE8 35%, #59D1CA 100%);
129     outline: none;
130     border: none;
131     border-radius: 27.5px;
132     font-size: 17.5px;
133     color: white;
134     letter-spacing: 1.25px;
135 }
136 .SubmitLogin{
137     text-align: center;
138     height: 65px;
139     width: 78.375%;
140     margin: 12.5px 42.25px 5px;
141     cursor: pointer;
142     display: inline-block;
143     background: linear-gradient(90deg, #2675CD 0%, #0B9CE8 35%, #59D1CA 100%);
144     outline: none;
145     border: none;
146     border-radius: 27.5px;
147     font-size: 17.5px;
148     color: white;
149     letter-spacing: 1.25px;
150 }
151 .SubmitLogin:hover{
152     background: linear-gradient(90deg, #2063AD 0%, #0987C9 35%, #38C7BF 100%);
153 }
154 .Message{
155     padding: 5px 25px;
156     text-align:center;
157     color: darkgreen;
158     margin: 2.5px 10px;
159     font-size: 10.5px;
160 }
161 .reCaptcha{
162     margin: 10px 50.125px 2.5px;
163 }
164 .Line{
165     margin:0px 50px;
166     width: 82.275%;
167 }
168 a.RedirectToSignup, a.RedirectToLogin{
169     color: #124AD6;
170 }
171 a.RedirectToSignup:visited, a.RedirectToLogin:visited{
172     color: #124AD6;
173 }
174 .Submit:hover{
175     background: linear-gradient(90deg, #2063AD 0%, #0987C9 35%, #38C7BF 100%);
176 }
177 #Toggle1{
178     background: url("../Show-Password.png");
179     background-repeat: no-repeat;
180     background-size: cover;
181     width: 28px;
182     height: 28px;
183     right: 340px;
184     position: absolute;
185     margin-top: 25.5px;
186     cursor: pointer;
187 }
188 #Toggle1.Hide{
189     background: url("../Hide-Password.png");
190     background-repeat: no-repeat;
191     background-size: cover;
192     width: 28px;
193     height: 28px;
194     right: 340px;
195     position: absolute;
196     margin-top: 25.5px;
197     cursor: pointer;
198 }
199 #Toggle2{
200     background: url("../Show-Password.png");
201     background-repeat: no-repeat;
202     background-size: cover;
203     width: 20px;
204     height: 20px;
205     right: 35px;
206     position: absolute;
207     margin-top: 25.5px;
208     cursor: pointer;
209 }
210 #Toggle2.Hide{
211     background: url("../Hide-Password.png");
212     background-repeat: no-repeat;
213     background-size: cover;
214     width: 20px;
215     height: 20px;
216     right: 35px;
217     position: absolute;
218     margin-top: 25.5px;
219     cursor: pointer;
220 }
221 #Toggle3{
222     background: url("../Show-Password.png");
223     background-repeat: no-repeat;
224     background-size: cover;
225     width: 28px;
226     height: 28px;
227     right: 340px;
228     position: absolute;
229     margin-top: 25.5px;
230     cursor: pointer;
231 }
232 #Toggle3.Hide{
233     background: url("../Hide-Password.png");
234     background-repeat: no-repeat;
235     background-size: cover;
236     width: 28px;
237     height: 28px;
238     right: 340px;
239     position: absolute;
240     margin-top: 25.5px;
241     cursor: pointer;
242 }
243 .PasswordMeter{
244     width: 75px;
245     height: 7.5px;
246     background: lightgray;
247     border-radius: 7.5px;
248     position: absolute;
249     margin-left: 306.75px;
250     margin-top: 8.75px;
251 }
252 .Display{
253     margin-left: 336.5px;
254     position: absolute;
255     font-size: 12.5px;
256     margin-top: 21.25px;
257     letter-spacing: 1.5px;
258 }
259 .PasswordChecker{
260     margin-left: 15px;
261     padding: 2.5px 10px;
262 }
263 #Caps{
264     width: 17.5px;
265     height: 17.5px;
266     border: 2px solid #4CBB17;
267     border-radius: 50%;
268     position: absolute;
269     margin-left: 65px;
270     margin-top: 9.5px;
271 }
272 #CapsLockOn{
273     margin-left: 95px;
274     letter-spacing: 1.25px;
275     font-size: 13.25px;
276     position: absolute;
277     margin-top: 9px;
278     color: #4CBB17;
279     margin-bottom: 18px;
280 }
281 #WeakPassword{
282     margin-left: 337.875px;
283     display: none;
284     color: #FF4757;
285 }
286 #Average{
287     margin-left: 391.25px;
288 }
289 #AveragePassword{
290     margin-left: 328.675px;
291     display: none;
292     color: orange;
293 }
294 #Strong{
295     margin-left: 475.75px;
296 }
297 #StrongPassword{
298     margin-left: 332.5px;
299     display: none;
300     color: #23AD5C;
301 }
302 #Length{
303     margin-left: 292.5px;
304     display: none;
305     font-size: 10px;
306     color: #FF4757;
307 }
308 #PasswordsDontMatch{
309     margin-left: 320.5px;
310     display: none;
311     color:#FF4757;
312 }
313 #PasswordsMatch{
314     margin-left: 338.875px;
315     display: none;
316     color: #23AD5C;
317 }
318 .SubmitUpdateForm{
319     letter-spacing: 2px;
320     margin-top: 50px;
321     text-align: center;
322     height: 65px;
323     width: 572.5px;
324     margin: 25px 10px;
325     margin-left: 14.875px;
326     padding: 5px 10px;
327     cursor: pointer;
328     display: block;
329     background: linear-gradient(90deg, #2675CD 0%, #0B9CE8 35%, #59D1CA 100%);
330     outline: none;
331     border: none;
332     border-radius: 27.5px;
333     font-size: 17.5px;
334     color: white;
335 }
336 .SubmitUpdateForm:hover{
337     background: linear-gradient(90deg, #2063AD 0%, #0987C9 35%, #38C7BF 100%);
338 }
339 .ReadOnly{
340     margin: 28px 12.5px 7.5px;
341     padding:5px 15px;
342     width: 275px;
343     border-radius: 15px;
344     border: none;
345     border-bottom: 2px solid #124AD6;
346     outline: none;
347     letter-spacing: 1.125px;
348 }

```

## 9. New Account Page

Screenshot:



Code:

```
1  <!DOCTYPE html>
2  <?php
3  session_start();
4  error_reporting(0);
5  include("ConnectLoginSignupToMySQL.php");
6  if(!isset($_SESSION['Username'])){
7      header("Location: Login");
8  } ?>
9  <html lang="en">
10 <head>
11 <meta charset="UTF-8">
12 <title>New Account Created · Cheeko MOT Centre</title>
13 <link rel="stylesheet" href="CSS/StyleAfterSignup.css" type="text/css">
14 </head>
15 <body>
16 <h1>CHEEKO <a>MOT</a> CENTRE</h1><hr>
17 <p>Welcome to your New Account <?php echo($_SESSION["fName"]." ".$_SESSION["lName"]);?>. From Your Account, You Will Be Able To Book New Appointments For MOT, Services And Repairs By Choosing The date And time That Suits You. Alongside This, You Can Register Your Vehicles Details Which Will Help Us In Preparation For Your Appointment Prior To Your Arrival. Also, Through Your Account, You Can Make Any Alteration In Appointment Details Or Cancel Your Appointment And Get A Refund As Well As Make The Payment Online So You Can Arrive On The Day Of Your Appointment With Only Your Vehicle.</p><hr>
18 <form method="post">
19 <button name="Redirect">GET STARTED</button>
20 </form>
21 </body>
22 </?php
23 $Username = $_SESSION["Username"];
24 $SubmitQuery = mysqli_query($Conn, "SELECT Username FROM customerdetails WHERE Username = '$Username'");
25 if(mysqli_num_rows($SubmitQuery) == 0){
26     header("Location: Login");
27 } else {
28     while($Row = mysqli_fetch_assoc($SubmitQuery)){
29         $_SESSION["UsernameLogin"] = $Row["Username"];
30         $UsernameLogin = $_SESSION["UsernameLogin"];
31         if(isset($_POST["Redirect"])){
32             mysqli_query($Conn, "UPDATE customerdetails SET Status='Online' WHERE Username='$UsernameLogin'");
33             header("Location: Account");
34         }
35     }
36 }
37 }
38 <?>
39 </html>
```

## CSS For 9:

```

1  @import url('https://fonts.googleapis.com/css2?family=Heebo:wght@400;700;900&display=swap');
2  *
3  font-family: 'Heebo', sans-serif;
4  }
5  body{
6  background: url("../New Account Background.jpg");
7  background-repeat: no-repeat;
8  background-size: cover;
9  position: relative;
10 height: 100%;
11 }
12 h1{
13 font-size: 57.5px;
14 font-weight: 900;
15 transform: translate(-50%, 10%);
16 top: 5%;
17 margin-left: 50%;
18 position: relative;
19 text-align: center;
20 cursor: default;
21 letter-spacing: 5px;
22 color: rgba(255,245,0,1.00);
23 text-shadow: 1px 1px 10px black;
24 }
25 hr{
26 height: 4.75px;
27 width: 700px;
28 margin-top: 25px;
29 border-radius: 50px;
30 background: white;
31 outline: none;
32 border: none;
33 box-shadow: 1px 1px 5px black;
34 }
35 h1 a{
36 text-decoration: none;
37 cursor: default;
38 color: white;
39 letter-spacing: 5px;
40 text-shadow: 1px 1px 10px black;
41 }
42 button{
43 position: fixed;
44 margin-top:35px;
45 margin-left: 43.125%;
46 padding: 20px;
47 border: 5px solid white;
48 border-radius: 25px;
49 cursor: pointer;
50 outline: none;
51 background: none;
52 color: white;
53 font-size: 15px;
54 font-weight: 700;
55 letter-spacing: 2.5px;
56 }
57 p{
58 margin-bottom: 35px;
59 margin-top: 35px;
60 width: 750px;
61 text-align: center;
62 margin-left: 302.5px;
63 letter-spacing: 2px;
64 color: white;
65 font-weight: 400;
66 text-shadow: 1px 1px 10px black;
67 }

```

## 10. Account

Screenshot:

**CHEEKO MOT CENTRE**  
431 Ilford Lane - IG1 2PG

**Welcome to your Account, Ali Hasan**

**REGISTERED VEHICLES:**

REGISTRATION NUMBER	MAKE	MODEL	AC REFRIGERANT	MILEAGE	UPDATE	DELETE
OE08 KSO	AUDI	A4	R134A	188500	<span style="background-color: green; color: white; border-radius: 50%; padding: 5px 10px;"> </span>	<span style="background-color: red; color: white; border-radius: 50%; padding: 5px 10px;"> </span>

**PREVIOUS APPOINTMENTS:**

BOOKING REFERENCE	DATE	TIME	SERVICE	PRICE	PAID
#A01	30-12-2020	11:00AM-13:00PM	FULL SERVICE	£175.00	YES

**YOUR MOT RENEWAL DATE IS:**  
06-11-2021 FOR VEHICLE WITH REGISTRATION NUMBER OE08 KSO  
✓ THIS VEHICLE NOT IS VALID

**UPCOMING APPOINTMENTS:**

BOOKING REFERENCE	DATE	TIME	SERVICE	PRICE	PAID	CHANGE	CANCEL
#A04	29-01-2021	15:00PM-15:30PM	BRAKE FLUID CHANGE	£45.00	NO	<span style="background-color: green; color: white; border-radius: 50%; padding: 5px 10px;"> </span>	<span style="background-color: red; color: white; border-radius: 50%; padding: 5px 10px;"> </span>

**PAYMENT HISTORY:**

PAYMENT REFERENCE	BOOKING REFERENCE	CARDHOLDERS NAME	CARD NUMBER	CARD TYPE	EXPIRY DATE
#P01	#A01	RAO ALI HASAN	***** * 2322	VISA	07/2023

| HOME | SERVICES | CONTACT US |

**CHEEKO MOT CENTRE**

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## Code

```

1 <!DOCTYPE html>
2 <?php include("ConnectLoginSignupToMySQL.php");?>
3 <?php include("AuthenticateLoginSignup.php");?>
4 <?php if(!isset($_SESSION["UsernameLogin"])){>
5     header("Location: Login");
6 }
7 unset($_SESSION["AppointmentDetails"]);
8 ?>
9 <meta lang="en">
10 <head>
11 <meta charset="UTF-8">
12 <title>Your Account - Cheeko MOT Centre</title>
13 <link href="CSS/StyleAccount.css" rel="stylesheet" type="text/css">
14 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
15 </head>
16 <body style="overflow-x: hidden;">
17 <div class="HomeLayout">
18 
19 <?php if(empty($_GET['Updated']) && (( $_GET['Updated'])=="SuccessfullyUpdated")){ ?>
20     <div class="MessageBox">
21         <div class="Message">THE DETAILS WERE UPDATED SUCCESSFULLY</div>
22     </div><?php ?>
23 <?php if(empty($_GET['Inserted']) && (( $_GET['Inserted'])=="SuccessfullyInserted")){ ?>
24     <div class="MessageBox">
25         <div class="Message">THE DETAILS WERE INSERTED SUCCESSFULLY</div>
26     </div><?php ?>
27 <?php if(empty($_GET['Payment']) && (( $_GET['Payment'])=="SuccessfullyPaid")){ ?>
28     <div class="MessageBox">
29         <div class="Message">THE PAYMENT WAS SUCCESSFULLY MADE</div>
30     </div><?php ?>
31 <nav>
32     <ul>
33         <li><a class="HoverFirst" href="BookNewAppointment">BOOK NEW APPOINTMENT</a></li>
34         <li><a class="Hover" href="VehicleForm">REGISTER YOUR VEHICLE</a></li>
35         <li><a class="Hover" href="ChangeAccountDetails">CHANGE ACCOUNT DETAILS</a></li>
36         <li><a class="Logout" href="Logout">LOGOUT</a></li>
37     </ul>
38 </nav>
39 <?php
40 $Date = date("Y-m-d");
41 $UsernameLogin = $_SESSION["UsernameLogin"];
42 $GetNameResult=mysqli_query($Conn,"SELECT FirstName, LastName FROM customerdetails WHERE Username='".$UsernameLogin' OR Email='".$UsernameLogin"');
43 $ResultCheck=mysqli_num_rows($GetNameResult);
44 if ($ResultCheck > 0) {
45     while ($Row=mysqli_fetch_assoc($GetNameResult)) { ?>
46         <div class="WelcomeMessage"><?php echo "Welcome to your Account, <br> ". $Row['FirstName']. " " . $Row['LastName']; ?></div>
47     <?php }
48 } else {
49     ><div class="welcomeMessage"><?php echo "Account Not Found"; ?></div>
50 <?php }
51 >
52 <div class="MOTNotice">
53 <h4 style="letter-spacing: 1.875px; margin-bottom: -22.5px;">YOUR MOT RENEWAL DATE IS:</h4>
54 <?php
55 $UserID = mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username='".$UsernameLogin' OR Email='".$UsernameLogin"');
56 while($Row = mysqli_fetch_assoc($UserID)){
57     $IDForUser = $Row["CustomerID"];
58     $LastMOTDate = mysqli_query($Conn, "SELECT LastMOT, RegistrationNumber FROM vehicledetails WHERE CustomerID = '$IDForUser'");
59     if((mysqli_num_rows($LastMOTDate))>0){
60         while($Row = mysqli_fetch_assoc($LastMOTDate)){
61             //Here, I Split The Last MOT Date String Into 3 Parts To Find The Date For The Next MOT Due Date
62             $LastMOT = $Row["LastMOT"];
63             $RegistrationNumber = $Row["RegistrationNumber"];
64             list($Year, $Month, $Day) = explode("-", $LastMOT);
65             $Year = $Year + 1;
66             $ExpiryDateFormatted = $Day."-".$Month."-".$Year;
67             $ExpiryDate = $Year."-".$Month."-".$Day; ?>
68             <div class="MOT">
69                 <p style="letter-spacing: 1.375px;"><?php echo(""$ExpiryDateFormatted" FOR VEHICLE WITH REGISTRATION NUMBER ""$RegistrationNumber"") ?></p>
70             <?php
71                 if($ExpiryDate < $Date) { ?>
72                     <p style="transform: scale(0.875); margin-top: -32.75px; margin-left: 13.875px; color: red; font-weight: 600;">THIS VEHICLES MOT HAS EXPIRED</p><hr style="padding: 1.1275px 10px; width: 75%; margin: 2.5px 18.25px -5px; border-radius: 50%; background: white; margin-top: 3.25px;">
73                 <?php } else { ?>
74                     <p style="transform: scale(0.875); margin-top: -32.75px; margin-left: 15px; color: #00C880; font-weight: 600; letter-spacing: 1px;">THIS VEHICLES MOT IS VALID</p><hr style="padding: 0.125px 10px; width: 75%; margin: 2.5px 18.25px -5px; border-radius: 50%; background: white;">
75                 <?php } ?>
76             </div>
77         <?php }
78     } ?>
79     </div>
80     <div class="Vehicle">
81         <h3>REGISTERED VEHICLES:</h3>
82         <table>
83             <tr>
84                 <th>REGISTRATION NUMBER</th>
85                 <th>MAKE</th>
86                 <th>MODEL</th>
87                 <th>AC REFRIGERANT</th>
88                 <th>MILEAGE</th>
89                 <th>UPDATE</th>
90                 <th>DELETE</th>
91             </tr>
92         <?php
93             $SubmitUserID=mysqli_query($Conn,"SELECT CustomerID FROM customerdetails WHERE Username='".$UsernameLogin' OR Email='".$UsernameLogin' LIMIT 1");
94             while($Data=mysqli_fetch_assoc($SubmitUserID)){
95                 $ID = $Data["CustomerID"];
96                 $VehicleDetails = mysqli_query($Conn,"SELECT * FROM vehicledetails WHERE CustomerID='".$ID "'");
97                 if((mysqli_num_rows($VehicleDetails))>0) {
98                     while($Data = mysqli_fetch_assoc($VehicleDetails)){ ?>
99                         <tr>
100                             <td><?php echo(strtoupper($Data['RegistrationNumber']))?></td>
101                             <td><?php echo(strtoupper($Data['VehicleMake']))?></td>
102                             <td><?php echo(strtoupper($Data['VehicleModel']))?></td>
103                             <td><?php echo($Data['ACRefrigerant'])?></td>
104                             <td><?php echo($Data['CurrentMileage'])?></td>
105                             <td><a class="Update" href="UpdateVehicleForm?RegNumber=<?php echo($Data['RegistrationNumber'])?>"></a></td>
106                             <td><a style="margin-left: 1.875px;" class="Delete" href="DeleteVehicle.php?RegNumber=<?php echo($Data['RegistrationNumber'])?>"></a></td>
107                         </tr>
108                     <?php
109                 } ?>
110             <?php
111             <tr>
112                 <td><div class="None">---NO VEHICLE REGISTERED---</div></td>
113             </tr>
114         <?php
115     } ?>
116     <?php
117     } ?>
118 } ?>
119 <?php
120 <tr>
121     <td><div class="None">---NO VEHICLE REGISTERED---</div></td>
122 </tr>

```

```

122
123
124
125
126
127
128
129
130
131
132
133
134
135 <div class="Appointment">
136 <h3>PREVIOUS APPOINTMENTS:</h3>
137 <table>
138   <tr>
139     <th>BOOKING REFERENCE</th>
140     <th>DATE</th>
141     <th>TIME</th>
142     <th>SERVICE</th>
143     <th>PRICE</th>
144     <th>PAID</th>
145   </tr>
146 <?php
147 $IDOfUser = mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username='$UsernameLogin' OR Email='$UsernameLogin'");
148 while($Row = mysqli_fetch_assoc($IDOfUser)){
149   $ID = $Row["CustomerID"];
150   $GetPreviousAppointments = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$ID' AND AppointmentDate < '$Date'");
151   $PreviousAppointmentsCount = mysqli_num_rows($GetPreviousAppointments);
152   if($PreviousAppointmentsCount > 0){
153     while($Row = mysqli_fetch_assoc($GetPreviousAppointments)){ ?>
154       <tr>
155         <td style="padding: 9px 4.15px">?><?php echo(strtoupper($Row['AppointmentID']))?></td>
156         <td style="padding: 9px 4.15px"><?php echo(date("d-m-Y", strtotime($Row["AppointmentDate"]))) ?></td>
157       </tr>
158       $AppointmentStartTime = $Row["AppointmentStartTime"];
159       $AppointmentEndTime = $Row["AppointmentEndTime"];
160       if($AppointmentStartTime<"12:00"){
161         $AppointmentStartTime = $AppointmentStartTime."AM";
162       } else {
163         $AppointmentStartTime = $AppointmentStartTime."PM";
164       }
165       if($AppointmentEndTime<"12:00"){
166         $AppointmentEndTime = $AppointmentEndTime."AM";
167       } else {
168         $AppointmentEndTime = $AppointmentEndTime."PM";
169       }
170     <td style="padding: 9px 4.15px"><?php echo($AppointmentStartTime."-", $AppointmentEndTime)?></td>
171   <?php
172     $ServiceID = $Row["ServiceID"];
173     $ServiceName = "SELECT ServiceName, ServicePrice FROM services WHERE ServiceID = '$ServiceID'";
174     $GetServiceName = mysqli_query($Conn, $ServiceName);
175     while($Data = mysqli_fetch_assoc($GetServiceName)){ ?>
176       <td style="padding: 9px 4.15px"><?php echo(strtoupper($Data["ServiceName"]))?></td>
177       <td style="padding: 9px 4.15px"><?php echo(strtoupper($Data['ServicePrice']))?></td>
178     <?php
179     if(($Row["Paid"])=="0"){ ?>
180       <td style="padding: 9px 4.15px">NO</td>
181     } else { ?>
182       <td style="padding: 9px 4.15px">YES</td>
183     } ?>
184   </tr>
185 } else { ?>
186   <tr>
187     <td div="None" style="padding: 9px 4.15px">---NO PREVIOUS APPOINTMENTS---</td>
188     <td style="padding: 9px 4.15px"></td>
189     <td style="padding: 9px 4.15px"></td>
190     <td style="padding: 9px 4.15px"></td>
191     <td style="padding: 9px 4.15px"></td>
192   </tr>
193 <?php } ?>
194 </table>
195 </div>
196 <div class="Appointment">
197 <h3>UPCOMING APPOINTMENTS:</h3>
198 <table style="width: 99%;">
199   <tr>
200     <th>BOOKING REFERENCE</th>
201     <th>DATE</th>
202     <th>TIME</th>
203     <th>SERVICE</th>
204     <th>PRICE</th>
205     <th>PAID</th>
206     <th>CHANGE</th>
207     <th>CANCEL</th>
208   </tr>
209 <?php
210 $CustomerID = mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username='$UsernameLogin' OR Email='$UsernameLogin'");
211 if(mysqli_num_rows($CustomerID)>0){
212   while($Row = mysqli_fetch_assoc($CustomerID)){
213     $ID = $Row["CustomerID"];
214     $GetUpcomingAppointments = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$ID' AND AppointmentDate >= '$Date'");
215     $UpcomingAppointmentsCount = mysqli_num_rows($GetUpcomingAppointments);
216     if($UpcomingAppointmentsCount > 0){
217       while($Row = mysqli_fetch_assoc($GetUpcomingAppointments)){ ?>
218         <tr>
219           <td>?><?php echo(strtoupper($Row['AppointmentID'])) ?></td>
220           <td><?php echo(date("d-m-Y", strtotime($Row["AppointmentDate"]))) ?></td>
221         </tr>
222       <?php
223         $AppointmentID = $Row["AppointmentID"];
224         $AppointmentStartTime = $Row["AppointmentStartTime"];
225         $AppointmentEndTime = $Row["AppointmentEndTime"];
226         if($AppointmentStartTime<"12:00"){
227           $AppointmentStartTime = $AppointmentStartTime."AM";
228         } else {
229           $AppointmentStartTime = $AppointmentStartTime."PM";
230         }
231         if($AppointmentEndTime<"12:00"){
232           $AppointmentEndTime = $AppointmentEndTime."AM";
233         } else {
234           $AppointmentEndTime = $AppointmentEndTime."PM";
235         }
236       <?php
237         <td><?php echo($AppointmentStartTime."-".$AppointmentEndTime)?></td>
238       <?php
239         $ServiceID = $Row["ServiceID"];
240         $ServiceName = "SELECT ServiceName, ServicePrice FROM services WHERE ServiceID = '$ServiceID'";
241         $GetServiceName = mysqli_query($Conn, $ServiceName);
242         while($Data = mysqli_fetch_assoc($GetServiceName)){ ?>
243

```

```

244                                     <td><?php echo(strtoupper($Data["ServiceName"]))?></td>
245                                     <td><?php echo(strtoupper($Data["ServicePrice"]))?></td>
246                                     <?php   }
247                                     if(($Row["Paid"])=="0"){ ?>
248                                     <td>NO</td>
249                                     <?php } else { ?>
250                                     <td>YES</td>
251                                     <?php } ?>
252                                     <td><a style="width: 75%; margin-left: 7.5px;" class="Update" href="ChangeAppointment?AppointmentID=<?php echo $AppointmentID ?>"></a></td>
253                                     <td><a style="width: 75%; margin-left: 7.5px;" class="Delete" href="CancelAppointment?AppointmentID=<?php echo $AppointmentID ?>"></a></td>
254                                     </tr>
255                                     <?php } } else { ?>
256                                     <tr>
257                                         <td><div class="None">---NO UPCOMING APPOINTMENTS---</div></td>
258                                         <td style="padding: 0;"></td>
259                                         <td style="padding: 0;"></td>
260                                         <td style="padding: 0;"></td>
261                                         <td style="padding: 0;"></td>
262                                         <td style="padding: 0;"></td>
263                                         <td style="padding: 0;"></td>
264                                     </tr>
265                                     <?php
266                                     }
267                                     }
268                                     }
269                                     }
270                                     ?>
271                                     </table>
272                                     </div>
273                                     <div class="Appointment">
274                                         <h3>PAYMENT HISTORY:</h3>
275                                         <table style="width: 99%;">
276                                         <?php
277                                         $CustomerID = mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username='$UsernameLogin' OR Email='$UsernameLogin'");
278                                         while($Row = mysqli_fetch_assoc($CustomerID)){?
279                                         $ID = $Row["CustomerID"];
280                                         //I Have Joined The Payments And Appointments Table To Retrieve The Payment Details For All The Appointments Booked By The User
281                                         $GetPayments = mysqli_query($Conn, "SELECT paymentdetails.PaymentID, paymentdetails.AppointmentID, paymentdetails.CardholdersName,
282                                         paymentdetails.CardNumber, paymentdetails.CardType, paymentdetails.CardExpiryDate FROM paymentdetails LEFT JOIN appointmentdetails
283                                         ON appointmentdetails.AppointmentID = paymentdetails.AppointmentID WHERE appointmentdetails.CustomerID = '$ID';");
284                                         if(mysqli_num_rows($GetPayments))>{ ?
285                                         <tr style="padding: 7.5px !important;">
286                                         <th style="width: 17.25%;">PAYMENT REFERENCE</th>
287                                         <th style="width: 17.25%;">BOOKING REFERENCE</th>
288                                         <th style="width: 20%;">CARDHOLDERS NAME</th>
289                                         <th style="width: 16.115%;">CARD NUMBER</th>
290                                         <th style="width: 13.5%;">CARD TYPE</th>
291                                         <th style="width: 11.125%;">EXPIRY DATE</th>
292                                         </tr>
293                                         <?php while($PaymentDetails = mysqli_fetch_assoc($GetPayments)){ ?>
294                                         <tr>
295                                         <td style="padding: 11.25px !important;">#P0<?php echo $PaymentDetails["PaymentID"] ?></td>
296                                         <td style="padding: 11.25px !important;">#A0<?php echo $PaymentDetails["AppointmentID"] ?></td>
297                                         <td style="padding: 11.25px !important;"><?php echo $PaymentDetails["CardholdersName"] ?></td>
298                                         <td style="padding: 3.25px !important;"><?php list($Part1,$Part2,$Part3,$Part4) = explode(" ",$PaymentDetails["CardNumber"]); ?>
299                                         <td style="padding: 3.25px !important;"><?php echo (***** ***** ***** ***** $Part4); ?></td>
300                                         <td style="padding: 11.25px !important;"><?php echo $PaymentDetails["CardType"] ?></td>
301                                         <td style="padding: 11.25px !important;"><?php echo $PaymentDetails["CardExpiryDate"] ?></td>
302                                         </tr>
303                                         <?php } } else { ?>
304                                         <tr style="padding: 7.5px !important;">
305                                         <th style="width: 17.25%;">PAYMENT REFERENCE</th>
306                                         <th style="width: 17.25%;">BOOKING REFERENCE</th>
307                                         <th style="width: 20%;">CARDHOLDERS NAME</th>
308                                         <th style="width: 16.115%;">CARD NUMBER</th>
309                                         <th style="width: 13.5%;">CARD TYPE</th>
310                                         </tr>
311                                         <tr>
312                                         <td style="padding: 7.5px 0px; width: 25% !important;"><div class="None">---NO PAYMENTS MADE---</div></td>
313                                         <td style="padding: 7.5px 0px; width: 0px;"></td>
314                                         <td style="padding: 7.5px 0px; width: 0;"></td>
315                                         <td style="padding: 7.5px 0px; width: 0;"></td>
316                                         <td style="padding: 7.5px 0px; width: 0;"></td>
317                                         </tr>
318                                         <?php
319                                         }
320                                         }
321                                         ?>
322                                         </table>
323                                         </div>
324                                         </body>
325                                         <div class="Footer">
326                                         <?php include("AccountFooter.php") ?>
327                                         </div>
328                                         <script>localStorage.removeItem("AdminPinNumber");</script>
329                                     </html>

```

## CSS For 10:

```

1  @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800&display=swap');
2  @import url('https://fonts.googleapis.com/css2?family=Late+Ital:wght@300;400;500;600;700;800;900;1000;1100;1200;1300;1400;1500;1600;1700;1800;1900;2000;2100;2200;2300;2400;2500;2600;2700;2800;2900;3000;3100;3200;3300;3400;3500;3600;3700;3800;3900;4000;4100;4200;4300;4400;4500;4600;4700;4800;4900;5000;5100;5200;5300;5400;5500;5600;5700;5800;5900;6000;6100;6200;6300;6400;6500;6600;6700;6800;6900;7000;7100;7200;7300;7400;7500;7600;7700;7800;7900;8000;8100;8200;8300;8400;8500;8600;8700;8800;8900;9000;9100;9200;9300;9400;9500;9600;9700;9800;9900;10000;11000;12000;13000;14000;15000;16000;17000;18000;19000;20000;21000;22000;23000;24000;25000;26000;27000;28000;29000;30000;31000;32000;33000;34000;35000;36000;37000;38000;39000;40000;41000;42000;43000;44000;45000;46000;47000;48000;49000;50000;51000;52000;53000;54000;55000;56000;57000;58000;59000;60000;61000;62000;63000;64000;65000;66000;67000;68000;69000;70000;71000;72000;73000;74000;75000;76000;77000;78000;79000;80000;81000;82000;83000;84000;85000;86000;87000;88000;89000;90000;91000;92000;93000;94000;95000;96000;97000;98000;99000;100000;110000;120000;130000;140000;150000;160000;170000;180000;190000;200000;210000;220000;230000;240000;250000;260000;270000;280000;290000;300000;310000;320000;330000;340000;350000;360000;370000;380000;390000;400000;410000;420000;430000;440000;450000;460000;470000;480000;490000;500000;510000;520000;530000;540000;550000;560000;570000;580000;590000;600000;610000;620000;630000;640000;650000;660000;670000;680000;690000;700000;710000;720000;730000;740000;750000;760000;770000;780000;790000;800000;810000;820000;830000;840000;850000;860000;870000;880000;890000;900000;910000;920000;930000;940000;950000;960000;970000;980000;990000;1000000;1100000;1200000;1300000;1400000;1500000;1600000;1700000;1800000;1900000;2000000;2100000;2200000;2300000;2400000;2500000;2600000;2700000;2800000;2900000;3000000;3100000;3200000;3300000;3400000;3500000;3600000;3700000;3800000;3900000;4000000;4100000;4200000;4300000;4400000;4500000;4600000;4700000;4800000;4900000;5000000;5100000;5200000;5300000;5400000;5500000;5600000;5700000;5800000;5900000;6000000;6100000;6200000;6300000;6400000;6500000;6600000;6700000;6800000;6900000;7000000;7100000;7200000;7300000;7400000;7500000;7600000;7700000;7800000;7900000;8000000;8100000;8200000;8300000;8400000;8500000;8600000;8700000;8800000;8900000;9000000;9100000;9200000;9300000;9400000;9500000;9600000;9700000;9800000;9900000;10000000;11000000;12000000;13000000;14000000;15000000;16000000;17000000;18000000;19000000;20000000;21000000;22000000;23000000;24000000;25000000;26000000;27000000;28000000;29000000;30000000;31000000;32000000;33000000;34000000;35000000;36000000;37000000;38000000;39000000;40000000;41000000;42000000;43000000;44000000;45000000;46000000;47000000;48000000;49000000;50000000;51000000;52000000;53000000;54000000;55000000;56000000;57000000;58000000;59000000;60000000;61000000;62000000;63000000;64000000;65000000;66000000;67000000;68000000;69000000;70000000;71000000;72000000;73000000;74000000;75000000;76000000;77000000;78000000;79000000;80000000;81000000;82000000;83000000;84000000;85000000;86000000;87000000;88000000;89000000;90000000;91000000;92000000;93000000;94000000;95000000;96000000;97000000;98000000;99000000;100000000;110000000;120000000;130000000;140000000;150000000;160000000;170000000;180000000;190000000;200000000;210000000;220000000;230000000;240000000;250000000;260000000;270000000;280000000;290000000;300000000;310000000;320000000;330000000;340000000;350000000;360000000;370000000;380000000;390000000;400000000;410000000;420000000;430000000;440000000;450000000;460000000;470000000;480000000;490000000;500000000;510000000;520000000;530000000;540000000;550000000;560000000;570000000;580000000;590000000;600000000;610000000;620000000;630000000;640000000;650000000;660000000;670000000;680000000;690000000;700000000;710000000;720000000;730000000;740000000;750000000;760000000;770000000;780000000;790000000;800000000;810000000;820000000;830000000;840000000;850000000;860000000;870000000;880000000;890000000;900000000;910000000;920000000;930000000;940000000;950000000;960000000;970000000;980000000;990000000;1000000000;1100000000;1200000000;1300000000;1400000000;1500000000;1600000000;1700000000;1800000000;1900000000;2000000000;2100000000;2200000000;2300000000;2400000000;2500000000;2600000000;2700000000;2800000000;2900000000;3000000000;3100000000;3200000000;3300000000;3400000000;3500000000;3600000000;3700000000;3800000000;3900000000;4000000000;4100000000;4200000000;4300000000;4400000000;4500000000;4600000000;4700000000;4800000000;4900000000;5000000000;5100000000;5200000000;5300000000;5400000000;5500000000;5600000000;5700000000;5800000000;5900000000;6000000000;6100000000;6200000000;6300000000;6400000000;6500000000;6600000000;6700000000;6800000000;6900000000;7000000000;7100000000;7200000000;7300000000;7400000000;7500000000;7600000000;7700000000;7800000000;7900000000;8000000000;8100000000;8200000000;8300000000;8400000000;8500000000;8600000000;8700000000;880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```

```

43 .WelcomeMessage{
44   font-family: 'Open Sans', sans-serif;
45   position: relative;
46   width: 903.5px;
47   height: 148.125px;
48   margin: -186.35px 0px 258px;
49   text-align: center;
50   padding: 20px;
51   background: linear-gradient(90deg, #000341 10%, rgba(26,232,38,1.00) 50%, #000341 90%);
52   font-size: 50px;
53   color: white;
54   font-weight: 600;
55   letter-spacing: 2.5px;
56   border-radius: 7.5px;
57 }
58 .Logout{
59   background-color: #F0C8E6;
60   border-radius: 0 0 7.5px 7.5px;
61 }
62 .Logout:hover{
63   background-color: rgba(187,0,0,1.00);
64   transition: ease-in-out 0.5s;
65 }
66 h3{
67   font-family: 'Open Sans', sans-serif;
68   margin-left: 482.5px;
69   margin-top: 30px;
70   font-size: 20.25px;
71   color: #000341;
72   font-weight: 600;
73   letter-spacing: 2.75px;
74 }
75 table{
76   margin-top: 7.5px;
77   margin-left: 481.5px;
78   border-spacing: 0;
79   border-collapse: separate;
80   width: 77.5px;
81 }
82 th, td{
83   font-family: 'Open Sans', sans-serif;
84   padding: 7.5px;
85   text-align: center;
86   font-weight: 600;
87   letter-spacing: 1.25px;
88 }
89 th{
90   border-top: 2px solid #000341;
91 }
92 td{
93   border-bottom: 2px solid #000341;
94 }
95 tr:nth-child(odd){
96   background: white;
97   color: #1268A9;
98   border: 2px solid #000341;
99 }
100 tr:nth-child(even){
101   background: #000341;
102   color: white;
103 }
104 .HoverFirst:hover{
105   background-color: #004479;
106   transition: ease-in-out 0.5s;
107   display: block;
108   border-radius: 7.5px 7.5px 0 0;
109 }
110 table tr td{
111   font-size: 14.25px;
112 }
113 .None{
114   font-weight: 600;
115   color: white;
116   padding: 4.15px;
117 }
118 .Update{
119   display: block;
120   background: #000341;
121   box-shadow: 0.025px 1.125px 2.5px 0.025px black;
122   cursor: pointer;
123   border-radius: 100px;
124   padding: 15px 5px;
125 }
126 .Update:hover{
127   background:#000341;
128 }
129 .Delete{
130   display: block;
131   background: red;
132   box-shadow: 0.075px 1.175px 2.5px 0.075px black;
133   cursor: pointer;
134   border-radius: 100px;
135   padding: 15px 5px;
136 }
137 .Delete:hover{
138   background: rgba(198,0,0,1.00);
139 }
140 .MOTNotice{
141   position: absolute;
142   width: 246.125px;
143   height: auto;
144   background: #000341;
145   margin-top: 40.5px;
146   margin-left: 94.5px;
147   border-radius: 7.5px;
148 }
149 .Vehicle{
150   margin-top: -25px;
151   margin-left: -475px;
152   border-spacing: 20px;
153   width: 100%;
154 }
155 .Appointment{
156   margin-top: 20px;
157   margin-left: -475px;
158   border-spacing: 20px;
159   width: 100%;
160 }
161 .MOT{
162   padding: 17.5px 0.5px;
163 }
164 .MOTNotice p{
165   font-weight: 400;
166   letter-spacing: 0.75px;
167   font-size: 12px;
168   margin-left: 0.125px;
169 }
170 h4{
171   font-weight: 500;
172   letter-spacing: 1.25px;
173   padding: 5px;
174   text-align: center;
175   color: white;
176   font-size: 17.5px;
177 }
178 .MessageBox{
179   margin: -43.125px 5px 23.125px 6.75px;
180   width: 98.985px;
181   background-color: rgba(26,232,38,1.00);
182   height: 75px;
183   position: relative;
184   animation-name: opacity;
185   animation-duration: 1.75s;
186   border-radius: 7.5px;
187 }
188 .Message{
189   font-family: 'Open Sans', sans-serif;
190   margin-top: 22.5px;
191   text-align: center;
192   padding: 25px;
193   font-size: 21.25px;
194   font-weight: 600;
195   letter-spacing: 5px;
196   color: white;
197 }

```

## 11. Change Account Details

Screenshot:



### Change Account Details

Ali

Hasan

alirao2880@gmail.com

Ali\_Hasan1

Current Password

New Password

Confirm New Password

07305758674

Caps Lock

New Password Strength Weak

**UPDATE DETAILS**

Nothing To Change? Return To Your Account

Code:

```
1  <!doctype html>
2  <?php
3  session_start();
4  if(!isset($_SESSION['UsernameLogin'])){
5      header("Location: Login");
6  }
7  include("ConnectLoginSignupToMySQL.php");
8  //This Function Cleans The Users Input
9  function Fix_Input($data){
10      $data=trim($data); //Removes any spaces at the beginning or end of data
11      $data=stripslashes($data); //Removes any quotation marks in the data
12      $data=htmlspecialchars($data); //Converts special characters to HTML values
13      return $data;
14  }
15  $ChangeDetailsErrors = array();
16  $Username = $_SESSION['UsernameLogin'];
17  $CustomerDetails = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username = '$Username' OR Email = '$Username'");
18  $CustomerDetailsArray = mysqli_fetch_array($CustomerDetails);
19  $CurrentEmail = $CustomerDetailsArray["Email"];
20  $PhoneNumber = $CustomerDetailsArray["PhoneNumber"];
21  $CurrentUsername = $CustomerDetailsArray["Username"];
22  $NewUsername = $CustomerDetailsArray["Username"];
23  $Email = $CustomerDetailsArray["Email"];
24  $CurrentPassword = $NewPassword = $ConNewPassword = "";
25  if(isset($_POST["Update"])){
26      if(empty($_POST["Email"])){
27          array_push($ChangeDetailsErrors, "Email Address Is Required");
28          echo "<style>input[name='Email']{border-bottom: 2px solid red !important;}</style>";
29          $Email = Fix_Input($_POST["Email"]);
30      } else {
31          //This In-Built Function Is Used To Validate The Email Address Format
32          if(!filter_var($_POST["Email"], FILTER_VALIDATE_EMAIL)){
33              array_push($ChangeDetailsErrors, "Email Address Format Is Invalid");
34              echo "<style>input[name='Email']{border-bottom: 2px solid red !important;}</style>";
35              $Email = Fix_Input($_POST["Email"]);
36          } else {
37              $Email = Fix_Input($_POST["Email"]);
38              //This SQL Query Checks If An Account With The New Email Already Exists Which Isn't The Email Of The Customer Currently Logged In
39              $CheckIfExists = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Email = '$Email' AND Email <> '$CurrentEmail'");
40              if((mysql_num_rows($CheckIfExists))>0){
41                  $Details = mysqli_fetch_array($CheckIfExists);
42                  array_push($ChangeDetailsErrors, "An Account With This Email Address Already Exists");
43                  echo "<style>input[name='Email']{border-bottom: 2px solid red !important;}</style>";
44              }
45          }
46      if(empty($_POST["Username"])){
47          array_push($ChangeDetailsErrors, "Username Is Required");
48          echo "<style>input[name='Username']{border-bottom: 2px solid red !important;}</style>";
49          $NewUsername = Fix_Input($_POST["Username"]);
50      } else {
51          $NewUsername = Fix_Input($_POST["Username"]);
52          //This SQL Query Checks If An Account With The New Username Already Exists Which Isn't The Username Of The Customer Currently Logged In
53          $CheckIfUsernameExists = mysqli_query($Conn, "SELECT Username FROM customerdetails WHERE Username = '$NewUsername' AND Username <> '$CurrentUsername'");
54          if((mysql_num_rows($CheckIfUsernameExists))>0){
55              array_push($ChangeDetailsErrors, "An Account With This Username Already Exists");
56              echo "<style>input[name='Username']{border-bottom: 2px solid red !important;}</style>";
57          } else {
58              if(((strlen($NewUsername) < 6) || ((strlen($NewUsername) > 15)))){
59                  array_push($ChangeDetailsErrors, "Username Must Be 6 To 15 Characters In Length");
60                  echo "<style>input[name='Username']{border-bottom: 2px solid red !important;}</style>";
61              }
62          }
63      }
64  }
65 }
```

```

66
67     if(empty($_POST["CurrentPassword"])){
68         array_push($ChangeDetailsErrors, "Enter Your Current Password");
69     } else {
70         $CurrentPassword = Fix_Input($_POST["CurrentPassword"]);
71         $CheckIfCurrentPasswordIsCorrect = mysql_query($conn, "SELECT * FROM customerdetails WHERE Username='".$Username' OR Email='".$Username"");
72         while($Row = mysql_fetch_assoc($CheckIfCurrentPasswordIsCorrect)){
73             if(!password_verify($CurrentPassword,$Row["Password"])){
74                 array_push($ChangeDetailsErrors, "Current Password Is Incorrect");
75                 echo "<style>input[name='CurrentPassword']{border-bottom: 2px solid red !important;}</style>";
76             } else {
77                 if($CurrentPassword == $_POST["NewPassword"]){
78                     array_push($ChangeDetailsErrors, "New Password Cannot Be The Same As Your Current Password");
79                     echo "<style>input[name='CurrentPassword'], input[name='NewPassword'], input[name='ConNewPassword'] {border-bottom: 2px solid red . . .
```

```

198 <script>
199 const Length = document.getElementById("Length");
200 const Weak = document.getElementById("WeakPassword");
201 const Average = document.getElementById("AveragePassword");
202 const Strong = document.getElementById("StrongPassword");
203 const WeakMeter = document.getElementById("Weak");
204 const AverageMeter = document.getElementById("Average");
205 const StrongMeter = document.getElementById("Strong");
206 var Message = document.getElementById("display");
207 var MessageDiv = document.getElementsByClassName("Display");
208 var Toggle1 = document.getElementById("toggle1");
209 var Toggle2 = document.getElementById("toggle2");
210 var Toggle3 = document.getElementById("toggle3");
211 var CurrentPassword = document.getElementById("CurrentPassword");
212 var CapsLock = document.getElementById("Caps");
213 var CapsLockOn = document.getElementById("CapsLockOn");
214 var NewPassword = document.getElementById("NewPassword");
215 var ConNewPassword = document.getElementById("ConNewPassword");
216 var PasswordsDontMatch = document.getElementById("PasswordsDontMatch");
217 var PasswordsMatch = document.getElementById("PasswordsMatch");
218 //I Have Created A Password Strength Detector Through JavaScript Event Listeners To Assist The User When Creating A Password
219 NewPassword.addEventListener("keyup",function(){
220     if(NewPassword.value.length != 0){
221         if(NewPassword.value.length < 6 || NewPassword.value.match(/[a-z]/) || ((NewPassword.value.match(/[a-z]/) && NewPassword.value.match(/[A-Z]/))){
222             Message.style.display = "none";
223             PasswordsDontMatch.style.display = "none";
224             PasswordsMatch.style.display = "none";
225             Weak.style.display = "block";
226             WeakMeter.style.background = "#FF4757";
227         }
228         if(NewPassword.value.length >= 6 && NewPassword.value.match(/\^a-zA-Z0-9/g) && NewPassword.value.match(/\b0-9\b/) && !NewPassword.value.match(/\W\b\b/)){
229             Message.style.display = "none";
230             Weak.style.display = "none";
231             PasswordsDontMatch.style.display = "none";
232             PasswordsMatch.style.display = "none";
233             Average.style.display = "block";
234             Strong.style.display = "none";
235             WeakMeter.style.background = "#FF4757";
236             AverageMeter.style.background = "orange";
237             StrongMeter.style.background = "lightgray";
238         } else {
239             Weak.style.display = "block";
240             Average.style.display = "none";
241             AverageMeter.style.background = "lightgray";
242             if(NewPassword.value.length >= 6 && NewPassword.value.match(/\^a-zA-Z\b/g) && NewPassword.value.match(/\b0-9\b/) && NewPassword.value.match(/\W\b\b/)){
243                 Message.style.display = "none";
244                 Weak.style.display = "none";
245                 Average.style.display = "none";
246                 PasswordsDontMatch.style.display = "none";
247                 PasswordsMatch.style.display = "none";
248                 Strong.style.display = "block";
249                 WeakMeter.style.background = "#FF4757";
250                 AverageMeter.style.background = "orange";
251                 StrongMeter.style.background = "#23ADSC";
252             } else {
253                 Weak.style.display = "block";
254                 Average.style.display = "none";
255                 Strong.style.display = "none";
256                 StrongMeter.style.background = "lightgray";
257             }
258         }
259         if(NewPassword.value.length > 15){
260             Message.style.display = "none";
261             Weak.style.display = "none";
262             Average.style.display = "none";
263             Strong.style.display = "none";
264             PasswordsDontMatch.style.display = "none";
265             PasswordsMatch.style.display = "none";
266             Length.style.display = "block";
267             WeakMeter.style.background = "#FF4757";
268             AverageMeter.style.background = "#FF4757";
269             StrongMeter.style.background = "#FF4757";
270         } else {
271             Length.style.display = "none";
272         }
273     } else {
274         Message.style.display = "block";
275         Weak.style.display = "none";
276         Average.style.display = "none";
277         Strong.style.display = "none";
278         Length.style.display = "none";
279         PasswordsDontMatch.style.display = "none";
280         PasswordsMatch.style.display = "none";
281         WeakMeter.style.background = "lightgray";
282         AverageMeter.style.background = "lightgray";
283         StrongMeter.style.background = "lightgray";
284     }
285 }
286 })
287 ConNewPassword.addEventListener("keyup",function(){
288     if(NewPassword.value.length != 0){
289         if(ConNewPassword.value != NewPassword.value){
290             PasswordsDontMatch.style.display = "block";
291             PasswordsMatch.style.display = "none";
292             Message.style.display = "none";
293             Weak.style.display = "none";
294             Average.style.display = "none";
295             Strong.style.display = "none";
296             Length.style.display = "none";
297             WeakMeter.style.background = "#FF4757";
298             AverageMeter.style.background = "#FF4757";
299             StrongMeter.style.background = "#FF4757";
300         } else {
301             PasswordsDontMatch.style.display = "none";
302             PasswordsMatch.style.display = "block";
303             Message.style.display = "none";
304             Weak.style.display = "none";
305             Average.style.display = "none";
306             Strong.style.display = "none";
307             Length.style.display = "none";
308             WeakMeter.style.background = "#23ADSC";
309             AverageMeter.style.background = "#23ADSC";
310             StrongMeter.style.background = "#23ADSC";
311         }
312     } else {
313         PasswordsDontMatch.style.display = "none";
314         PasswordsMatch.style.display = "none";
315     }
316 })
317 CurrentPassword.addEventListener("keyup",function(Event){
318     if(Event.getModifierState("CapsLock")){
319         CapsLock.style.borderColor = "#DB0000";
320         CapsLockOn.style.color = "#DB0000";
321     } else {
322         CapsLock.style.borderColor = "#4C8B17";
323         CapsLockOn.style.color = "#4C8B17";
324     }
325 })

```

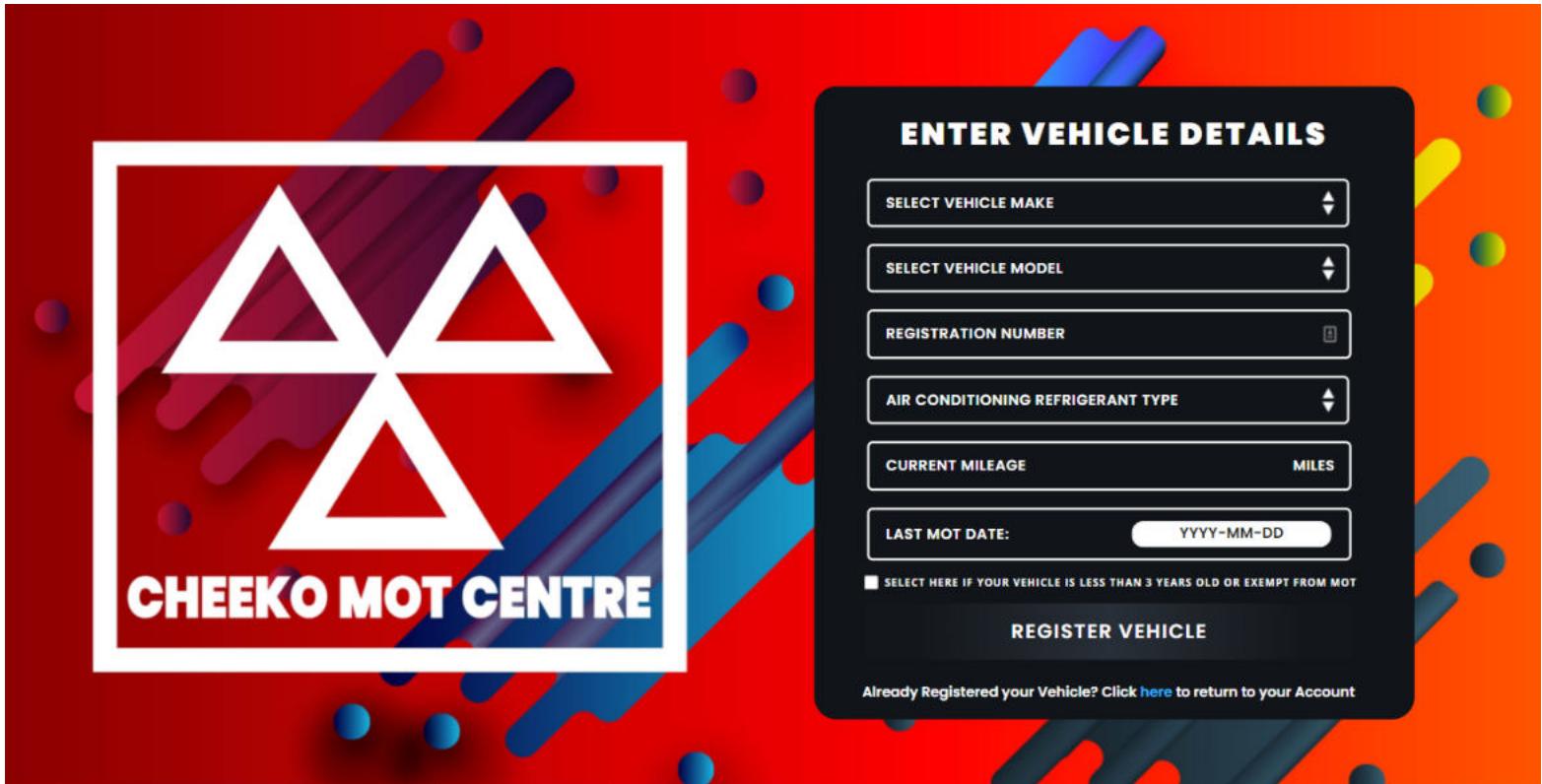
```

326 NewPassword.addEventListener("keyup",function(Event){
327     if(Event.getModifierState("CapsLock")){
328         CapsLock.style.borderColor = "#000000";
329         CapsLockOn.style.color = "#000000";
330     } else {
331         CapsLock.style.borderColor = "#4CBB17";
332         CapsLockOn.style.color = "#4CBB17";
333     }
334 })
335 ConNewPassword.addEventListener("keyup",function(Event){
336     if(Event.getModifierState("CapsLock")){
337         CapsLock.style.borderColor = "#000000";
338         CapsLockOn.style.color = "#000000";
339     } else {
340         CapsLock.style.borderColor = "#4CBB17";
341         CapsLockOn.style.color = "#4CBB17";
342     }
343 })
344 //This Function Has Been Created To Change The Visibility Of The Password From Show To Hide When the Icon is Clicked
345 function ShowHide1(){
346     if(CurrentPassword.type === "password"){
347         CurrentPassword.setAttribute("type","text");
348         Toggle1.classList.add("Hide");
349     } else {
350         CurrentPassword.setAttribute("type","password");
351         Toggle1.classList.remove("Hide");
352     }
353 }
354 function ShowHide2(){
355     if(NewPassword.type === "password"){
356         NewPassword.setAttribute("type","text");
357         Toggle2.classList.add("Hide");
358     } else {
359         NewPassword.setAttribute("type","password");
360         Toggle2.classList.remove("Hide");
361     }
362 }
363 function ShowHide3(){
364     if(ConNewPassword.type === "password"){
365         ConNewPassword.setAttribute("type","text");
366         Toggle3.classList.add("Hide");
367     } else {
368         ConNewPassword.setAttribute("type","password");
369         Toggle3.classList.remove("Hide");
370     }
371 }
372 </script>
373 </html>

```

## 12. Register Vehicle

Screenshot:



## Code:

```
1  <!doctype html>
2  <?php include("ConnectLoginSignupToMySQL.php");?>
3  <?php include("AuthenticateVehicleForm.php");?>
4  <?php if(!isset($_SESSION["UsernameLogin"])){>
5      header("Location: Login");
6  } ?>
7  <html>
8  <head>
9  <meta charset="utf-8">
10 <title>New Vehicle - Cheeko MOT Centre</title>
11 <link href="CSS/StyleAccount.css" rel="stylesheet" type="text/css">
12 </head>
13 <body class="BackgroundForVehicleForm">
14 <div class="Form">
15     <h1>ENTER VEHICLE DETAILS</h1>
16     <form action="VehicleForm" method="post">
17         <?php if (count($FormError) > 0):?>
18             <div class="ErrorBox">
19                 <div class="ErrorMessage">
20                     <!-- Converts Each Element In The Array To A String -->
21                     <?php foreach ($FormError as $VehicleInformationError):?>
22                         <?php echo $VehicleInformationError . "<br>"?>
23                     <?php endforeach?>
24                 </div>
25             </div>
26         <?php endif?>
27         <!-- I Have Added The Event Listener OnChange To Filter Out The Vehicle Model Based On The Selected Vehicle Make -->
28         <select class="ContentOfFormVehicle" onChange="filterModel()" name="Make" id="VehicleMake">
29             <option selected disabled value="">Select Vehicle Make</option>
30             <!-- This Select Box Contains All The Vehicle Makes Sold In The UK -->
31             <option value="Abarth">Abarth</option>
32             <option value="AC">AC</option>
33             <option value="Aixam">Aixam</option>
34             <option value="Alfa Romeo">Alfa Romeo</option>
35             <option value="Alpine">Alpine</option>
36             <option value="Aston Martin">Aston Martin</option>
37             <option value="Audi">Audi</option>
38             <option value="BAC">BAC</option>
39             <option value="Bentley">Bentley</option>
40             <option value="BMW">BMW</option>
41             <option value="Bugatti">Bugatti</option>
42             <option value="Buick">Buick</option>
43             <option value="Cadillac">Cadillac</option>
44             <option value="Cagiva">Cagiva</option>
45             <option value="Chevrolet">Chevrolet</option>
46             <option value="Chrysler">Chrysler</option>
47             <option value="Citroen">Citroen</option>
48             <option value="Corvette">Corvette</option>
49             <option value="Dacia">Dacia</option>
50             <option value="Daewoo">Daewoo</option>
51             <option value="Daihatsu">Daihatsu</option>
52             <option value="Daimler">Daimler</option>
53             <option value="Dodge">Dodge</option>
54             <option value="DS Automobiles">DS Automobiles</option>
55             <option value="Ducati">Ducati</option>
56             <option value="Ferrari">Ferrari</option>
57             <option value="Fiat">Fiat</option>
58             <option value="Ford">Ford</option>
59             <option value="GM&C">GM&C</option>
60             <option value="Harley-Davidson">Harley-Davidson</option>
61             <option value="Holden">Holden</option>
62             <option value="Honda">Honda</option>
63             <option value="Hummer">Hummer</option>
64             <option value="Hyundai">Hyundai</option>
65             <option value="Infiniti">Infiniti</option>
66             <option value="Isuzu">Isuzu</option>
67             <option value="Iveco">Iveco</option>
68             <option value="Jaguar">Jaguar</option>
69             <option value="Jeep">Jeep</option>
70             <option value="Kawasaki">Kawasaki</option>
71             <option value="Kia">Kia</option>
72             <option value="Lamborghini">Lamborghini</option>
73             <option value="Lancia">Lancia</option>
74             <option value="Land Rover">Land Rover</option>
75             <option value="Lexus">Lexus</option>
76             <option value="Lotus">Lotus</option>
77             <option value="Maserati">Maserati</option>
78             <option value="Maybach">Maybach</option>
79             <option value="Mazda">Mazda</option>
80             <option value="McLaren">McLaren</option>
81             <option value="Mercedes-Benz">Mercedes-Benz</option>
82             <option value="MG">MG</option>
83             <option value="Mini">Mini</option>
84             <option value="Mitsubishi">Mitsubishi</option>
85             <option value="Nissan">Nissan</option>
86             <option value="Opel">Opel</option>
87             <option value="Perodua">Perodua</option>
88             <option value="Peugeot">Peugeot</option>
89             <option value="Porsche">Porsche</option>
90             <option value="Proton">Proton</option>
91             <option value="Renault">Renault</option>
92             <option value="Rolls-Royce">Rolls-Royce</option>
93             <option value="Saab">Saab</option>
94             <option value="SEAT">SEAT</option>
95             <option value="Skoda">Skoda</option>
96             <option value="Smart">Smart</option>
97             <option value="SsangYong">SsangYong</option>
98             <option value="Subaru">Subaru</option>
99             <option value="Suzuki">Suzuki</option>
100            <option value="Tesla">Tesla</option>
101            <option value="Toyota">Toyota</option>
102            <option value="Vauxhall">Vauxhall</option>
103            <option value="Volkswagen">Volkswagen</option>
104            <option value="Volvo">Volvo</option>
105            <option value="Yamaha">Yamaha</option>
106        </select>
107        <div id="VehicleModel">
108            <select class="ContentOfFormVehicle" name="NoModel">
109                <option selected disabled value="">Select Vehicle Model</option>
110            </select>
111        </div>
112        <input class="ContentOfForm" type="text" name="RegNumber" placeholder="Registration Number" value="<?php echo $RegNumber ?>">
113        <select class="ContentOfFormVehicle" name="AirConditioningRefrigerant" id="AirConditioningRefrigerant" value="<?php echo $ACRefrigerant ?>">
114            <option selected disabled value="">Air Conditioning Refrigerant Type</option>
115            <option value="R1234YF">R1234YF</option>
116            <option value="R134A">R134A</option>
117        </select>
118        <input class="ContentOfForm" type="text" name="Mileage" placeholder="Current Mileage" value="<?php echo $CurrentMileage ?>"><p class="Unit">MILES</p>
```

```

119
120
121
122
123
124
125
126
127
128
129
130
131
132 /* Here, I Have Used The JavaScript Event Listener OnChange To Filter The Vehicle Model Depending On The Vehicle Make That Is Selected By The User
133 And I Have Added All Vehicles That Are Sold In The UK To Create A Dynamic Select Box Which Changes As The User CHanges The Vehicle Make */
134
135 function filterModel(){
136     var Make = document.getElementById("VehicleMake").value;
137
138     if(Make=="Abarth"){
139         var Array = ['124 Spider','500','500C','595','595C','695','695C','Grande Punto','Punto Evo'];
140
141     } else if(Make=="AC"){
142         var Array = ['Cobra','E10'];
143
144     } else if(Make=="Aixam"){
145         var Array = ['700','Crossline'];
146
147     } else if(Make=="Alfa Romeo"){
148         var Array = ['146','147','155','156','156 Sportwagon','159','159 Sportwagon','164','166','2000','133','4C','8C','Brera','GT','GTV','Giulia','Giulietta','MiTo','Spider','Sprint','Stelvio','SZ'];
149
150     } else if(Make=="Alpine"){
151         var Array = ['A110'];
152
153     } else if(Make=="Aston Martin"){
154         var Array = ['Cygnet','DB11','DB2','DB4','DB5','DB6','DB7','DB9','DBS','Le Mans','One-77','Rapide','Rapide S','V8','Vanquish','Vantage','Vantage S','Virage','Vulcan'];
155
156     } else if(Make=="Audi"){
157         var Array = ['180','A1','A2','A3','A3 Cabriolet','A4','A4 Allroad','A4 Avant','A4 Cabriolet','A5','A5 Cabriolet','A6 Allroad','A6 Avant','A6 Saloon','A8','Coupe','E - Tron','Q2','Q3','Q5','Q7','Q8','Quattro','R8','Rs2','Rs3','Rs4 Avant','Rs4 Cabriolet','Rs5','Rs6','Rs7','RsQ8','S1','S3','S4 Avant','S4 Cabriolet','S5','S6 Avant','S6 Saloon','S7','S8','S8'];
158
159     } else if(Make=="BAC"){
160         var Array = ['Mono'];
161
162     } else if(Make=="Bentley"){
163         var Array = ['Arnage','Bentayga','Brooklands','Continental','Continental Flying Spur','Continental GT','Continental GTC','Continental R','Mulsanne'];
164
165     } else if(Make=="BMW"){
166         var Array = ['1 Series','2 Series','3 Series','4 Series','5 Series','6 Series','7 Series','8 Series','Alpina','i3','i8','M1','M2','M3','M4','M5','M6','M8','R NineT','R1200','R1250','X1','X2','X3','X4','X5','X6','X7','Z1','Z3','Z4','Z8'];
167
168     } else if(Make=="Bugatti"){
169         var Array = ['Chiron','Veyron'];
170
171     } else if(Make=="Buick"){
172         var Array = ['Electra','Riviera','Roadmaster'];
173
174     } else if(Make=="Cadillac"){
175         var Array = ['BLS','CTS','De Ville','Eldorado','Escalade'];
176
177     } else if(Make=="Cagiva"){
178         var Array = ['Brutale','F3'];
179
180     } else if(Make=="Chevrolet"){
181         var Array = ['Aveo','C10','Camaro','Captiva','Corvette','Cruze','Kalois','Lacetti','Matiz','Orlando','Spark','Tracuma','Trax'];
182
183     } else if(Make=="Chrysler"){
184         var Array = ['300C','Crossfire','Delta','Grand Voyager','PT Cruiser','Voyager','Ypsilon'];
185
186     } else if(Make=="Citroen"){
187         var Array = ['Berlingo','C-Crosser','C1','C2','C3','C3 Aircross','C3 Picasso','C3 Pluriel','C4','C4 Cactus','C4 Picasso','C4 Spacetourer','C5','C5 Aircross','C6','C8','Dispatch','DS3','DS3 Cabrio','DS4','DS5','Nemo','Relay','Saxo','Space Tourer','Xantia','Xsara'];
188
189     } else if(Make=="Corvette"){
190         var Array = ['C5','C6','C7','C8','Stringray'];
191
192     } else if(Make=="Dacia"){
193         var Array = ['Duster','Logan','Sandero','Sandero Stepway'];
194
195     } else if(Make=="Daewoo"){
196         var Array = ['Kalois','Lacetti','Lanos','Matiz','Nubira','Tucuma'];
197
198     } else if(Make=="Daihatsu"){
199         var Array = ['Atrai','Charade','Copen','Cuore','Fourtrak','Grand Move','Materia','Sirion','Sportrak','Terios'];
200
201     } else if(Make=="Daimler"){
202         var Array = ['Double Six','Saloon','Sovereign','Super Eight','XJ Series'];
203
204     } else if(Make=="Dodge"){
205         var Array = ['Avenger','Caliber','Challenger','Charger','Dart','Journey','Nitro','RAM','Viper'];
206
207     } else if(Make=="DS Automobiles"){
208         var Array = ['DS 3','DS 3 Cabrio','DS 3 Crossback','DS 4','DS 4 Crossback','DS 5','DS 7 Crossback'];
209
210     } else if(Make=="Ducati"){
211         var Array = ['1098','Multistrada'];
212
213     } else if(Make=="Ferrari"){
214         var Array = ['250','308','328','348','360','365','400','430','456','458','488','512','550','575','599','612','812','California','Enzo','F12 Berlinetta','F355','F430','F50','FF','GT4 Lusso','LaFerrari','Mondial','Portofino','Scuderia Spider'];
215
216     } else if(Make=="Fiat"){
217         var Array = ['124 Spider','126','500','500C','500L','500X','Abarth','Barchetta','Bravo','Coupe','Croma','Doblo','Ducato','Florine','Fullback','Grande Punto','Multipla','Panda','Punto','Punto Evo','Qubo','Scudo','Sedici','Seicento','Stilo','Talento','Tipo'];
218
219     } else if(Make=="Ford"){
220         var Array = ['B-Max','C-Max','Capri','Cougar','Ecosport','Edge','Escort','Explorer','F100','F150','F250','Fiesta','Focus','Focus C-Max','Fusion','Galaxy','Grand C-Max','Ka','Ka+','Kuga','Mondeo','Mustang','Puma','Ranger','S-Max','Sierra','Streetka','Tourneo Connect','Tourneo Courier','Tourneo Custom','Transit','Transit Connect','Transit Courier','Transit Custom'];
221
222     } else if(Make=="GMH"){
223         var Array = ['Sicra','Syclone'];
224
225     } else if(Make=="Harley-Davidson"){
226         var Array = ['FLHRC','FLSTC'];
227
228     } else if(Make=="Holden"){
229         var Array = ['SS'];
230
231     } else if(Make=="Honda"){
232         var Array = ['Accord','Civic','CR-V','CR-X','CR-Z','Elysion','Fit','FR-V','HR-V','Insight','Integra','Jazz','Legend','NSX','Odyssey','S2000','Shuttle','Stepwagon','Stream'];
233
234     } else if(Make=="Hummer"){
235         var Array = ['H1','H2','H3'];
236
237     } else if(Make=="Hyundai"){
238         var Array = ['Accent','Amica','Coupe','Genesis','Getz','I10','I20','I30','I40','I800','IONIQ','IX20','IX35','Kona','Matrix','Santa FE','Terracan','Trajet','Tucson','Veloster'];
239
240     } else if(Make=="Infiniti"){
241         var Array = ['EX','FX','G37','M','Q50','Q60','Q70','QX30','QX50','QX70','QX80'];
242
243     } else if(Make=="Isuzu"){
244         var Array = ['D-Max','Gemini','Rodeo','Trooper'];
245
246     } else if(Make=="Iveco"){
247         var Array = ['Daily'];
248
249     } else if(Make=="Jaguar"){
250         var Array = ['E-Pace','E-Type','F-Pace','F-Type','I-Pace','Mark Li','Sovereign','S-Type','X-Type','XE','XF','XJ','XJS','XK','XKR'];
251
252     } else if(Make=="JEEP"){
253         var Array = ['Cherokee','Commander','Compass','Grand Cherokee','Patriot','Renegade','Wrangler'];
254
255     } else if(Make=="Kawasaki"){
256         var Array = ['GTR','VN','Versys'];
257
258     } else if(Make=="Kia"){
259         var Array = ['Carens','Ceed','Magentis','Niro','Optima','Picanto','Proced','Rio','Sedona','Sorento','Soul','Sportage','Stinger','Stonic','Venga','Xceed'];
260
261     } else if(Make=="Lamborghini"){
262         var Array = ['Aventador','Countach','Diablo','Gallardo','Huracan','Murcielago','Urus'];
263
264     } else if(Make=="Lancia"){
265         var Array = ['Delta','Beta'];
266
267     } else if(Make=="Land Rover"){
268         var Array = ['110','90','Defender 110','Defender 130','Defender 90','Discovery','Discovery 3','Discovery 4','Discovery Sport','Freelander','Freelander 2','Range Rover','Range Rover Evoque','Range Rover Sport','Range Rover Velar','Series I','Series II','Series III'];
269
270 }

```

```

238 )else if(Make=="Lexus"){
239     var Array = ['CT', 'ES', 'GS', 'IS', 'LC 500', 'LFA', 'LS', 'NX', 'RC', 'RX', 'SC', 'UX'];
240 }else if(Make=="Lotus"){
241     var Array = ['Carlton', 'Elan', 'Elise', 'Elise 5', 'Espirit', 'Evora', 'Exige', 'Seven'];
242 }else if(Make=="Haserati"){
243     var Array = ['320E', 'Coupe', 'Ghibli', 'Grancabrio', 'Transport', 'Granturismo', 'Levante', 'Quattroporte', 'Spyder'];
244 }else if(Make=="Maybach"){
245     var Array = ['57', '62'];
246 }else if(Make=="Haza"){
247     var Array = ['2', '3', '323', '51', '6', '626', 'Bongo', 'CX-3', 'CX-30', 'CX-5', 'CX-7', 'HX-5', 'HX-5 RF', 'RX-8'];
248 }else if(Make=="Mclaren"){
249     var Array = ['12C Spider', '540C', '570S', '600LT', '650S', '675LT', '720S', 'GT', 'Senna'];
250 }else if(Make=="Mercedes-Benz"){
251     var Array = ['190', '200', '220', '230', '240', '250', '280', '300', '320', '350', '380', '420', '450', '500', '560', '600', 'A Class', 'AMG', 'AMG GT', 'B Class',
252     'C Class', 'Citan', 'C1', 'CLA Class', 'CLC Class', 'CLK', 'CLS', 'E Class', 'E', 'G Class', 'GL Class', 'GLA Class', 'GLB Class', 'GLC Class', 'GLE Class',
253     'GLS Class', 'M Class', 'R Class', 'S Class', 'SL Class', 'SLC', 'SLK', 'SLS', 'Sprinter', 'V Class', 'Viano', 'Vito', 'X Class'];
254 }else if(Make=="MG"){
255     var Array = ['3', '6', 'GS', 'HS', 'H Type', 'HGA', 'HGB', 'HGF', 'HGT', 'HJ', 'HJ2', 'ZS', 'ZT'];
256 }else if(Make=="Hin"){
257     var Array = ['Clubman', 'Clubvan', 'Convertible', 'Countryman', 'Coupe', 'Hatch', 'Paceman', 'Roadster'];
258 }else if(Make=="Mitsubishi"){
259     var Array = ['ASX', 'Carisma', 'Colt', 'Colt Cabriolet', 'Eclipse Cross', 'FT0', 'Grandis', 'L200', 'Lancer', 'Mirage', 'Outlander', 'Pajero', 'Shogun',
260     'Shogun Pinin', 'Shogun Sport', 'Space Star'];
261 }else if(Make=="Nissan"){
262     var Array = ['200', '300', '350 Z', '370 Z', 'Almera', 'Almera Tino', 'Cube', 'Cubic', 'E-NV200', 'Elgrand', 'ENV200 Evalia', 'Figaro', 'GTR', 'Juke', 'Leaf',
263     'Micra', 'Murano', 'Navara', 'Note', 'NV200', 'NV250', 'NV300', 'NV400', 'Pathfinder', 'Pixo', 'Primera', 'Pulsar', 'Qashqai', 'Qashqai+2',
264     'Serena', 'Skyline', 'Terrano', 'X-Trail'];
265 }else if(Make=="Opel"){
266     var Array = ['Astra', 'Corsa', 'Monza', 'Zafira'];
267 }else if(Make=="Porodua"){
268     var Array = ['Kelta', 'Kenari', 'MYVI', 'Nippa'];
269 }else if(Make=="Peugeot"){
270     var Array = ['1007', '1007', '108', '108', '2008', '205', '206', '206 CC', '206 SW', '207', '207 CC', '207 SW', '208', '3008', '306', '307', '307 CC', '307 SW', '308',
271     '308 CC', '308 SW', '406', '406', '407', '407 SW', '508', '508 SW', '607', '807', 'Bipper Tepee', 'Boxer', 'Expert',
272     'Expert Tepee', 'Ion', 'Partner', 'Partner Tepee', 'RCZ', 'Rifter', 'Traveller'];
273 }else if(Make=="Porsche"){
274     var Array = ['356', '718', '911', '911', '924', '928', '944', '968', 'Boxter', 'Cayenne', 'Cayman', 'Macan', 'Panamera'];
275 }else if(Make=="Proton"){
276     var Array = ['GEN-2', 'Satria', 'Satria Neo', 'Savvy'];
277 }else if(Make=="Renault"){
278     var Array = ['11', '15', '5', '918', 'Captur', 'Clio', 'Espace', 'Grand Espace', 'Grand Modus', 'Grand Scenic', 'Kadjar',
279     'Kangoo', 'Kangoo Maxi', 'Koleos', 'Laguna', 'Master', 'Megane', 'Modus', 'Scenic', 'Trafic', 'Twingo', 'Wind', 'Zoe'];
280 }else if(Make=="Rolls-Royce"){
281     var Array = ['Corniche', 'Cullinan', 'Ghost', 'Phantom', 'Silver Cloud', 'Silver Dawn', 'Silver Seraph', 'Silver Shadow', 'Silver Spirit', 'Wraith'];
282 }else if(Make=="Sabab"){
283     var Array = ['9-3', '9-5', '900', '9000'];
284 }else if(Make=="SEAT"){
285     var Array = ['Alhambra', 'Altea', 'Altea XL', 'Arona', 'Arosa', 'Ateca', 'Cupra R', 'Exeo', 'Ibiza', 'Leon', 'Mii', 'Tarraco', 'Toledo'];
286 }else if(Make=="Skoda"){
287     var Array = ['Citigo', 'Fabia', 'Kamiq', 'Karoq', 'Kodiaq', 'Octavia', 'Rapid', 'Rapid Spaceback', 'Roomster', 'Scala', 'Superb', 'Yeti'];
288 }else if(Make=="Smart"){
289     var Array = ['City-Cabriolet', 'City-Coupe', 'City-Passion', 'ForFour', 'ForTwo', 'Pulse', 'Roadster'];
290 }else if(Make=="SsangYong"){
291     var Array = ['Korando', 'Kyron', 'Musso', 'Rexton', 'Rodius', 'Tivoli', 'Tourismo'];
292 }else if(Make=="Subaru"){
293     var Array = ['BRZ', 'Forester', 'Impreza', 'Justy', 'Legacy', 'Levorg', 'Outback', 'Sambar', 'Tribeca', 'Vivio', 'WRX', 'XV'];
294 }else if(Make=="Suzuki"){
295     var Array = ['Alto', 'Belano', 'Celerio', 'GSR', 'GSX', 'Grand Vitaral', 'Ignis', 'Jimny', 'Kizashi', 'Liana', 'SV', 'SX4', 'Splash', 'Swift', 'Vitara', 'Wagon R'];
296 }else if(Make=="Tesla"){
297     var Array = ['Model 3', 'Model S', 'Model X', 'Roadster'];
298 }else if(Make=="Toyota"){
299     var Array = ['Alphard', 'Auris', 'Avensis', 'Aygo', 'C-HR', 'Camry', 'Celica', 'Corolla Verso', 'Estima', 'GT86', 'HiLux', 'IQ', 'Land Cruiser',
300     'Land Cruiser Amazon', 'MR2', 'Noah', 'Previa', 'Prius', 'Prius+', 'Proace', 'ProaceVerso', 'RAV4', 'Starlet', 'Urban Cruiser', 'Vellfire',
301     'Verso', 'Verso S', 'Voxy', 'Yaris', 'Yaris Verso'];
302 }else if(Make=="Vauxhall"){
303     var Array = ['Adam', 'Agila', 'Ampera', 'Antara', '924', 'Astra', 'Astra GTC', 'Astravan', 'Calibra', 'Cascada', 'Combo', 'Corsa', 'Crossland-X',
304     'Frontier', 'GTC', 'Grandland X', 'Insignia', 'Meriva', 'Mokka', 'Monterey', 'Novano', 'Nova', 'Omega', 'Signum', 'Tigra', 'Vectra',
305     'Velox', 'Viva', 'Vivaro', 'Zafira', 'Zafira', 'Zafira Tourer'];
306 }else if(Make=="Volkswagen"){
307     var Array = ['Amarok', 'Arteon', 'Beetle', 'Bora', 'Caddy', 'Caddy Camper', 'Caddy Life', 'Caddy Maxi', 'Caddy Maxi Life', 'California',
308     'Campervan', 'Caravelle', 'CC', 'Corrado', 'EOS', 'Fox', 'Golf', 'Golf Plus', 'Golf SV', 'Jetta', 'Lupo', 'Passat', 'Phaeton', 'Polo', 'Scirocco',
309     'T-Cross', 'T-Roc', 'Tiguan', 'Tiguan Allspace', 'Touareg', 'Touran', 'Transporter', 'Transporter Shuttic', 'Transporter Sportline', 'Up!'];
310 }else if(Make=="Volvo"){
311     var Array = ['850', '940', '960', 'C30', 'C70', 'S40', 'S60', 'S70', 'S80', 'S90', 'V40', 'V40 CC', 'V40 Cross Country', 'V50', 'V60', 'V60 Cross Country', 'V70',
312     'V70 Cross Country', 'V90', 'V90 Cross Country'];
313 }else if(Make=="Yamaha"){
314     var Array = ['MT', 'Y1', 'YZF'];
315 }else {
316     var Array = ['Select Vehicle Model'];
317 }
318 var Model = "";
319 for(i=0;i<Array.length;i++){
320     Model=Model+<option>"+Array[i]+</option>";
321 }
322 Model=<select class="ContentOfFormVehicle" name="Model"><option selected disabled value='>Select Vehicle Model</option>"+Model+</select>";
323 document.getElementById("VchilcModel").innerHTML= Model;
324 }
325 </script>
326 </body>
327 </html>

```

### Authenticate Vehicle Registration:

```

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} ?>

```

## CSS For 12:

```

222 .BackgroundForVehicleForm{
223     background: url("../Background For Forms.jpg");
224     background-repeat: no-repeat;
225     background-size: 1000px;
226     background-position: cover;
227     overflow: hidden;
228 }
229 .Form{
230     margin: 50px;
231     padding: 10px 70px;
232     width: 490.5px;
233     height: 50px;
234     transform: translate(-3.5%, -57.75%);
235     top: 50%;
236     left: 50%;
237     background: #111418;
238     border-radius: 70px;
239     position: fixed;
240     animation-name: Slide;
241     animation-duration: 1.5s;
242 }
243 @keyframes Slide{
244     from{top: 500px}
245     to{top: 50%}
246 }
247 h1{
248     text-align: center;
249     font-family: 'Poppins', sans-serif;
250     margin: 12.5px 0 10px;
251     color: white;
252     font-weight: 900;
253     letter-spacing: 2.5px;
254     font-size: 27.5px;
255 }
256 .ErrorBox{
257     margin-left: 25.5px;
258     width: 86.75%;
259     height: auto;
260     background-color: #F6848B;
261     border-radius: 7.5px;
262     opacity: 0.95;
263     border: 2px solid darkred;
264 }
265 .ErrorMessage{
266     padding: 5px 15px;
267     text-align:left;
268     color: rgba(73,0,1,0.6);
269     margin: 2.5px 1.25px;
270     font-size: 0.25px;
271     letter-spacing: 0.25px;
272     font-weight: 600;
273 }
274 .ContentOfForm{
275     color: white;
276     background: #111418;
277     border:2px solid white;
278     outline: none;
279     position: relative;
280     width: 80.45%;
281     padding: 10px 15px;
282     font-size: 13px;
283     margin: 7.5px 26.5px;
284     border-radius: 5px;
285     text-transform: uppercase;
286     letter-spacing: .5px;
287 }
288 .ContentOfFormVehicle{
289     color: white;
290     background: #111418;
291     border:2px solid white;
292     outline: none;
293     position: relative;
294     width: 87.5px;
295     padding: 10px 15px;
296     font-size: 13px;
297     margin: 7.5px 26.5px;
298     border-radius: 5px;
299     cursor: pointer;
300     background-image: url("../Up-Down-Arrow.png");
301     background-repeat: no-repeat;
302     background-size: 20px 20px;
303     background-position: 395px center;
304     text-transform: uppercase;
305     letter-spacing: .5px;
306 }
307 .Date{
308     color: white;
309     background: #111418;
310     border:2px solid white;
311     outline: none;
312     position: relative;
313     width: 80.5px;
314     padding: 10px 15px;
315     font-size: 13px;
316     margin: 7.5px 26.5px;
317     border-radius: 5px;
318     font-weight: 600;
319     text-transform: uppercase;
320     letter-spacing: .5px;
321 }

```

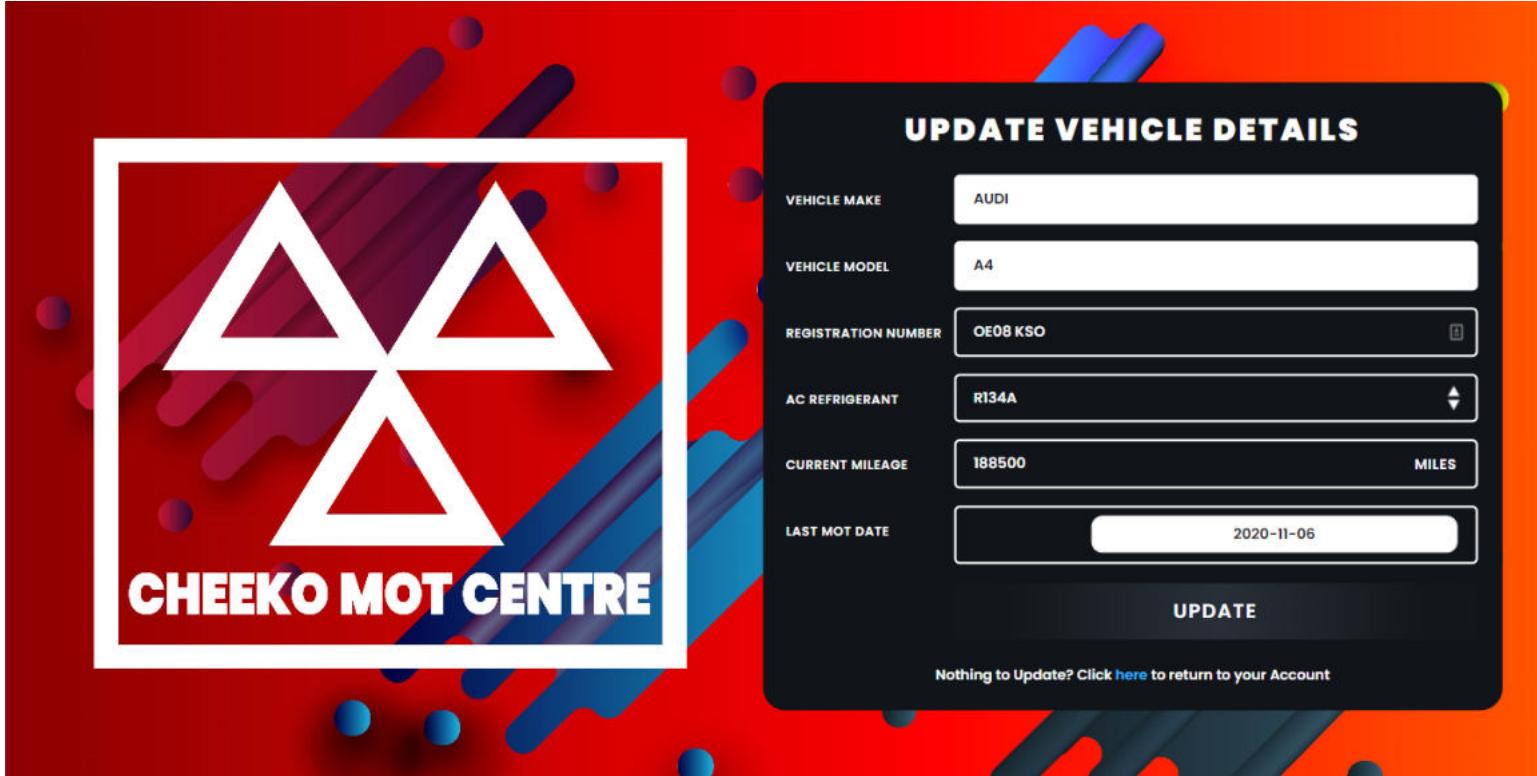
```

322 .Date input{
323   background-color: white;
324   margin-top: 0;
325   margin-left: 105px;
326   color: #1A1A1A;
327   outline:none;
328   border: 1.5px solid white;
329   text-align: center;
330   border-radius: 10px;
331   cursor: pointer;
332 }
333 .Date input::placeholder{
334   color: #1A1A1A;
335 }
336 .Date input::ms-input-placeholder{
337   color: #1A1A1A;
338 }
339 .:placeholder{
340   color: white;
341   font-weight: 600;
342 }
343 .Select{
344   -moz-appearance:none;
345   -webkit-appearance:none;
346   font-weight: 600;
347 }
348 .Button{
349   width:88.125px;
350   margin: 17.5px 25px 15px;
351   height: 50px;
352   background: linear-gradient(90deg, #13171B 10%, #252F38 50%, #13171B 90%);
353   color: white;
354   border: none;
355   outline: none;
356   cursor: pointer;
357   font-size: 17.5px;
358   font-weight: 600;
359   border-radius: 8px;
360   letter-spacing: 1.25px;
361 }
362 }
363 p{
364   font-size: 12.5px;
365   text-align: center;
366   font-weight: 600;
367   color: white;
368   margin-left: -10px;
369   padding: 5px;
370 }
371 p a{
372   color: #f0e68c;
373 }
374 .Unit{
375   position: absolute;
376   margin-top: -43.5px;
377   margin-left: 400px;
378   z-index: 1;
379   letter-spacing: 0.5px;
380 }
381 .SelectBox{
382   display: block;
383   position: relative;
384   margin-left: 35px;
385   padding: 3px;
386   margin-top: 75px;
387   margin-bottom: 10px;
388 }
389 input[type="text"]{
390   font-weight: 600;
391 }
392 option{
393   font-weight: 600;
394 }
395 input[type="checkbox"]{
396   cursor: pointer;
397   position: absolute;
398   opacity: 1;
399   margin-left: -3.75px;
400   margin-top: 5px;
401 }
402 .labelForExemptVehicles{
403   font-family: 'Open Sans', sans-serif;
404   font-size: 8.75px;
405   margin-left: 42.5px;
406   margin-top: 104.5px;
407   font-weight: 700;
408   color: white;
409   letter-spacing: 1px;
410 }

```

## 13. Change Vehicle Details

Screenshot:



Code:

```

1  <!DOCTYPE html>
2  <?php
3  session_start();
4  include("ConnectLoginSignupToMySQL.php");
5  include("AuthenticateLoginSignup.php");
6  error_reporting(8);
7  if(isset($_SESSION['UsernameLogin'])){
8      header("Location: Login");
9  } else {
10      $VehicleNumber = $_GET['RegNumber'];
11      if(empty($VehicleNumber)){
12          header("Location: Account");
13      } else {
14          $Username = $_SESSION['UsernameLogin'];
15          $CustomerID = mysqli_fetch_array(mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username = '$Username' OR Email = '$Username'"));
16          $Customer = $CustomerID['CustomerID'];
17          /* As The Registration Number Of The Vehicle Is In The URL, This SQL Query Is Used To Check If The Customer Is Attempting To Access A Vehicle That Isn't
18          Registered Under Their Account Or If There Is Any Record For A Vehicle With The Inputted Registration Number In The Vehicle Details Table */
19          $ExistingVehicle = mysqli_query($Conn, "SELECT * FROM vehicledetails WHERE CustomerID = '$Customer' AND RegistrationNumber = '$VehicleNumber'");
20          if(mysqli_num_rows($ExistingVehicle) == 0){
21              header("Location: Account");
22          } else {
23              $RegNumber=$_GET['RegNumber'];
24          }
25      }
26  } ?>
27  <html lang="en">
28  <head>
29  <meta charset="UTF-8">
30  <title>Update Vehicle Details - Cheeko MOT Centre</title>
31  </head>
32  <link rel="stylesheet" href="CSS/StyleUpdateForms.css" type="text/css">
33  <body background="Background For Forms.jpg" style="background-repeat: no-repeat;background-size: cover;">
34  <?php
35  //This SQL Query Is Used To Get The Details For The Selected Vehicle
36  $GetDetails = mysqli_fetch_array(mysqli_query($Conn, "SELECT * FROM vehicledetails WHERE RegistrationNumber = '$RegNumber'"));
37  $RegistrationNumber = $GetDetails["RegistrationNumber"]; $ACRefrigerant = ""; $Mileage = $GetDetails["CurrentMileage"]; $MOTDate = $GetDetails["LastMOT"];
38  $Errors=array();
39  if(isset($_POST['Update'])) {
40      $RegistrationNumber=strtoupper(Fix_Input($_POST['RegNumber']));
41      //Here, The Format Of The New Registration Number Is Validated To Check If It Is Correct
42      if(!preg_match('/[A-Za-z]{2}[0-9]{2}[A-Za-z]{3}/', $_POST['RegNumber'])) {
43          array_push($Errors, "Vehicle Registration Number Is Invalid");
44          echo "<style>input[name='RegNumber'][border: 2px solid red !important;]</style>";
45      } else {
46          $RegistrationNumber=strtoupper(Fix_Input($_POST['RegNumber']));
47          //This SQL Query Is Used To Check If A Vehicle With The New Inputted Registration Number Is Already Registered To An Account In The Database
48          $CheckRegistrationNumber = mysqli_query($Conn, "SELECT RegistrationNumber FROM vehicledetails WHERE RegistrationNumber = '$RegistrationNumber' AND RegistrationNumber <> '$RegNumber'");
49          if(mysqli_num_rows($CheckRegistrationNumber)>0){
50              array_push($Errors, "The Vehicle Registration Number Is Already Registered");
51              echo "<style>input[name='RegNumber'][border: 2px solid red !important;]</style>";
52          }
53      }
54  }
55  $ACRefrigerant=Fix_Input($_POST['ACRefrigerant']);
56  $MileageResult=mysqli_query($Conn, "SELECT CurrentMileage FROM vehicledetails WHERE RegistrationNumber='$RegNumber'");
57  foreach($MileageResult as $Data){
58      if(is_numeric($_POST['Mileage']) || empty($_POST['Mileage'])){
59          $Mileage=Fix_Input($_POST['Mileage']);
60          array_push($Errors, "Updated Mileage Is Invalid");
61          echo "<style>input[name='Mileage'][border: 2px solid red !important;]</style>";
62      } else {
63          $Mileage=Fix_Input($_POST['Mileage']);
64          if ((($Mileage<0) || ($Mileage>999999)) {
65              array_push($Errors, "Updated Mileage Is Invalid");
66              echo "<style>input[name='Mileage'][border: 2px solid red !important;]</style>";
67          } else [
68              if($Data['CurrentMileage']>$Mileage){
69                  array_push($Errors, "Updated Mileage Is Less Than Current Mileage");
70                  echo "<style>input[name='Mileage'][border: 2px solid red !important;]</style>";
71              }
72          ]
73      }
74  }
75  if($_POST['LastMOTDate']<GetDetails['LastMOT']) || ($_.POST['LastMOTDate']>(date("Y-m-d"))){
76      $MOTDate = Fix_Input($_POST['LastMOTDate']);
77      array_push($Errors, "Please Input A Valid Date");
78      echo "<style>input[name='LastMOTDate'][border: 2px solid red !important;]</style>";
79      echo "<style>input[name='LastMOTDate'][border: 2px solid red !important;]</style>";
80  } else {
81      $MOTDate = Fix_Input($_POST['LastMOTDate']);
82  }
83  if(count($Errors)==0){
84      //This SQL Query Is Used To Update The Details In The Database Table For The Vehicle If No The Errors Array Is Empty
85      mysqli_query($Conn, "UPDATE vehicledetails SET RegistrationNumber='$RegistrationNumber', ACRefrigerant='$ACRefrigerant', CurrentMileage='$Mileage', LastMOT='$MOTDate' WHERE RegistrationNumber='$RegNumber'");
86      header("Location: Account?Updated=SuccessfullyUpdated");
87  }
88 }
89 while($Row = mysqli_fetch_assoc(mysqli_query($Conn, "SELECT * FROM vehicledetails WHERE RegistrationNumber='$RegNumber'"))){ ?>
90 <div class="UpdateForm">
91 <form method="POST" action="UpdateVehicleForm?RegNumber=<?php echo $Row['RegistrationNumber'] ?>">
92     <h1>UPDATE VEHICLE DETAILS</h1>
93     <?php if (count($Errors)>0):?>
94         <div class="ErrorBox">
95             <div class="ErrorMessage">
96                 <?php foreach ($Errors as $VehicleInformationError):?>
97                     <?php echo $VehicleInformationError . "<br>"?>
98                 <?php endforeach?>
99             </div>
100         </div>
101     <?php endif ?>
102     <label for="VehicleMake">Vehicle Make</label><input class="FormContentReadOnly" type="text" name="VehicleMake" value="<?php echo $Row['VehicleMake'] ?>" readonly>
103     <label for="VehicleModel">Vehicle Model</label><input class="FormContentReadOnly" type="text" name="VehicleModel" value="<?php echo $Row['VehicleModel'] ?>" readonly>
104     <label for="RegNumber">Registration Number</label><input class="FormContent" type="text" name="RegNumber" value="<?php echo $RegistrationNumber ?>">
105     <label for="ACRefrigerant">AC Refrigerant</label>
106     <select class="FormContentSelect" name="ACRefrigerant">
107         <option selected value="<?php echo $Row['ACRefrigerant'] ?>"><?php echo $Row['ACRefrigerant'] ?></option>
108         <?php if($Row['ACRefrigerant'] == "R1234YF") :?>
109             <option value="R134A">R134A</option>
110         <?php else :?>
111             <option value="R1234YF">R1234YF</option>
112         <?php ?>
113     </select>
114     <label for="Mileage">Current Mileage</label><input class="FormContent" type="text" name="Mileage" value="<?php echo $Mileage ?>"><p class="Unit">MILES</p>
115     <label for="DatePurchased">Last MOT Date</label>
116     <div class="Date">
117         <input class="FormContent" onfocus="(this.type='date')" onBlur="(this.type='text')" min="<?php echo $Row['LastMOT'] ?>" max="<?php echo date("Y-m-d") ?>" type="text" value="<?php echo $Row['LastMOT'] ?>" name="LastMOTDate">
118     </div>
119 
```

## CSS For 13:

```
1 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@600&display=swap');
2 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300&display=swap');
3 @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@900&display=swap');
4 *
5   text-decoration: none;
6   font-family: 'Poppins', sans-serif;
7   overflow: hidden;
8 }
9 .BackgroundOfForm{
10   background: url("Background For Forms.jpg");
11   background-repeat: no-repeat;
12   background-size: 100%;
13   background-size: cover;
14 }
15 .UpdateForm{
16   margin: 50px;
17   padding: 10px 20px;
18   width: 617.5px;
19   height: auto;
20   transform: translate(-8.875%,-58.325%);
21   top: 50%;
22   left: 50%;
23   background: #111418;
24   border-radius: 20px;
25   position: fixed;
26   animation-name: Slide;
27   animation-duration: 1.5s;
28 }
29 @keyframes Slide{
30   from{top: 5000px}
31   to{top: 50%}
32 }
33 .ErrorBox{
34   margin-left: 149.25px;
35   width: 75.5px;
36   height: auto;
37   background-color: #F68480;
38   border-radius: 7.5px;
39   opacity: 65%;
40   border: 2px solid darkred;
41 }
42 .ErrorMessage{
43   padding: 5px 17.5px;
44   text-align:left;
45   color: rgba(73,0,0,1.00);
46   margin: 2.5px 10px;
47   font-size: 9.25px;
48   letter-spacing: 0.25px;
49   font-weight: 600;
50 }
51 h1{
52   text-align: center;
53   font-family: 'Poppins', sans-serif;
54   margin: 12.5px 0 10px;
55   color: white;
56   font-weight: 900;
57   letter-spacing: 2.5px;
58   font-size: 27.5px;
59 }
60 .FormContent{
61   color: white;
62   background:#111418;
63   border:2px solid white;
64   outline: none;
65   width: 70%;
66   padding: 10px 15px;
67   font-size: 13px;
68   margin: 7.5px 25px 7.5px 150px;
69   border-radius: 5px;
70   position: relative;
71   text-transform: uppercase;
72   font-weight: 600;
73 }
74 .FormContentReadOnly{
75   font-weight: 600;
76   color: #111418;
77   background:white;
78   border:2px solid white;
79   outline: none;
80   width: 70%;
81   padding: 10px 15px;
82   font-size: 13px;
83   margin: 7.5px 25px 7.5px 150px;
84   border-radius: 5px;
85   position: relative;
86   text-transform: uppercase;
87 }
88 select{
89   -moz-appearance:none;
90   -webkit-appearance:none;
91 }
92 .FormContentSelect{
93   font-weight: 600;
94   color: white;
95   background:#111418;
96   border:2px solid white;
97   outline: none;
98   width: 75.5%;
99   padding: 10px 15px;
100  font-size: 13px;
101  margin: 7.5px 25px 7.5px 150px;
102  border-radius: 5px;
103  position: relative;
104  cursor: pointer;
105  background-image: url("../Up-Down-Arrow.png");
106  background-repeat: no-repeat;
107  background-size: 25px 25px;
108  background-position: 430px center;
109 }
110 ::placeholder{
111   color: white;
112 }
113 label{
114   font-size: 11.25px;
115   color: white;
116   font-weight: 600;
117   margin-top: 22.5px;
118   position: absolute;
119   text-transform: uppercase;
120   letter-spacing: .5px;
121   margin-right: 10px;
122 }
123 .UpdateButton{
124   width:466.25px;
125   margin-top: 10px;
126   margin-left: 149.25px;
127   margin-bottom: 10px;
128   height: 50px;
129   background: linear-gradient(90deg, #13171B 10%, #292F38 50%, #13171B 90%);
130   color: white;
131   border: none;
132   outline: none;
133   cursor: pointer;
134   font-size: 17.5px;
135   font-weight: 600;
136   border-radius: 5px;
137   letter-spacing: 1.25px;
138 }
139 }
140 option{
141   font-weight: 600;
142 }
143 p{
144   font-size: 12.5px;
145   text-align: center;
146   font-weight: 600;
147   color: white;
148 }
149 p a{
150   color: rgba(55,183,255,1.00);
151 }
152 .Unit{
153   position: absolute;
154   margin-top: -37.125px;
155   margin-left: 559.725px;
156   z-index: 1;
157   letter-spacing: 0.5px;
158 }
159 .Date{
160   color: white;
161   background:#111418;
162   border:2px solid white;
163   outline: none;
164   width: 70%;
165   padding: 5px 15px;
166   font-size: 13px;
167   margin: 7.5px 25px 7.5px 150px;
168   border-radius: 5px;
169   position: relative;
170   text-transform: uppercase;
171   font-weight: 600;
172 }
173 .Date input{
174   background-color: white;
175   margin: 2.5px 0 2.5px 105px;
176   color: #1A1A1A;
177   outline:none;
178   border: 1.5px solid white;
179   text-align: center;
180   border-radius: 10px;
181   cursor: pointer;
182   padding: 5px 10px;
183 }
184 .Date input::placeholder{
185   color: #1A1A1A;
186 }
187 }
```

## 14. Delete Vehicle

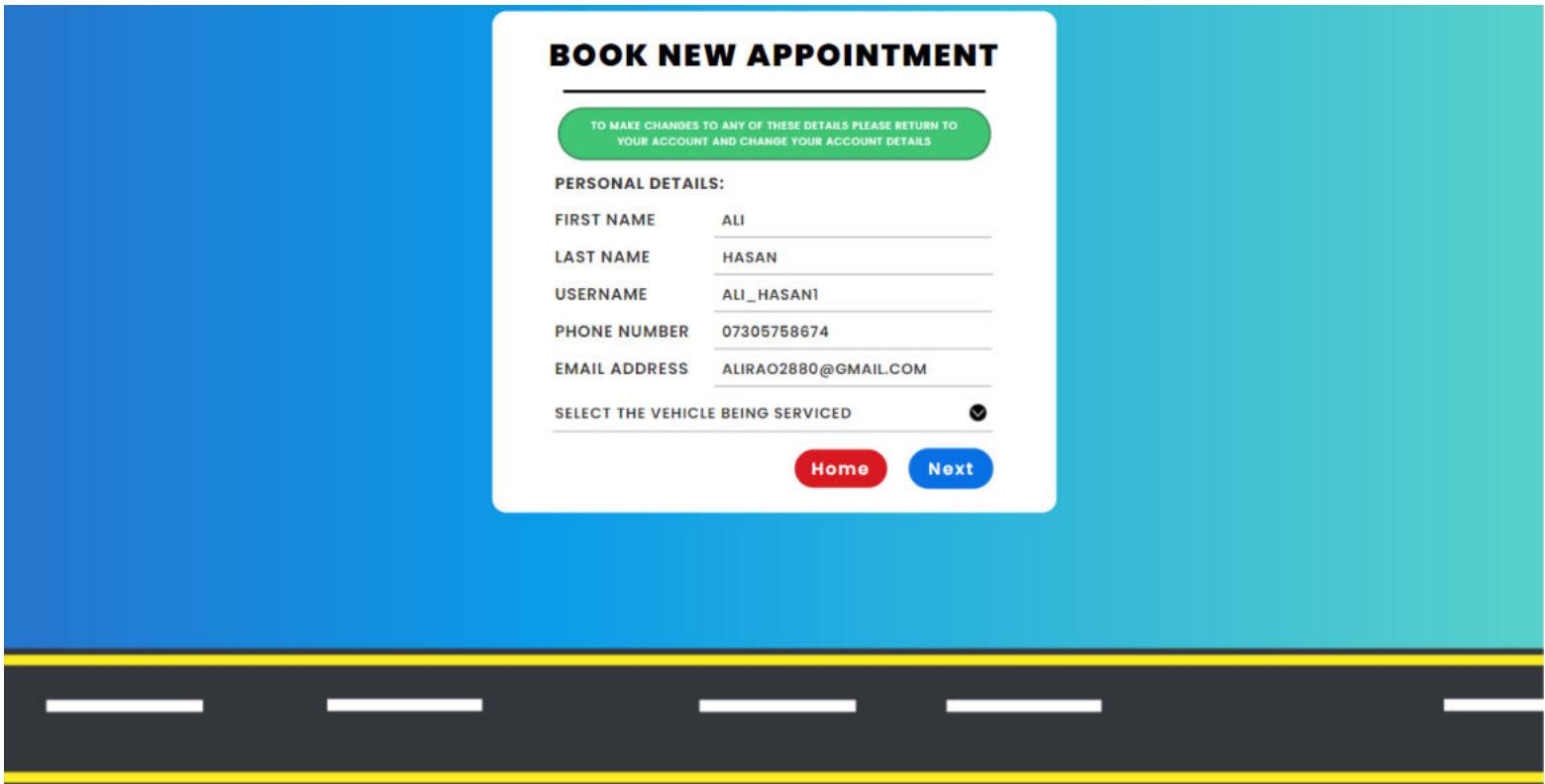
Code:

```
1 <?php
2 include("ConnectLoginSignupToMySQL.php");
3 $RegistrationNumber=$_GET['RegNumber'];
4 mysqli_query($Conn, "DELETE FROM vehicledetails WHERE RegistrationNumber='".$RegistrationNumber."");
5 header("Location: Account?Updated=SuccessfullyUpdated");
6 ?>
```

## 15. Book Appointment

Screenshot:

Part 1 – Select Vehicle –



Part 2 – Select Service –

## BOOK NEW APPOINTMENT

TO MAKE CHANGES TO THESE DETAILS OF YOUR VEHICLE PLEASE RETURN TO YOUR ACCOUNT AND UPDATE THE VEHICLE DETAILS

VEHICLE DETAILS:

REGISTRATION NUMBER	OE08 KSO
VEHICLE MAKE	AUDI
VEHICLE MODEL	A4
CURRENT MILEAGE	188500
AC REFRIGERANT	R134A
LAST MOT	2020-11-06

SELECT THE SERVICE TO BE PERFORMED

[Previous](#) [Next](#)

Don't Want To Book An Appointment? Click [Here](#) To Return To Your Account

Part 3 – Select Appointment Date –



# CHEEKO MOT CENTRE

FEBRUARY 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 <a href="#">BOOK</a>	2 <a href="#">BOOK</a>	3 <a href="#">BOOK</a>	4 <a href="#">BOOK</a>	5 <a href="#">BOOK</a>	6 <a href="#">BOOK</a>
7 <a href="#">N/A</a>	8 <a href="#">BOOK</a>	9 <a href="#">BOOK</a>	10 <a href="#">BOOK</a>	11 <a href="#">BOOK</a>	12 <a href="#">BOOK</a>	13 <a href="#">BOOK</a>
14 <a href="#">N/A</a>	15 <a href="#">BOOK</a>	16 <a href="#">BOOK</a>	17 <a href="#">BOOK</a>	18 <a href="#">BOOK</a>	19 <a href="#">BOOK</a>	20 <a href="#">BOOK</a>
21 <a href="#">N/A</a>	22 <a href="#">BOOK</a>	23 <a href="#">BOOK</a>	24 <a href="#">BOOK</a>	25 <a href="#">BOOK</a>	26 <a href="#">BOOK</a>	27 <a href="#">BOOK</a>
28 <a href="#">N/A</a>						

Don't Want To Book An Appointment? Click [Here](#) To Return To Your Account

Part 4 – Select Appointment Time –



## Appointment Times For Date: 2021-01-30

09:00AM-11:00AM

11:00AM-13:00PM

13:00PM-15:00PM

15:00PM-17:00PM

17:00PM-19:00PM

[Previous](#)

Don't Want To Book An Appointment? Click [Here](#) To Return To Your Account

Part 5 – Summary –

## BOOK NEW APPOINTMENT

### APPOINTMENT DETAILS:

REGISTRATION NUMBER

SERVICE TYPE

TOTAL PRICE

APPOINTMENT DATE

APPOINTMENT TIME

PAY ONLINE (OPTIONAL)  [Previous](#) [Confirm](#)

Don't Want To Book An Appointment? Click [Here](#) To Return To Your Account

Part 6 – Payment (If Selected) –

## BOOK NEW APPOINTMENT

PAYMENT DETAILS:

CARDHOLDERS NAME

SEARCH ADDRESS  SEARCH ADDRESS HERE

BILLING ADDRESS  ADDRESS LINE 1

ADDRESS LINE 2

POSTAL CODE

CARD NUMBER

SELECT YOUR CARD TYPE

EXPIRY DATE  MM /  YYYY  CVV  

[Previous](#)

[Confirm](#)

Don't Want To Book An Appointment? Click [Here](#) To Return To Your Account

Part 7 – Appointment Confirmation –



### Preparations for your Appointment:

- Due to the current precautionary measures in place because of the Coronavirus, the vehicles owner should arrive unaccompanied at the time of their appointment. If you have any Coronavirus symptoms in the 14 days prior to your appointment, we suggest you to rearrange the appointment for a later date either online or by phone for the safety of yourselves and others.
- Arrive on time to prevent any delays in the remaining appointments on the day. We recommend that you leave 10-15 minutes earlier when coming for your appointment to take into consideration obstacles that may occur such as traffic or road diversions/closures.
- If you have booked an appointment for an MOT, you must bring your driving license on the day.
- If you haven't paid for your appointment online, you must come prepared to pay at the time of your appointment.
- Although optional, we would recommend bringing the vehicle logbook so that our mechanics gain a better understanding of your vehicle
- If you wish to change your appointment date, time, service or pay online, you can do so by returning to your account.

 [View Invoice](#)

 [Download Invoice](#)

## Code:

### Part 1 – Select Vehicle –

```
1  <!doctype html><?php
2  include("ConnectLoginSignupToMySQL.php");
3  include("AuthenticateLoginSignup.php");
4  if(!isset($_SESSION['UsernameLogin'])){
5      header("Location: Account");
6  }
7  $Date = date("Y-m-d");
8  $UsernameLogin = $_SESSION['UsernameLogin'];
9  $SubmitAccountDetailsQuery = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username ='$UsernameLogin' OR Email ='$UsernameLogin'");
10 while($Value = mysqli_fetch_assoc($SubmitAccountDetailsQuery)){
11     $CustomerID = $Value['CustomerID'];
12     //The Customers Appointment Details Are Checked To See If They Already Have An Upcoming Appointment To Prevent Them From Booking Multiple Appointments At Once
13     $GetUpcomingAppointments = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$CustomerID' AND AppointmentDate >= '$Date'");
14     $GetVehicleCount = mysqli_query($Conn, "SELECT * FROM vehicledetails WHERE CustomerID ='$CustomerID'");
15     if(mysqli_num_rows($GetVehicleCount)==0){
16         $AlertMessage = "Please Register A Vehicle To Your Account Before Booking An Appointment.";
17         echo("<script type='text/javascript'>alert('$AlertMessage')</script>");
18         echo("<script>window.location='Account'</script>");
19     }
20     if(mysqli_num_rows($GetUpcomingAppointments)>0){
21         $AlertMessage = "You Already Have An Upcoming Appointment. Only One Appointment Can Be Booked At A Time.";
22         echo("<script type='text/javascript'>alert('$AlertMessage')</script>");
23         echo("<script>window.location='Account'</script>");
24     }
25 }
26 $AppointmentFormErrors = array();
27 if(isset($_POST['Next'])){
28     if(empty($_POST['RegistrationNumber'])){
29         array_push($AppointmentFormErrors, "Please Select The Vehicle Being Serviced");
30         echo "<style>select{border-bottom: 2px solid red !important;}</style>";
31     }
32     if(count($AppointmentFormErrors)==0){
33         foreach($_POST as $Key => $Values){
34             /* The Session AppointmentDetails Is Created To Store All The Details For The Appointment As The Customer Completes The Multi-Step Form Like A
35             Dictionary Of Key And Value Pairs Where Each Value Can Be Found By Its Associated Key */
36             $_SESSION["AppointmentDetails"][$Key] = $Values;
37         }
38         $Key = array_keys($_SESSION["AppointmentDetails"]);
39         if(in_array("Next", $Key)){
40             unset($_SESSION["AppointmentDetails"]["Next"]);
41         }
42     }
43     header("Location: BookNewAppointment2");
44 }
45 <html>
46 <head>
47 <meta charset="utf-8">
48 <title>Book New Appointment - Cheeko MOT Centre</title>
49 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
50 </head>
51 <body class="HomeLayout">
52 <div class="AppointmentForm">
53     <center><h1>BOOK NEW APPOINTMENT</h1></center><center><hr></center>
54     <div class="PersonalInput">
55         <form action="BookNewAppointment" method="post" autocomplete="off">
56             <?php if(count($AppointmentFormErrors)==0){?>
57                 <div class="UserMessage">
58                     <div class="Message">
59                         To Make Changes To Any Of These Details Please Return To Your Account And Change Your Account Details
60                     </div>
61                 </div><?php } ?>
62                 <?php if (count($AppointmentFormErrors)>0){?>
63                     <div class="ErrorBox">
64                         <div class="ErrorMessage">
65                             <?php foreach ($AppointmentFormErrors as $ErrorMessage):?>
66                             <?php echo $ErrorMessage . "<br>"?>
67                         <?php endforeach ?>
68                     </div>
69                 </div>
70             <php endif ?>
71             <label style="font-weight: 700;">PERSONAL DETAILS:</label><br>
72             <?php
73                 $UsernameLogin = $_SESSION['UsernameLogin'];
74                 //This SQL Query Is Used To Get The Details For The Customer Logged In
75                 $GetCustomerDetails = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username ='$UsernameLogin' OR Email ='$UsernameLogin'");
76                 while($Data = mysqli_fetch_assoc($GetCustomerDetails)){ ?>
77                     <div class="PersonalInput" style="margin-top: 5px;">
78                         <label>FIRST NAME</label><input style="margin-left: 40.75px;" type="text" placeholder="<?php echo $Data["FirstName"] ?>" readonly="true"><br>
79                     <div class="PersonalInput"><label>LAST NAME</label><input style="margin-left: 46.125px;" type="text" placeholder="<?php echo $Data["LastName"] ?>" readonly="true"><br>
80                     </div>
81                     <div class="PersonalInput">
82                         <label>USERNAME</label><input style="margin-left: 48px;" type="text" placeholder="<?php echo $Data["Username"] ?>" readonly="true"><br>
83                     </div>
84                     <div class="PersonalInput">
85                         <label>PHONE NUMBER</label><input style="margin-left: 10.75px;" type="text" placeholder="<?php echo $Data["PhoneNumber"] ?>" readonly="true"><br>
86                     </div>
87                     <div class="PersonalInput">
88                         <label>EMAIL ADDRESS</label><input style="margin-left: 11.5px;" type="text" placeholder="<?php echo $Data["Email"] ?>" readonly="true"><br>
89                     </div>
90                     <div class="PersonalInput" style="margin-bottom: 20px;">
91                         <select name="RegistrationNumber" value=<?php echo $_SESSION["AppointmentDetails"]["RegistrationNumber"] ?>>>
92                             <option selected disabled>SELECT THE VEHICLE BEING SERVICED</option>
93                         <?php
94                             $GetCustomerID = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username = '$UsernameLogin' OR Email ='$UsernameLogin'");
95                             while($Row = mysqli_fetch_assoc($GetCustomerID)){
96                                 $CustomerID = $Row["CustomerID"];
97                                 //This SQL Query Is Used To Get The Vehicle Details For All The Vehicles Registered Under Customer Logged In
98                                 $GetRegistrationNumber = mysqli_query($Conn, "SELECT * FROM vehicledetails WHERE CustomerID = '$CustomerID'");
99                                 while($Data = mysqli_fetch_assoc($GetRegistrationNumber)){ ?>
100                                     <option value=<?php echo ($Data["RegistrationNumber"])?>><?php echo $Data["RegistrationNumber"] ?></option>
101                                 <?php } ?>
102                             </div>
103                         </select>
104                     </div>
105                     <input type="button" class="Previous" style="margin-left: 222.5px; margin-right: 15px;" href="Account" value="Home">Home</a>
106                     <input class="Next" style="margin-left: 8; margin-bottom: 7.5px;" type="submit" value="Next" name="Next">
107                 </form>
108             </div>
109             <div class="Car">
110                 
111             </div>
112             <div class="Car2">
113                 
114             </div>
115         </div>
116     </div>
117 </html>
```

## Part 2 – Select Service –

```
1 <!doctype html>
2 <?php
3 include("ConnectLoginSignupToMySQL.php");
4 session_start();
5 if(!isset($_SESSION["AppointmentDetails"])[["RegistrationNumber"])){
6     header("Location: BookNewAppointment");
7 } else {
8     $Date = date("Y-m-d");
9     $UsernameLogin = $_SESSION["UsernameLogin"];
10    $SubmitAccountDetailsQuery = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username = '$UsernameLogin' OR Email = '$UsernameLogin'");
11    while($Value = mysqli_fetch_assoc($SubmitAccountDetailsQuery)){
12        $CustomerID = $Value['CustomerID'];
13        $GetUpcomingAppointments = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$CustomerID' AND AppointmentDate >= '$Date'");
14        if(mysqli_num_rows($GetUpcomingAppointments) > 0){
15            $AlertMessage = "You Already Have An Upcoming Appointment. Only One Appointment Can Be Booked At A Time.";
16            echo("<script type='text/javascript'>alert('$AlertMessage')</script>");
17            echo("<script>window.location='Account'</script>");
18        }
19    }
20 }
21 $AppointmentFormErrors = array();
22 if(isset($_POST["Next"])){
23     if(empty($_POST["Service"])){
24         array_push($AppointmentFormErrors, "Please Select The Service Being Performed");
25         echo "<style>select{border-bottom: 2px solid red !important;}</style>";
26     }
27     if(count($AppointmentFormErrors) == 0){
28         foreach($_POST as $Key => $Values){
29             $_SESSION["AppointmentDetails"][$Key] = $Values;
30         }
31         $Key = array_keys($_SESSION["AppointmentDetails"]);
32         if(in_array("Next", $Key)){
33             unset($_SESSION["AppointmentDetails"]["Next"]);
34         }
35         header("Location: AppointmentDateSchedule");
36     }
37 } ?>
38 <html>
39 <head>
40 <meta charset="utf-8">
41 <title>Book New Appointment - Cheeko MOT Centre</title>
42 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
43 </head>
44 <body class="HomeLayout">
45 <div class="AppointmentForm">
46     <center><h1>BOOK NEW APPOINTMENT</h1></center><center><hr></center>
47     <div class="VehicleInput">
48         <form action="BookNewAppointment2" method="post" autocomplete="off" style="margin-left: 25px;">
49             <?php
50                 $RegNumber = $_SESSION["AppointmentDetails"]["RegistrationNumber"];
51                 $GetVehicleDetails = mysqli_query($Conn, "SELECT * FROM vehicledetails WHERE RegistrationNumber = '$RegNumber'");
52                 while($Data = mysqli_fetch_assoc($GetVehicleDetails)){
53                     <?php if (count($AppointmentFormErrors) == 0) {
54                         <div class="UserMessage" style="margin-left: 22.5px;">
55                             <div class="Message">
56                                 To Make Changes To These Details Of Your Vehicle Please Return To Your Account And Update The Vehicle Details
57                             </div>
58                         </div><?php } ?>
59                     <?php if (count($AppointmentFormErrors) > 0) :?>
60                         <div class="ErrorBox" style="margin-left: 21.75px;">
61                             <div class="ErrorMessage">
62                                 <?php foreach ($AppointmentFormErrors as $ErrorMessage) :?>
63                                     <?php echo $ErrorMessage . "<br>"?>
64                                 <?php endforeach ?>
65                         </div>
66                     </div><?php endif ?>
67                     <label style="font-weight: 700;">VEHICLE DETAILS:</label><br>
68                     <div class="VehicleInput" style="margin-top: 5px;">
69                         <label>REGISTRATION NUMBER</label><input style="margin-left: 7.5px;" type="text" placeholder="<?php echo $Data["RegistrationNumber"]?>" readonly="true"><br>
70                     </div>
71                     <div class="VehicleInput">
72                         <label>VEHICLE MAKE</label><input style="margin-left: 77.5px;" type="text" placeholder="<?php echo $Data["VehicleMake"]?>" readonly="true"><br>
73                     </div>
74                     <div class="VehicleInput">
75                         <label>VEHICLE MODEL</label><input style="margin-left: 69.25px;" type="text" placeholder="<?php echo $Data["VehicleModel"]?>" readonly="true"><br>
76                     </div>
77                     <div class="VehicleInput">
78                         <label>CURRENT MILEAGE</label><input style="margin-left: 47.5px;" type="text" placeholder="<?php echo $Data["CurrentMileage"]?>" readonly="true"><br>
79                     </div>
80                     <div class="VehicleInput">
81                         <label>AC REFRIGERANT</label><input style="margin-left: 58px;" type="text" placeholder="<?php echo $Data["ACRefrigerant"]?>" readonly="true"><br>
82                     </div>
83                     <div class="VehicleInput">
84                         <label>LAST MOT</label><input style="margin-left: 112.0125px;" type="text" placeholder="<?php echo $Data["LastMOT"]?>" readonly="true"><br>
85                     </div>
86                     <div class="VehicleInput">
87                         <select name="Service">
88                             <option selected disabled>SELECT THE SERVICE TO BE PERFORMED</option><?php
89                             //This SQL Query Is Used To Get The Details For All The Services Provided At The MOT Centre
90                             $GetServices = mysqli_query($Conn, "SELECT * FROM services");
91                             while($Row = mysqli_fetch_assoc($GetServices)){
92                                 <option value="<?php echo $Row["ServiceID"]?>"><?php echo $Row["ServiceName"]?></option><?php } ?>
93                         </select>
94                     </div>
95                     <a href="BookNewAppointment"><input type="button" class="Previous" style="margin-left: 227.5px; margin-top: 17.5px; margin-right: 15px;" value="Previous"></a>
96                     <input class="Next" style="margin-left: 0; margin-bottom: 2.5px;" type="submit" value="Next" name="Next"><?php } ?>
97                 </div>
98             </form>
99         </div>
100     <p class="Redirect">Don't Want To Book An Appointment? Click <a href="Account">Here</a> To Return To Your Account</p>
101 </body>
102 <div class="Car">
103     
104 </div>
105 <div class="Car2">
106     
107 </div>
108 </html>
```

### Part 3 – Select Appointment Date –

```
1 <!doctype html><?php
2 include("ConnectLoginSignupToMySQL.php");
3 session_start();
4 if(!isset($_SESSION["AppointmentDetails"]["RegistrationNumber"])) || (!isset($_SESSION["AppointmentDetails"]["Service"])) {
5     header("Location: BookNewAppointment2");
6 } else {
7     $Date = date("Y-m-d");
8     $UsernameLogin = $_SESSION['UsernameLogin'];
9     $SubmitAccountDetailsQuery = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username ='$UsernameLogin' OR Email=' $UsernameLogin' ");
10    while($Value=mysqli_fetch_assoc($SubmitAccountDetailsQuery)){
11        $CustomerID = $Value['CustomerID'];
12        $GetUpcomingAppointments = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$CustomerID' AND AppointmentDate >= '$Date' ");
13        if(mysqli_num_rows($GetUpcomingAppointments)>0){
14            $AlertMessage = "You Already Have An Upcoming Appointment. Only One Appointment Can Be Booked At A Time.";
15            echo("<script type='text/javascript'>alert('$AlertMessage')</script>");
16            echo("<script>window.location='Account'</script>");
17        }
18    }
19 }
20 /* This PHP Function Generates A Booking Calendar To Allow The User To Select The Appointment Date And Prevents Them From Booking On Sunday Or A Date That Has
21 Already Passed */
22 function CreateCalendar($Month,$Year){
23     //Connection Is Established With The Database
24     $Conn = new mysqli('localhost','root','','cheekomotcentre',3306) or die("Connection Failed: " . $Conn->error);
25     $Bookings = array();
26     $GetAppointmentBookings = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE MONTH(AppointmentDate) = '$Month' AND YEAR(AppointmentDate) = '$Year' ");
27     while($Row = mysqli_fetch_assoc($GetAppointmentBookings)){
28         $Bookings[] = $Row['AppointmentDate'];
29     }
30     $DaysOfWeek = array("Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday");
31     // mktime format (Hour,Minute,Second,Month,Day,Year)//
32     $FirstDayOfMonth = mktime(0,0,0,$Month,1,$Year);
33     //"" IS USED TO GET THE NUMBER OF DAYS IN A GIVEN MONTH//
34     $NumberOfDays = date("t", $FirstDayOfMonth);
35     $Date = getdate($FirstDayOfMonth);
36     $MonthName = $Date["month"];
37     $DayOfTheWeek = $Date["wday"];
38     $CurrentDate = date("Y-m-d");
39     $PreviousMonth = date("m",mktime(0,0,0,$Month-1,$Year));
40     $PreviousYear = date("Y",mktime(0,0,0,$Month-1,$Year));
41     $NextMonth = date("m",mktime(0,0,0,$Month+1,$Year));
42     $NextYear = date("Y",mktime(0,0,0,$Month+1,1,$Year));
43     $Calendar = "<br><center><h2 style='margin-left: 25px; letter-spacing: 7.5px; text-transform: uppercase; font-size: 27.5px; color: white; margin-bottom: -15px;
44 margin-top: -22.5px;'>$MonthName $Year</h2><br>";
45     $Calendar .= "<a class='Date' href='?Month=$PreviousMonth&Year=$PreviousYear'>Last Month</a>";
46     $Calendar .= "<a class='Date' href='?Month=$Month&Year=".date("m").">Current Month</a>";
47     // Allows User To Book An Appointment Date In The Next Month
48     $Calendar .= "<a class='Date' href='?Month=$NextMonth&Year=$NextYear'>Next Month</a></center>";
49     $Calendar .= "<table>";
50     $Calendar .= "<tr>";
51     foreach ($DaysOfWeek as $Day){
52         $Calendar .= "<th>$Day</th>";
53     }
54     $Calendar .= "</tr><tr>";
55     $CurrentDay = 1;
56     if($DayOfTheWeek > 0){
57         for($X = 0; $X < $DayOfTheWeek; $X++){
58             $Calendar .= "<td class='EmptyCells'></td>";
59         }
60     }
61     $Month = str_pad($Month,2,"0",STR_PAD_LEFT);
62     while($CurrentDay <= $NumberOfDays){
63         if($DayOfTheWeek == 7){
64             $DayOfTheWeek == 0;
65             $Calendar .= "</tr><tr>";
66         }
67         $TodayDayNumber = str_pad($CurrentDay,2,"0",STR_PAD_LEFT);
68         $Date = "$Year-$Month-$TodayDayNumber";
69         $DayName = date("l",strtotime($Date));
70         $Today = $Date == date("Y-m-d") ? 'Today:' '';
71         if($DayName == "Sunday" && $Date == date("Y-m-d")){
72             $Calendar .= "<td class='Today' style='padding:22.875px 0;'><h3>$CurrentDay</h3></td>";
73         } elseif($Date == date("Y-m-d")){
74             $Calendar .= "<td class='Today' style='padding:23.175px 0;'><h3>$CurrentDay</h3></td>";
75         } elseif($Date < date("Y-m-d")){
76             $Calendar .= "<td class='Today'><h3>$CurrentDay</h3><button class='NA'>N/A</button></td>";
77         } elseif($DayName == "Sunday" && $Date <> date("Y-m-d")){
78             $Calendar .= "<td class='Today'><h3>$CurrentDay</h3><button class='NA'>N/A</button></td>";
79         } else {
80             $Calendar .= "<td style='height:61.5px;' class='Today'><h3 style='margin-bottom:4.5px;'>$CurrentDay</h3><a href='AppointmentTimeSchedule?
81 Date=$Date'><span>Book</span><span>800K</span></a></td>";
82         }
83         $CurrentDay++;
84         $DayOfTheWeek++;
85     }
86     if($DayOfTheWeek>28){
87         for($X = $DayOfTheWeek; $X < 35; $X++){
88             $Calendar .= "<td class='EmptyCells'></td>";
89         }
90     }
91     return $Calendar;
92 }
93 $Date = getdate();
94 if(isset($_GET["Month"]) && isset($_GET["Year"])){
95     $Month = $_GET["Month"];
96     $Year = $_GET["Year"];
97 } else {
98     $Month = $Date["mon"];
99     $Year = $Date["year"];
100 }
101 <?>
102 <html>
103 <head>
104 <meta charset="utf-8">
105 <title>Book New Appointment - Cheeko MOT Centre</title>
106 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
107 </head>
108 <body style="background: #1368A9;">
109     <img class='Logo' style='margin-left:250px; height: 110px; width:60%;' src='Cheeko MOT Centre Logo (Without Address).jpg' alt='Cheeko MOT Centre Logo'>
110     <a href='BookNewAppointment2' class='PreviousArrow'>#8249</a>
111     <?php echo CreateCalendar($Month,$Year); ?>
112     <p class="Redirect" style="position: absolute; top: 63px; margin-left: 417.5px; font-size: 12.5px;">Don't Want To Book An Appointment? Click
113     <a href="Account">Here</a> To Return To Your Account</p>
114 </body>
115 </html>
```

## Part 4 – Select Appointment Time –

```
1  <!doctype html><?php
2  include("Connect>LoginSignupToMySQL.php");
3  error_reporting(0);
4  session_start();
5  if(!isset($_SESSION["AppointmentDetails"]["RegistrationNumber"])) || (!isset($_SESSION["AppointmentDetails"]["Service"])))
6  header("Location: BookNewAppointment2");
7  } else {
8      $Date = $_GET["Date"];
9      $UsernameLogin = $_SESSION['UsernameLogin'];
10     $SubmitAccountDetailsQuery = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE Username = '$UsernameLogin' OR Email = '$UsernameLogin'");
11     while($Value = mysqli_fetch_assoc($SubmitAccountDetailsQuery)){
12         $CustomerID = $Value['CustomerID'];
13         $GetUpcomingAppointments = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$CustomerID' AND AppointmentDate >= '$Date'");
14         if(mysqli_num_rows($GetUpcomingAppointments) > 0){
15             $AlertMessage = "You Already Have An Upcoming Appointment. Only One Appointment Can Be Booked At A Time.";
16             echo("<script type='text/javascript'>alert('$AlertMessage')</script>");
17             echo("<script>window.location='Account'</script>");
18         }
19     }
20 }
21 /* This PHP Function Generates A Page Which Shows All The Time Slots Available On Any Given Day For The Chosen Service And If The Time Slot Is Already Booked By
22 Another Customer, That Time Slot Is Represented As A Red Unclickable Button To Prevent Users From Booking An Appointment At The Same Time Slot */
23 function AppointmentTime($AppointmentDuration, $GapTime, $StartTime, $EndTime, $Date){
24     $Conn = new mysqli('localhost', 'root', '', 'cheekomotcentre', 3306) or die("Connection Failed: " . $Conn->error);
25     $StartTime = new DateTime($StartTime);
26     $EndTime = new DateTime($EndTime);
27     $AppointmentIntervals = new DateInterval("PT" . $AppointmentDuration . "M");
28     $AppointmentGapTime = new DateInterval("PT" . $GapTime . "M");
29     $AppointmentSlots = array();
30     for($StartTime = $StartTime; $StartTime < $EndTime; $StartTime->add($AppointmentIntervals)->add($AppointmentGapTime)){
31         $End = clone $StartTime;
32         $End->add($AppointmentIntervals);
33         if($End > $EndTime){
34             break;
35         }
36         $AppointmentStartTimeFormatted = $StartTime->format("H:iA");
37         $AppointmentEndTimeFormatted = $End->format("H:iA");
38         $AppointmentStartTime = $StartTime->format("H:i");
39         $AppointmentEndTime = $End->format("H:i");
40         //This SQL Statement Is Used To Find The Appointment Times That That Have Already Been Booked On The Selected Date
41         $GetTimeTaken = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE (AppointmentStartTime BETWEEN '$AppointmentStartTime' AND '$AppointmentEndTime'
42         AND AppointmentStartTime <> '$AppointmentEndTime') AND AppointmentDate = '$Date' LIMIT 1");
43         if(mysqli_num_rows($GetTimeTaken) > 0){
44             while($Row=mysqli_fetch_assoc($GetTimeTaken)){
45                 //An Unclickable Button Which Represents The Appointment Times That Have Already Been Booked Is Inserted In The Array
46                 $AppointmentSlots[] = "<div class='SelectSlots'><button onClick='return false' class='AppointmentTimeBooked'>
47                 $AppointmentStartTimeFormatted-$AppointmentEndTimeFormatted</button></div>";
48             }
49         } else {
50             $AppointmentSlots[] .= $AppointmentStartTimeFormatted . "-" . $AppointmentEndTimeFormatted;
51         }
52     }
53     return $AppointmentSlots;
54 }
55 $AppointmentFormErrors = array();
56 if(isset($_POST['AppointmentTime'])){
57     list($Year, $Month, $Day) = explode("-", $Date);
58     if( $Year < date("Y") || $Month > 12 || $Month < 1 || $Day > 31 || $Day < 1 || $Date < date("Y-m-d") || (date('N', strtotime($Date)) == 7) ){
59         array_push($AppointmentFormErrors, "You Have Selected An Invalid Date For Your Appointment");
60     } else {
61         $_SESSION["AppointmentDetails"]["AppointmentDate"] = $Date;
62         $_SESSION["AppointmentDetails"]["AppointmentTime"] = $_POST["AppointmentTime"];
63         header("Location: BookNewAppointment3");
64     }
65 } ?>
66 <html>
67 <head>
68 <meta charset="utf-8">
69 <title>Book New Appointment - Cheeko MOT Centre</title>
70 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
71 </head>
72 <div class="TimeLayout">
73     
74     <body style="background: #1368A9; overflow: hidden;">
75     <div class="AppointmentTimeContainer">
76         <h2>Appointment Times For Date: <?php echo $Date ?></h2><br><br>
77         <?php if (count($AppointmentFormErrors)>0){>
78             <div class="ErrorBox" style="border-radius: 10px; width: 88.1%; height: 58px; margin: -17.5px 0 -2.25px 65px;">
79                 <div class="ErrorMessage" style="font-size: 13.75px; text-align: center; padding: 12.5px 0; letter-spacing: 1.25px; font-weight: 700;">
80                     <?php foreach ($AppointmentFormErrors as $errorMessage){?>
81                         <?php echo $errorMessage . "<br>"?>
82                     </?php endforeach ?>
83                 </div>
84             </?php endif ?>
85             <?php
86             /* These Times Are The Boundary Of The Earliest Time A Customer Can Book And What Time The Last Appointment Ends Since These Are The Opening And Closing Hours
87             Which Helps To Ensure That The Available Appointment Times Aren't Outside These Two Boundaries */
88             $StartTime = "08:00";
89             $EndTime = "19:00";
90             $ServiceID = $_SESSION["AppointmentDetails"]["Service"];
91             $AppointmentLength = "SELECT Duration FROM services WHERE ServiceID = '$ServiceID' LIMIT 1";
92             $GetAppointmentLength = mysqli_query($Conn, $AppointmentLength);
93             $AppointmentDuration = "";
94             while($Row = mysqli_fetch_assoc($GetAppointmentLength)){
95                 $AppointmentDuration .= $Row["Duration"];
96             }
97             $AppointmentDurationHours = ($AppointmentDuration / 60);
98             list($Hours, $Minutes) = explode(".", $AppointmentDurationHours);
99             if($Minutes>0){
100                 $Minutes = "0." . $Minutes;
101             } else {
102                 $Minutes = 0;
103             }
104             $Interval = ($Minutes * 60);
105             if($Interval<60 && $Interval>0){
106                 $Interval = 60 - $Interval;
107             }
108             $GapTime = round($Interval, 5);
109             // The Gap Time Between Each Appointment Varies Based On The Service And Is Calculated To Ensure That The Next Appointment Begins At The Beginning Of The Next Hour
110             $TimeSlots = AppointmentTime($AppointmentDuration, $GapTime, $StartTime, $EndTime, $Date);
111             foreach($TimeSlots as $Times){
112                 if (strpos($Times, "onClick='return false'") == true){
113                     echo $Times;
114                 } else {
115                     <div class="SelectSlots">
116                         <form action="AppointmentTimeSchedule?Date=<?php echo $Date ?>" method="post">
117                             <button class="AppointmentTime" type="submit" value="<?php echo $Times; ?>" name="AppointmentTime"><?php echo $Times; ?></button>
118                         </form>
119                     </div><?php } ?>
120                     <br><br><a class="ReturnToCalendar" href="AppointmentDateSchedule">Previous</a>
121                     <p class="Redirect" style="margin-top: 32.5px; font-size: 12.5px; letter-spacing: 1.5px;">Don't Want To Book An Appointment? Click
122                     <a href="#">Here</a> To Return To Your Account</p>
123             </div>
124         </body>
125         </div>
126     </html>
```

## Part 5 – Summary –

```
1  <!doctype html><?php
2  include("connectLoginSignupToMySQL.php");
3  error_reporting(0);
4  session_start();
5  if(!isset($_SESSION["AppointmentDetails"]){"RegistrationNumber"}) || (!isset($_SESSION["AppointmentDetails"]){"Service"}) || (!isset($_SESSION["AppointmentDetails"]){"AppointmentDateSchedule"}) |
6  header("Location: AppointmentDateSchedule");
7  } else {
8      $Date = date("Y-m-d");
9      $UsernameLogin = $_SESSION['UsernameLogin'];
10     $SubmitAccountDetailsQuery = mysqli_query($conn, "SELECT * FROM customerdetails WHERE Username = '$UsernameLogin' OR Email = '$UsernameLogin'");
11     while($Row = $SubmitAccountDetailsQuery){
12         $CustomerID = $Row['CustomerID'];
13         $GetUpcomingAppointments = mysqli_query($conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$CustomerID' AND AppointmentDate >= '$Date'");
14         if(mysqli_num_rows($GetUpcomingAppointments) > 0){
15             $AlertMessage = "You Already Have An Upcoming Appointment. Only One Appointment Can Be Booked At A Time.";
16             echo("<script type='text/javascript'>alert('$AlertMessage')</script>");
17             echo("<script>window.location='Account'</script>");
18         }
19     }
20 }
21 $FormErrors = array();
22 if(isset($_POST["Confirm"])){
23     if(isset($_POST["Payment"])){
24         header("Location: Payment");
25     } else {
26         $Username = $_SESSION['UsernameLogin'];
27         $GetCustomerID = mysqli_query($conn, "SELECT CustomerID FROM customerdetails WHERE Username = '$Username' OR Email = '$Username' LIMIT 1");
28         /* This Part Of The Code Runs If The User Hasn't Paid And It Inserts The Appointment, Finds And Allocates A Mechanic For The Appointment That Performs That
29         Specific Service And Is Working On The Appointment Day And Then Updates The Number Of Hours Worked By That Mechanic Performing That Service */
30         while($Row = mysqli_fetch_assoc($GetCustomerID)){
31             $ID = $Row['CustomerID'];
32             $RegistrationNumber = $_SESSION['AppointmentDetails']["RegistrationNumber"];
33             $Service = $_SESSION['AppointmentDetails']["Service"];
34             $AppointmentDate = $_SESSION['AppointmentDetails']["AppointmentDate"];
35             $AppointmentTime = $Row['AppointmentDetails']["AppointmentTime"];
36             list($AppointmentStartTime, $AppointmentEndTime) = explode(":", $AppointmentTime);
37             $AppointmentStartTime = substr($AppointmentStartTime, 0, 5);
38             $AppointmentEndTime = substr($AppointmentEndTime, 0, 5);
39             $Price = $_SESSION['AppointmentDetails']["Price"];
40             $Name = $_SESSION['AppointmentDetails']["ServiceName"];
41             // This SQL Query Is Used To Randomly Select A Mechanic Based On The Service And The Day Of The Week The Mechanic Is Off To Allocate To The Appointment
42             $GetMechanic = mysqli_query($conn, "SELECT MechanicID FROM mechanics WHERE DayOffWeekNotWorking <= DAYOFWEEK('$AppointmentDate') AND
43             MechanicType = '$Name' ORDER BY RAND() LIMIT 1");
44             if((mysqli_num_rows($GetMechanic)) > 0){
45                 while($Row = mysqli_fetch_assoc($GetMechanic)){
46                     $MechanicID = $Row['MechanicID'];
47                     $TotalHoursWorked = $Row['TotalHoursWorked'];
48                     //Inserts The Appointment With Paid Set To No If The User Selected Not To Make The Online Payment
49                     if(mysqli_query($conn, "INSERT INTO appointmentdetails ('AppointmentDate', 'AppointmentStartTime', 'AppointmentEndTime', 'Paid', 'TotalPrice',
50                     'ServiceID', 'CustomerID', 'RegistrationNumber') VALUES
51                     ('$AppointmentDate', '$AppointmentStartTime', '$AppointmentEndTime', '0', '$Price', '$Service', '$ID', '$RegistrationNumber')"));
52                     //Gets The ID Of The Inserted Appointment
53                     $LastAppointmentID = mysqli_insert_id($conn);
54                     //Allocates The Mechanic To The Appointment Which Is Stored In The Mechanic_On_Appointment Table
55                     $MechanicAssignment = "INSERT INTO mechanics_on_appointment ('AppointmentDate', 'AppointmentID', 'MechanicID') VALUES
56                     ('$AppointmentDate', '$LastAppointmentID', '$MechanicID')";
57                     if(mysqli_query($conn, $MechanicAssignment)){
58                         //Updates The Hours Worked By The Mechanic By Adding The Appointment Duration To The TotalHoursWorked Attribute For The Allocated Mechanic
59                         $UpdatedHoursWorked = ((round(($_SESSION['AppointmentDetails']["Duration"]) / 60, 2)) + $TotalHoursWorked);
60                         if(mysqli_query($conn, "UPDATE mechanics SET TotalHoursWorked = '$UpdatedHoursWorked' WHERE MechanicID = '$MechanicID'")){
61                             header("Location: AppointmentConfirmation");
62                         } else {
63                             array_push($PaymentErrors, "SQL Error. Please Try Again Later");
64                         }
65                     } else {
66                         $LastAppointmentID = mysqli_insert_id($conn);
67                         array_push($PaymentErrors, "Failure To Book Your Appointment. Please Try Again Later");
68                         //If The Hours Worked By The Mechanic Performing The Service Couldn't Be Updated, The Appointment Is Deleted From The Table And A
69                         //Error Message Is Returned To The User
70                         mysqli_query($conn, "DELETE FROM appointmentdetails WHERE AppointmentID = '$LastAppointmentID'");
71                     }
72                 }
73             }
74         }
75     }
76     array_push($FormErrors, "Failure To Find A Mechanic For Your Appointment. Please Try Again Later");
77 }
78 }
79 }
80 }?
81 <html>
82 <head>
83 <meta charset="utf-8">
84 <title>Book New Appointment - Cheeko MOT Centre</title>
85 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
86 </head>
87 <body class="HomeLayout">
88 <div class="AppointmentForm">
89 <?php
90 $Service = $_SESSION['AppointmentDetails']["Service"];
91 //This SQL Query Is Used To Get The Details Of The Service the Customer Has Selected To Book
92 $GetService = "SELECT * FROM services WHERE ServiceID = '$Service'";
93 $SubmitGetService = mysqli_query($conn, $GetService);
94 <center><h1>BOOK NEW APPOINTMENT</h1></center><center><br></center>
95 <div class="AppointmentInput">
96 <form action="BookNewAppointment3" method="post" autocomplete="off" style="margin-left: 37.125px;">
97 <?php if (count($FormErrors) > 0){>?
98     <div class="ErrorBox" style="margin-left: 0.875px; width: 89.625%;>
99         <div class="ErrorMessage">
100             <?php foreach ($FormErrors as $BookingFailure);>
101                 <?php echo $BookingFailure . "<br>">
102             </?php endforeach;>
103         </div>
104     </div><?php endif ?>
105     <label>APPOINTMENT DETAILS:</label><br>
106     <div class="AppointmentInput" style="margin-top: 15px;">
107         <label>REGISTRATION NUMBER:</label><input style="margin-left: 10px;" type="text" readonly="true" value="<?php echo $_SESSION['AppointmentDetails']["RegistrationNumber"] ?>">
108     </div>
109     <div class="AppointmentInput" style="margin-top: 15px;">
110         <?php while($Row = mysqli_fetch_assoc($SubmitGetService)){>
111             $SESSION['AppointmentDetails']["Service"] = $Row["ServicePrice"];
112             $SESSION['AppointmentDetails']["ServiceName"] = $Row["ServiceName"];
113             $SESSION['AppointmentDetails']["Duration"] = $Row["Duration"];
114             <label>SERVICE TYPE:</label><input type="text" style="margin-left: 10.25px; font-size: 10.625px;" readonly="true" value="<?php echo $Row['ServiceName'] ?>"></div>
115             <div class="AppointmentInput" style="margin-top: 15px;">
116                 <label>TOTAL PRICE:</label><input type="text" style="margin-left: 91.525px;" readonly="true" value="<?php echo $Row["ServicePrice"] ?>">
117             </div><?php } ?>
118             <div class="AppointmentInput" style="margin-top: 15px;">
119                 <label>APPOINTMENT DATE:</label><input type="text" style="margin-left: 37.35px;" readonly="true" value="<?php echo date("d-m-Y", strtotime($_SESSION['AppointmentDetails']["AppointmentDate"])); ?>">
120             </div>
121             <div class="AppointmentInput" style="margin-top: 15px;">
122                 <label>APPOINTMENT TIME:</label><input type="text" style="margin-left: 48.5px;" readonly="true" value="<?php echo $_SESSION['AppointmentDetails']["AppointmentTime"] ?>">
123             </div>
124             <div class="AppointmentInput" style="margin-top: 15px;">
125                 <label form="Checked" style="margin-top: relative; font-size: 0.85em; font-weight: 700;"><small>(OPTIONAL)</small></label>
126                 <input type="checkbox" id="Checked" name="Payment" value="PayNow" hidden><label for="Checked" class="CheckMark"></label>
127             </div>
128             <div class="AppointmentInput" style="margin-left: 100.125px; margin-top: -10px; margin-right: 1.25px; padding-bottom: 7.75px; width: 75px;">
129                 <?php $AppointmentTimeScheduleDate = <?php echo $_SESSION['AppointmentDetails']["AppointmentDate"] ?>?>Previous</a>
130                 <input class="Confirm" style="margin-left: 0; margin-bottom: 17.5px;" type="submit" value="Confirm" name="Confirm">
131             </div>
132         </div>
133         <?php $AppointmentTimeScheduleDate = <?php echo $_SESSION['AppointmentDetails']["AppointmentDate"] ?>?>Previous</a>
134         <input class="Confirm" style="margin-left: 0; margin-bottom: 17.5px;" type="submit" value="Confirm" name="Confirm">
135     </div>
136     </div>
137     <?php
138     <p class="Redirect">Don't Want To Book An Appointment? Click <a href="Account">Here</a> To Return To Your Account</p>
139     </?php
140     <div class="Car">
141         
142     </div>
143     <div class="Car2">
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147     </div>
148     </body>
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971     <?php
972     <?php
973     <?php
974     <?php
975     <?php
976     <?php
977    
```

**Part 6 – Payment (If Selected) –**

```

127     if (!preg_match('/[0-9]{3}/', $CVV)){
128         array_push($PaymentErrors, "The Card Verification Value (CVV) Is Invalid");
129         echo "<style><input[name='CVV']{border-bottom: 2px solid red !important;}</style>";
130     }
131 }
132 if(count($PaymentErrors)==0){
133     $FullAddress = $AddressLine1.", ".$AddressLine2;
134     $Username = $_SESSION["usernameLogin"];
135     $GetCustomerID = mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username = '$Username' OR Email='$Username' LIMIT 1");
136     while($Row = mysqli_fetch_assoc($GetCustomerID)){
137         $Row["CustomerID"];
138         $RegistrationNumber = $_SESSION["AppointmentDetails"]["RegistrationNumber"];
139         $Service = $_SESSION["AppointmentDetails"]["Service"];
140         $AppointmentDate = $_SESSION["AppointmentDetails"]["AppointmentDate"];
141         $AppointmentTime = $_SESSION["AppointmentDetails"]["AppointmentTime"];
142         List($AppointmentStartTime, $AppointmentEndTime) = explode("-", $AppointmentTime);
143         $AppointmentStartTime = substr($AppointmentStartTime,0,5);
144         $AppointmentEndTime = substr($AppointmentEndTime,0,5);
145         $Price = $_SESSION["AppointmentDetails"]["Price"];
146         $Name = $_SESSION["AppointmentDetails"]["ServiceName"];
147         // This SQL Query Is Used To Randomly Select A Mechanic Based On The Service And The Day Of The Week The Mechanic Is Off To Allocate To The Appointment
148         $GetMechanic = mysqli_query($Conn, "SELECT MechanicID, TotalHoursWorked FROM mechanics WHERE DayOfWeekNotWorking <= DAYOFWEEK('$AppointmentDate') AND
149         MechanicType = '$Name' ORDER BY RAND() LIMIT 1");
150         if((mysql_num_rows($GetMechanic)>0){
151             while($Row = mysqli_fetch_assoc($GetMechanic)){
152                 $MechanicID = $Row["MechanicID"];
153                 $TotalHoursWorked = $Row["totalHoursWorked"];
154                 //Inserts The Appointment With Paid Set To Yes If The Payment Details Are All Valid
155                 if(mysqli_query($Conn, "INSERT INTO `appointmentdetails` ('AppointmentDate', 'AppointmentStartTime', 'AppointmentEndTime', 'Paid',
156                 'TotalPrice', 'ServiceID', 'CustomerID', 'RegistrationNumber') VALUES
157                 ('$AppointmentDate', '$AppointmentStartTime', '$AppointmentEndTime', '1', '$Price', '$Service', '$ID', '$RegistrationNumber')"));
158                 //Gets The ID Of The Inserted Appointment
159                 $LastAppointmentID = mysqli_insert_id($Conn);
160                 //Allocates The Mechanic To The Appointment Which Is Stored In The Mechanic_On_Appointment Table And Add The Payment Details To The Database
161                 if(mysqli_query($Conn, "INSERT INTO `paymentdetails` ('CardholdersName', 'BillingAddress', 'PostalCode', 'CardNumber', 'CardType',
162                 'CardExpiryDate', 'CVV', 'AppointmentID') VALUES
163                 ('$CardholdersName', '$FullAddress', '$PostalCode', '$CardNumber', '$CardType', '$ExpiryDateMM/$ExpiryDateYYYY', '$CVV', '$LastAppointmentID')"));
164                 && mysqli_query($Conn, "INSERT INTO `mechanics_on_appointment` ('AppointmentDate', 'AppointmentID', 'MechanicID') VALUES
165                 ('$AppointmentDate', '$LastAppointmentID', '$MechanicID')"));
166                 $UpdatedHoursWorked = ((round(($_SESSION["AppointmentDetails"]["Duration"] / 60),2) + $TotalHoursWorked);
167                 //Update The Hours Worked By The Mechanic By Adding The Appointment Duration To The TotalHoursWorked Attribute For The Allocated Mechanic
168                 if(mysqli_query($Conn, "UPDATE mechanics SET TotalHoursWorked = '$UpdatedHoursWorked' WHERE MechanicID ='$MechanicID'"));
169                 } else {
170                     array_push($PaymentErrors, "SQL Error. Please Try Again Later");
171                 }
172             } else {
173                 $LastAppointmentID = mysqli_insert_id($Conn);
174                 array_push($PaymentErrors, "Failure To Book Your Appointment. Please Try Again Later");
175                 /* If The Hours Worked By The Mechanic Performing The Service Couldn't Be Updated, The Appointment Is Deleted From The Table And A
176                 Error Message Is Returned To The User */
177                 mysqli_query($Conn, "DELETE FROM appointmentdetails WHERE AppointmentID = '$LastAppointmentID'");
178             }
179         }
180     }
181 }
182 }
183 array_push($FormErrors, "Failure To Find A Mechanic For Your Appointment. Please Try Again Later");
184 }
185 }
186 }
187 ?>
<html>
<head>
<meta charset="utf-8">
<title>Book New Appointment - Cheeko MOT Centre</title>
<link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
<link rel="stylesheet" href="CSS/StyleSheetAddress.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script src="Address.min.js"></script>
</head>
<body class="HomeLayout">
<div class="AppointmentForm">
    <center><h1>BOOK NEW APPOINTMENT</h1></center><center><hr></center>
    <div class="PaymentInput">
        <form action="Payment" method="post" autocomplete="off">
            <?php if (count($PaymentErrors)>0):?
            <div class="ErrorBox" style="margin-left: 9.5px; width: 91.875%; border-radius: 7.5px;">
                <div class="ErrorMessage" style="font-size: 0.75px;">
                    <?php foreach ($PaymentErrors as $PaymentFailure):?>
                        <?php echo $PaymentFailure . "<br>"?>
                    <?php endforeach?>
                </div>
            </div>
            <?php endif ?>
            <label>PAYMENT DETAILS:</label><br>
            <div class="PaymentInput" style="margin-top: 3.75px;">
                <label>CARDHOLDERS NAME:</label><input type="text" style="margin-left: -0.25px;" name="CardholdersName" value="<?php echo $CardholdersName ?>">
            </div>
            <div class="PaymentInput" style="margin-top: 5px;">
                <label>SEARCH ADDRESS:</label><input type="text" placeholder="Search Address Here" style="margin-left: 179.875px; position: absolute; margin-top: -25px;" name="Address1" id="EnterAddress">
            </div>
            <div class="PaymentInput" style="margin-top: 10px;">
                <label>BILLING ADDRESS:</label><input type="text" placeholder="Address Line 1" style="margin-left: 28.875px;" name="Address1" id="Address1" readonly="true" value="<?php echo $AddressLine1 ?>"><br><input type="text" placeholder="Address Line 2" style="margin-top: 5px; margin-left: 179.875px;" name="Address2" id="Address2" readonly="true" value="<?php echo $AddressLine2 ?>"><input type="text" style="margin-top: 5px; margin-left: 180px;" placeholder="Postal Code" name="PostalCode" id="PostalCode" readonly="true" value="<?php echo $PostalCode ?>">
            </div>
            <div class="PaymentInput" style="margin-top: 3.25px;">
                <label>CARD NUMBER:</label><input type="text" maxlength="23" id="CardNumber" style="margin-left: 49.075px; width: 55.18125%" name="CardNumber" value="<?php echo $CardNumber ?>">
            </div>
            <div class="PaymentInput" style="margin-top: 3.75px;">
                <select name="CardType">
                    <option value="VISA" selected disabled>SELECT YOUR CARD TYPE</option>
                    <option value="VISA">VISA</option>
                    <option value="MasterCard">MasterCard</option>
                    <option value="Maestro">Maestro</option>
                    <option value="American Express">American Express</option>
                    <option value="UnionPay">UnionPay</option>
                    <option value="Discover">Discover</option>
                    <option value="Diners Club International">Diners Club International</option>
                </select>
            </div>
            <div class="PaymentInput" style="margin-top: 17.5px; margin-bottom: 7.5px;">
                <label>EXPIRY DATE:</label><input type="text" maxlength="2" placeholder="MM" style="width: 10%" name="MM" value="<?php echo $ExpiryDateMM ?>">
                <span style="color: #C0C0C0; position: absolute; padding: 5px 3.75px;"></span>
                <input type="text" maxlength="4" placeholder="YYYY" style="width: 12.5%; margin-left: 15px; margin-right: 15px;" name="YYYY" value="<?php echo $ExpiryDateYYYY ?>">
                <label>CVV:</label><input type="text" maxlength="3" style="width: 15%" name="CVV" value="<?php echo $CVV ?>">
            </div>
            <a class="Previous" style="margin-left: 187.875px; margin-right: 15px; padding-bottom: 7.875px;" href="BookNewAppointment3">Previous</a>
            <input class="Confirm" style="margin-left: 0;" type="submit" value="Confirm" name="Confirm">
        </form>
    </div>
</div>

```

```

254 <p class="Redirect">Don't Want To Book An Appointment? Click <a href="Account">Here</a> To Return To Your Account</p>
255 </body>
256 <div class="Car">
257   
258 </div>
259 <div class="Car2">
260   
261 </div>
262 </script>
263 /* Through JQuery, I Have Created This Function That Automatically Splits The String After 4 Characters As The User Types Since Most Card Numbers Are Formed Of
264 Blocks Divided Into 4 Numbers Each */
265 $('#CardNumber').keyup(function(){
266   var Format = $(this).val().split(" ").join("");
267   if (Format.length > 8) {
268     Format = Format.match(new RegExp('.{1,4}', 'g')).join(" ");
269   }
270   $(this).val(Format);
271 });
272 /* Through Extensive Research, I Was Able To Find A Free Address Finder Online Called IdealPostcodes That Contains A Dictionary Of All UK Addresses Which Helps To
273 Ensure That The Address Inputted By The Customer Is Valid And Exists And Improves User Ease And Experience */
274 const controller = new IdealPostcodes.AutoComplete.Controller({
275   api_key: "ak_kKwlvclx36d4aCejFbFanKh14mPd1",
276   inputField: "#EnterAddress",
277   outputFields: [
278     {line_1: "#Address1",
279      post_town: "#Address2",
280      postcode: "#PostalCode"
281    }
282  });
283 </script>
284 </html>

```

## Part 7 – Appointment Confirmation –

```

1 <!doctype html><?php
2 include("ConnectLoginSignupToMySQL.php");
3 error_reporting(0);
4 session_start();
5 //Prevent The Customer From Accessing This Page Unless They Have Just Booked An Appointment
6 if(!isset($_SESSION["AppointmentDetails"]["RegistrationNumber"])) || (!isset($_SESSION["AppointmentDetails"]["Service"])) || (!isset($_SESSION["AppointmentDetails"]["AppointmentDate"])) || !header("Location: Payment");
7 ?>
8 <html>
9 <head>
10 <meta charset="utf-8">
11 <title>Confirmation - Cheeko MOT Centre</title>
12 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
13 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
14 </head>
15 <body style="overflow-x: hidden;">
16 
17 <div class="ConfirmAppointment">
18   <div class="Arrow"></div>
19   <div class="ConfirmationMessage">
20     <h1 style="font-size: 42.5px; letter-spacing: 2.5px; margin-left: -9.125px;">Booking Confirmed</h1>
21     <div class="MessageConfirm"><?php
22       $Username = $_SESSION["Username"] . "\n";
23       $SQLGetCustomerID = mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username = '$Username' OR Email = '$Username' LIMIT 1");
24       while($Row = mysqli_fetch_assoc($SQLGetCustomerID)){
25         $ID = $Row["CustomerID"];
26       }
27       //SQL Query To Get The Appointment Details Of The Most Recent Appointment Booked By The Customer
28       $SQLGetAppointmentID = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$ID' ORDER BY AppointmentID DESC LIMIT 1");
29       while($Row = mysqli_fetch_assoc($SQLGetAppointmentID)){
30         $Date = strtotime($Row["AppointmentDate"]);
31         $Day = date("d", $Date);
32         $DayNumber = date("j", $Date);
33         $DayLetter = (date("S", $Date));
34         $Month = date("m", $Date);
35         $Year = date("Y", $Date); ?>
36         <p style="font-size: 25px; margin-top: -7.5px; margin-left: -15px;">Booking Reference Number: <?php echo "#A0".$Row["AppointmentID"] ?></p>
37         <p style="margin-left: -7.5px; font-size: 18.675px; margin-top: 15px;">Your appointment has been booked for
38           <?php echo $Day, " ", $DayNumber, " ", $DayLetter, " ", $Month, " ", $Year ?> between <?php echo $Row["AppointmentStartTime"]>;
39           if((($Row["AppointmentStartTime"])<12:00){ echo "AM"; } else { echo "PM"; } ?> to <?php echo $Row["AppointmentEndTime"]>;
40           if((($Row["AppointmentEndTime"])<12:00){ echo "AM"; } else { echo "PM"; } ?></p> ?>
41       </div>
42     </div>
43   <div class="AppointmentRules">
44     <h2 style="margin-bottom: 10px; letter-spacing: 1.25px;">Preparations for your Appointment:</h2>
45     <ul>
46       <?php // Messages Displayed To The Customer In Relation To The Appointment ?>
47       <li style="color: #000000;"><b>Due to the current precautionary measures in place because of the Coronavirus, the vehicles owner should arrive
48         unaccompanied at the time of their appointment. If you have any Coronavirus symptoms in the 14 days prior to your appointment,
49         we suggest you to rearrange the appointment for a later date either online or by phone for the safety of yourselves and others.</b></li>
50       <li>Arrive on time to prevent any delays in the remaining appointments on the day. We recommend that you leave 10-15 minutes earlier when coming
51         for your appointment to take into consideration obstacles that may occur such as traffic or road diversions/closures.</li>
52       <li>If you have booked an appointment for an MOT, you must bring your driving license on the day.</li>
53       <li>If you haven't paid for your appointment online, you must come prepared to pay at the time of your appointment.</li>
54       <li>Although optional, we would recommend bringing the vehicle logbook so that our mechanics gain a better understanding of your vehicle</li>
55       <li>If you wish to change your appointment date, time, service or pay online, you can do so by returning to your account.</li>
56     </ul>
57     <br><a href="Invoice"><i class="fa fa-eye"></i> View Invoice</a><a style="margin-left: 15px;" href="Invoice.pdf"><i class="fa fa-download"></i> Download Invoice</a><br><br><br>
58   <div class="HomeReturn">
59     <a href="Account?Inserted=SuccessfullyInserted" style="margin-top: 15px; padding: 15px 328.875px; background: #00A900;">Return To Your Account</a>
60   </div><br>
61 </div>
62 </body>
63 </html>

```

## 16. Booking Invoice

Screenshot:



### CHEEKO MOT CENTRE

431 Ilford Lane  
Essex, IG1 2PG  
020 8514 0404

### CUSTOMER DETAILS

Name: Ali Hasan  
Email: alirao2880@gmail.com  
Phone Number: 07305758674

### INVOICE

#### DETAILS OF APPOINTMENT

Reference	Registration Number	Service Type	Date	Starting Time	Ending Time
#A06	OE08 KSO	Full Service	30-01-2021	11:00AM	13:00PM

#### DETAILS OF PAYMENT

Reference	Billing Address	Card Number	Expiry Date	Amount
#P07	385 ILFORD LANE, ILFORD, IG1 2SL	**** * 2215	02/2022	£175.00



## Code:

```
1  <?php
2  session_start();
3  if(!isset($_SESSION["AppointmentDetails"]["RegistrationNumber"]) || (!isset($_SESSION["AppointmentDetails"]["Service"])) || (!isset($_SESSION["AppointmentDetails"]["AppointmentDate"]))
4  	header("Location: Payment");
5  }
6  $Pound = "#";
7  $Pound = str_replace(chr(194)," ",$Pound);
8  require("FPDF/fpdf.php");
9  include("ConnectLoginSignupToMySQL.php");
10 $Username = $_SESSION["UsernameLogin"];
11 //This SQL Statement Is Used To Get The Details Of The Customer In The Form of An Array
12 $Details = mysqli_fetch_array(mysqli_query($Conn, "SELECT CustomerID, Email, FirstName, LastName, PhoneNumber FROM customerdetails WHERE Username='$Username' OR
13 $Email='$Username' LIMIT 1"));
14 $ID = $Details["CustomerID"];
15 $GetInvoiceDetails = mysqli_query($Conn, "SELECT appointmentdetails.AppointmentID, appointmentdetails.AppointmentDate, appointmentdetails.AppointmentStartTime,
16 appointmentdetails.AppointmentEndTime, appointmentdetails.RegistrationNumber, appointmentdetails.TotalPrice, appointmentdetails.Paid FROM appointmentdetails
17 LEFT JOIN customerdetails ON customerdetails.CustomerID = appointmentdetails.CustomerID WHERE appointmentdetails.CustomerID='$ID' ORDER BY
18 appointmentdetails.AppointmentDate DESC LIMIT 1");
19 $InvoiceDetails = mysqli_fetch_array($GetInvoiceDetails);
20 $AppointmentID = $InvoiceDetails["AppointmentID"];
21 $Paid = $InvoiceDetails["Paid"];
22 if($InvoiceDetails["AppointmentStartTime"] < "12:00"){
23 	$AppointmentStartTime = $InvoiceDetails["AppointmentStartTime"]."AM";
24 } else {
25 	$AppointmentStartTime = $InvoiceDetails["AppointmentStartTime"]."PM";
26 }
27 if($InvoiceDetails["AppointmentEndTime"] < "12:00"){
28 	$AppointmentEndTime = $InvoiceDetails["AppointmentEndTime"]."AM";
29 } else {
30 	$AppointmentEndTime = $InvoiceDetails["AppointmentEndTime"]."PM";
31 }
32 $ServiceName = mysqli_fetch_array(mysqli_query($Conn, "SELECT services.ServiceName FROM services INNER JOIN appointmentdetails ON appointmentdetails.ServiceID =
33 services.ServiceID WHERE appointmentdetails.AppointmentID='$AppointmentID'"));
34 /* This SQL Statement Is Used To Join The Appointment And Payment Details Table And Get The Most Recent Booking By Ordering The Records Descending And Limiting The
35 Number Of Records To 1 */
36 $GetPaymentDetails = mysqli_query($Conn, "SELECT paymentdetails.paymentID, paymentdetails.PostalCode, paymentdetails.BillingAddress, paymentdetails.CardNumber,
37 paymentdetails.CardType, paymentdetails.CardExpiryDate FROM paymentdetails LEFT JOIN appointmentdetails ON appointmentdetails.AppointmentID =
38 paymentdetails.AppointmentID WHERE appointmentdetails.AppointmentID = '$AppointmentID' LIMIT 1");
39 $Pay = mysqli_fetch_array($GetPaymentDetails);
40 //Split The Card Number Into 4 Parts With The First Three Parts Hidden
41 if($Paid=="1"){
42 	list($Part1,$Part2,$Part3,$Part4) = explode(" ",$Pay["CardNumber"]);
43 }
44 /* Through The Use Of An External PHP Library Called FPDF, I Have Been Able To Design And Create A Dynamic Invoice Which Is Auto-Generated Once The Booking Has
45 Been Completed With A Fully Functioning QR Code Which Uniquely Identifies The Appointment ID The Invoice Is For When The QR Code Is Scanned */
46 $PDF = new FPDF("p", "", array(211.25, 215)); //Portrait, Measurements in Millimetres, A4 Page Size
47 $PDF->AddPage();
48 $PDF->Image('Cheeko MOT Centre Logo (Without Address).jpg', 10, 10, 192.5);
49 $PDF->Cell(190.5, 33.875, "", 0, "C");
50 $PDF->SetFont("Helvetica", "B", 12.5);
51 $PDF->Cell(130.5, 5, "CHEEKO MOT CENTRE", 0, 0, "L");
52 $PDF->Cell(125.6, 2.5, "CUSTOMER DETAILS", 0, 1, "L");
53 $PDF->SetFont("Helvetica", "I", 11.25);
54 $PDF->Cell(130.5, 5, "431 Ilford Lane", 0, 0, "L");
55 $PDF->Cell(125.5, "Name: ". $Details["FirstName"] . " " . $Details["LastName"], 0, 1, "L");
56 $PDF->Cell(130.5, 5, "Essex, IG1 2PG", 0, 0, "L");
57 $PDF->Cell(125.5, "Email: " . $Details["Email"], 0, 1, "L");
58 $PDF->Cell(130.5, 5, "020 8516 0404", 0, 0, "L");
59 $PDF->Cell(125.5, "Phone Number: " . $Details["PhoneNumber"], 0, 1, "L");
60 $PDF->Cell(190.5, 7.5, "", 0, 1, "C");
61 $PDF->SetFont("Helvetica", "B", 15);
62 $PDF->SetFillColor(0, 0, 0);
63 $PDF->SetTextColor(255, 255, 255);
64 $PDF->Cell(192.5, 15, "INVOICE", 1, 1, "C", TRUE);
65 $PDF->SetFont("Helvetica", "B", 13.75);
66 $PDF->SetTextColor(0, 0, 0);
67 $PDF->Cell(190.5, 2.5, "", 0, 1, "C");
68 $PDF->SetLineWidth(0.5);
69 $PDF->SetFillColor(230, 230, 230);
70 $PDF->Cell(192.5, 12.5, "DETAILS OF APPOINTMENT", 1, 1, "C", TRUE);
71 $PDF->SetFont("Helvetica", "B", 18);
72 $PDF->Cell(20.5, 10, "Reference", 1, 0, "C");
73 $PDF->Cell(20.5, 10, "Registration Number", 1, 0, "C");
74 $PDF->Cell(58.25, 10, "Service Type", 1, 0, "C");
75 $PDF->Cell(22.25, 10, "Date", 1, 0, "C");
76 $PDF->Cell(26.75, 10, "Starting Time", 1, 0, "C");
77 $PDF->Cell(25.10, "Ending Time", 1, 1, "C");
78 $PDF->SetFont("Helvetica", "I", 10);
79 $PDF->Cell(28.5, 12.5, "AM", $InvoiceDetails["AppointmentID"], 1, 0, "C");
80 $PDF->Cell(40.12.5, $InvoiceDetails["RegistrationNumber"], 1, 0, "C");
81 $PDF->SetFont("Helvetica", "B", 9.75);
82 $PDF->Cell(58.25, 12.5, "ServiceName", "ServiceName", 1, 0, "C");
83 $PDF->SetFont("Helvetica", "B", 10);
84 $PDF->Cell(22.25, 12.5, "DETAILS OF PAYMENT", 1, 1, "C", TRUE);
85 $PDF->Cell(20.75, 12.5, $AppointmentStartTime, 1, 0, "C");
86 $PDF->Cell(25.12.5, $AppointmentEndTime, 1, 0, "C");
87 $PDF->SetFont("Helvetica", "B", 13.75);
88 $PDF->Cell(190.5, 15, "", 0, 1, "C");
89 $PDF->SetFillColor(230, 230, 230);
90 $PDF->Cell(192.5, 12.5, "DETAILS OF PAYMENT", 1, 1, "C", TRUE);
91 $PDF->SetFont("Helvetica", "B", 18);
92 $PDF->Cell(20.5, 10, "Reference", 1, 0, "C");
93 $PDF->Cell(96.10, "Billing Address", 1, 0, "C");
94 $PDF->Cell(32.5, 10, "Card Number", 1, 0, "C");
95 $PDF->Cell(23.875, 10, "Expiry Date", 1, 0, "C");
96 $PDF->Cell(19.675, 10, "Amount", 1, 1, "C");
97 if($Paid == "1"){
98 	$PDF->SetFont("Helvetica", "B", 10);
99 	$PDF->Cell(20.5, 12.5, "AM", $Pay["PaymentID"], 1, 0, "C");
100 $PDF->Cell(96.12.5, $Pay["BillingAddress"], 1, 0, "C");
101 $PDF->Cell(32.5, 12.5, "**** * * * * * . $Part4, 1, 0, "C");
102 $PDF->Cell(23.875, 12.5, $Pay["CardExpiryDate"], 1, 0, "C");
103 $PDF->Cell(19.675, 12.5, $Pound . $InvoiceDetails["TotalPrice"], 1, 1, "C");
104 } else {
105 	$PDF->SetFont("Helvetica", "B", 10);
106 	$PDF->SetFillColor(225, 0, 0);
107 	$PDF->SetTextColor(255, 255, 255);
108 	$PDF->Cell(192.5, 12.5, "PAYMENT PENDING", 1, 0, "C", TRUE);
109 }
110 $PDF->Image("http://localhost/ComputerScienceNEA/QRCodeGenerator?AppointmentID=$AppointmentID", 88.275, 175, 35, 35, "png");
111 $PDF->Output();
112 ?>
```

## 17. Change Appointment

Screenshot:

Part 1 – Select What To Change –

**CHANGE APPOINTMENT**

CHANGING THE APPOINTMENT DATE OR SERVICE MAY ALSO MEAN HAVING TO CHANGE THE APPOINTMENT TIME AS THE SAME TIME MAY NOT BE AVAILABLE ON OTHER DAYS OR THE DURATION OF THE SERVICE MAY NOT BE THE SAME

APPOINTMENT DETAILS:

REGISTRATION NUMBER	OE08 KSO
SERVICE TYPE	FULL SERVICE
TOTAL PRICE	£175.00
APPOINTMENT DATE	30-01-2021
APPOINTMENT TIME	11:00-13:00
PAYMENT MADE	NO

**CHANGE** **CHANGE** **CHANGE** **CHANGE**

[Return To Home](#)

Part 2 – Change Service –

**CHANGE SERVICE**

IF YOU CHANGE THE SERVICE, YOU WILL BE REFUNDED THE FULL PRICE OF THE EXISTING SERVICE AND CAN THEN CHOOSE TO PAY FOR THE NEW SELECTED SERVICE

APPOINTMENT DETAILS:

REGISTRATION NUMBER	OE08 KSO
SELECT SERVICE TYPE	<input checked="" type="radio"/>
APPOINTMENT DATE	2021-01-30
APPOINTMENT TIME	11:00-13:00
PAYMENT MADE	NO

**CHANGE SERVICE** **RETURN**

Part 3 – Change Appointment Date –



# CHEEKO MOT CENTRE

FEBRUARY 2021

	LAST MONTH	CURRENT MONTH	NEXT MONTH			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	2 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	3 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	4 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	5 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	6 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>
7 <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">N/A</span>	8 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	9 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	10 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	11 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	12 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	13 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>
14 <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">N/A</span>	15 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	16 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	17 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	18 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	19 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	20 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>
21 <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">N/A</span>	22 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	23 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	24 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	25 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	26 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>	27 <span style="border: 1px solid green; border-radius: 50%; padding: 2px;">BOOK</span>
28 <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">N/A</span>						

Part 4 – Change Appointment Time –



# CHEEKO MOT CENTRE

**Appointment Times For Date: 2021-01-30**

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09:00AM-11:00AM
11:00AM-13:00PM
13:00PM-15:00PM
15:00PM-17:00PM

17:00PM-19:00PM

Previous

## Part 5 – Change Payment (Only Accessible If Payment Not Already Made) –

BOOK NEW APPOINTMENT

PAYMENT DETAILS:

CARDHOLDERS NAME

SEARCH ADDRESS  SEARCH ADDRESS HERE

BILLING ADDRESS  ADDRESS LINE 1

ADDRESS LINE 2

POSTAL CODE

CARD NUMBER

SELECT YOUR CARD TYPE

EXPIRY DATE  MM /  YYYY  CVV

Code:

### Part 1 – Select What To Change –

```
1  <!doctype html><?php
2  session_start();
3  include("ConnectLoginSignupToMySQL.php");
4  if(!isset($_SESSION['UsernameLogin'])){
5      header("Location: Login");
6  } else {
7      $AppointmentID = $_GET["AppointmentID"];
8      $Username = $_SESSION["UsernameLogin"];
9      $CustomerID = mysqli_fetch_array(mysqli_query($Conn, "SELECT CustomerID FROM customerdetails WHERE Username = '$Username' OR Email = '$Username'"));
10     $Customer = $CustomerID["CustomerID"];
11     /* Here, I Check That The Appointment Details Being Accessed Belong To The User Or Not To Prevent Then From Accessing The Details Of Another Customers
12     Appointment As The User Can Change The AppointmentID From The URL */
13     $ExistingAppointment = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE AppointmentID = '$AppointmentID' AND CustomerID = '$Customer'");
14     if(mysqli_num_rows($ExistingAppointment) == 0){
15         header("Location: Account");
16     } else {
17         $AppointmentDetails = mysqli_fetch_array($ExistingAppointment);
18         $SESSION["AppointmentDetails"]["AppointmentID"] = $AppointmentDetails["AppointmentID"];
19         $SESSION["AppointmentDetails"]["CurrentAppointmentDate"] = $AppointmentDetails["AppointmentDate"];
20         $ServiceID = $AppointmentDetails["ServiceID"];
21         $ServiceType = mysqli_fetch_array(mysqli_query($Conn, "SELECT * FROM services WHERE ServiceID = '$ServiceID'"));
22         $SESSION["AppointmentDetails"]["CurrentServiceID"] = $ServiceType["ServiceID"];
23     }
24 } ?>
25 <html>
26 <head>
27 <meta charset="utf-8">
28 <title>Change Appointment - Cheeko MOT Centre</title>
29 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
30 </head>
31 <body class="HomeLayout">
32 <div class="AppointmentForm" style="transform: translate(72.125%, 5%); width: 550px;">
33 <center><h1>CHANGE APPOINTMENT</h1></center><center><hr></center>
34 <form style="margin-left: 5px; margin-top: 15px; cursor: default;">
35     <div class="UserMessage" style="background-color: #006900; border-radius: 7.5px; border: none; box-shadow: rgba(0, 0, 0, 0.16) 0px 3px 6px, rgba(0, 0, 0, 0.23) 0px 3px 6px; margin-left: 7.5px; width: 96%;>
36         <div class="Message" style="letter-spacing: 0.875px; font-size: 7.5px; padding: 4.25px 5px;">
37             CHANGING THE APPOINTMENT DATE OR SERVICE MAY ALSO MEAN HAVING TO CHANGE THE APPOINTMENT TIME AS THE SAME TIME MAY NOT BE AVAILABLE ON OTHER DAYS OR THE
38             DURATION OF THE SERVICE MAY NOT BE THE SAME
39         </div>
40     </div>
41     <label style="margin-top: 10px;">APPOINTMENT DETAILS:</label><br>
42     <div class="AppointmentInput" style="margin-top: 5px;">
43         <label>REGISTRATION NUMBER</label><input style="margin-left: 8.275px; letter-spacing: 1.25px; cursor: default;" type="text" value="php echo
44             $AppointmentDetails["RegistrationNumber"] ?" readonly = "true">
45     </div>
46     <div class="AppointmentInput" style="margin-top: 5px;">
47         <label>SERVICE TYPE</label><input style="margin-left: 82.725px; letter-spacing: 1.25px; cursor: default;" type="text" value="php echo
48             $ServiceType["ServiceName"] ?" readonly = "true"><a class="Change" style="margin-left: 5.975px;" href="ChangeServiceType">CHANGE</a>
49     </div>
50     <div class="AppointmentInput" style="margin-top: 5px;">
51         <label>TOTAL PRICE</label><input style="margin-left: 89.675px; letter-spacing: 1.25px; cursor: default;" type="text" value="php echo
52             $ServiceType["ServicePrice"] ?" readonly = "true">
53     </div>
54     <div class="AppointmentInput" style="margin-top: 5px;">
55         <label>APPOINTMENT DATE</label><input style="margin-left: 34.175px; letter-spacing: 1.25px; cursor: default;" type="text" value="php echo
56             date("d-m-Y", strtotime($AppointmentDetails["AppointmentDate"])) ?" readonly = "true">
57         <a style="margin-left: 2.125px;" href="ChangeAppointmentsDate" class="Change">CHANGE</a>
58     </div>
59 </div>
```

```

60 <div class="AppointmentInput" style="margin-top: 5px;">
61     <label>APPOINTMENT TIME</label><input style="margin-left: 37.5px; letter-spacing: 1.25px; cursor: default;" type="text" value="<?php echo
62     $AppointmentDetails["AppointmentStartTime"] . '-' . $AppointmentDetails["AppointmentEndTime"] ?>" readonly = "true">
63     <a class="Change" style="margin-left: 2.5px;" href="ChangeAppointmentTimeOnly?Date=<?php echo $AppointmentDetails["AppointmentDate"] ?>">CHANGE</a>
64 </div>
65 <div class="AppointmentInput" style="padding-bottom: 20px; margin-top: 5px;">
66     <?php
67     // If The User Has Already Paid, They Cannot Make A Payment Whereas If The Payment Was Not Made At The Time Of Booking, The Customer Can Make The Payment
68     if($AppointmentDetails["Paid"] == 1) {
69         <label>PAYMENT MADE</label><input type="text" style="margin-left: 65.625px; letter-spacing: 1.25px; cursor: default;" value="YES" readonly = "true">
70     } else {
71         <label>PAYMENT MADE</label><input type="text" style="margin-left: 65.625px; letter-spacing: 1.25px; cursor: default;" value="NO" readonly = "true">
72         <a class="Change" style="margin-left: 2.465px;" href="ChangePayment">CHANGE</a><?php } ?>
73     </div>
74 <div class="AppointmentInput"><a href="Account" class="ReturnToAccount">Return To Home</a></div><br>
75 </form>
76 </div>
77 </body>
78 <div class="Car">
79     
80 </div>
81 <div class="Car2">
82     
83 </div>
84 </html>

```

## Part 2 – Change Service –

```

1 <!doctype html>
2 <?php
3 session_start();
4 include("ConnectLoginSignupToMySQL.php");
5 if(!isset($_SESSION["usernameLogin"])){
6     header("Location: Login");
7 } else {
8     if(!isset($_SESSION["AppointmentDetails"]["AppointmentID"]) || (!isset($_SESSION["AppointmentDetails"]["CurrentServiceID"]))) {
9         header("Location: Account");
10    } else {
11        $AppointmentID = $_SESSION["AppointmentDetails"]["AppointmentID"];
12        $AppointmentDetails = mysqli_fetch_array(mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE AppointmentID = $AppointmentID"));
13        $ServiceID = $AppointmentDetails["ServiceID"];
14        $_SESSION["AppointmentDetails"]["CurrentServiceID"];
15        $AppointmentDate = $AppointmentDetails["AppointmentDate"];
16        $CurrentServiceDetails = mysqli_fetch_array(mysqli_query($Conn, "SELECT * FROM services WHERE ServiceID = '$ServiceID'"));
17        $CurrentAppointmentDuration = round($CurrentServiceDetails["Duration"]/60,2);
18    }
19 }
20 $Errors = 1;
21 $FormErrors = array();
22 if(isset($_POST["ChangeService"])){
23     if(empty($_POST["Service"])){
24         array_push($FormErrors, "Please Select A Service For Your Appointment");
25         echo "<style>select[name='Service']>{border-bottom: 2px solid red !important;</style>";
26         $Errors = 1;
27     } else {
28         $NewServiceID = $_POST["Service"];
29         $_SESSION["AppointmentDetails"]["ServiceID"] = $NewServiceID;
30         $NewServiceDetails = mysqli_fetch_array(mysqli_query($Conn, "SELECT * FROM services WHERE ServiceID = '$NewServiceID'"));
31         $_SESSION["AppointmentDetails"]["ServiceName"] = $NewServiceDetails["ServiceName"];
32         if($NewServiceID == $ServiceID){
33             header("Location: Account");
34         } elseif($CurrentServiceDetails["Duration"] == $NewServiceDetails["Duration"]){
35             $Errors = 0;
36         } else {
37             $_SESSION["AppointmentDetails"]["CurrentServiceID"];
38             header("Location: ChangeAppointmentDate");
39         }
40     }
41 }
42 if(isset($_POST["UpdateServices"])){
43     /* In This Section Of Code, If The User Changes Their Service Type For Their Appointment, A New Mechanic Is Identified For The Service And Is Allocated To The
44     Service, While The Number Of Hours Worked By The Mechanic That Was Initially Assigned To The Appointment Is Decremented By The Initial Appointment Duration. If
45     The User Had Made A Payment For Their Previous Appointment, The Payment Is Cancelled And Refunded As Different Services Have Different Prices And The Customer
46     Can Make A Payment For The New Service Through Their Account */
47     $Service = $_SESSION["AppointmentDetails"]["ServiceID"];
48     $ServiceDetails = mysqli_fetch_array(mysqli_query($Conn, "SELECT * FROM services WHERE ServiceID = '$Service'"));
49     $ServiceID = $ServiceDetails["ServiceID"];
50     $ServicePrice = $ServiceDetails["ServicePrice"];
51     $ServiceName = $ServiceDetails["ServiceName"];
52     $Duration = round($ServiceDetails["Duration"]/60,2);
53     // This SQL Query Is Used To Randomly Select A Mechanic Based On The Service And The Day Of The Week The Mechanic Is Off To Allocate To The Appointment
54     $AssignMechanic = mysqli_query($Conn, "SELECT MechanicID, TotalHoursWorked FROM mechanics WHERE DayOfWeekNotWorking <= DAYOFWEEK('$AppointmentDate') AND MechanicType = '$Service'";
55     if(mysqli_num_rows($AssignMechanic) > 0){
56         /*Select A Mechanic That Performs The Next Service That Has Been Selected
57         $CurrentMechanicOnAppointment = mysqli_fetch_array(mysqli_query($Conn, "SELECT mechanics_on_appointment.MechanicID FROM mechanics_on_appointment INNER JOIN mechanics ON
58         $IDOfMechanic = $CurrentMechanicOnAppointment['MechanicID']");
59         $Hoursworked = mysqli_fetch_array(mysqli_query($Conn, "SELECT TotalHoursWorked FROM mechanics WHERE MechanicID = $IDOfMechanic"));
60         $Total = $Hoursworked["TotalHoursWorked"];
61         $TotalHoursworked = $Total - $CurrentAppointmentDuration;
62         //Update The Hours Worked By The Mechanic By Removing The Appointment Duration To The TotalHoursWorked Attribute For The Allocated Mechanic
63         mysqli_query($Conn, "UPDATE mechanics SET TotalHoursWorked = '$TotalHoursWorked' WHERE MechanicID = '$IDOfMechanic'";
64         $MechanicID = $Mechanic["MechanicID"];
65         $Hours = $Mechanic["TotalHoursWorked"];
66         $UpdatedHoursworked = $Hours + $Duration;
67         $UpdatedHoursworked = $Hours + $Duration;
68         if($AppointmentDetails["Paid"] == 1){
69             //Delete The Payment From The Database If Made
70             mysqli_query($Conn, "DELETE FROM paymentdetails WHERE AppointmentID = '$AppointmentID'");
71         }
72         //Update The Service Of The Appointment And Reset Paid To 0
73         mysqli_query($Conn, "UPDATE 'appointmentdetails' SET 'Paid'='0', 'TotalPrice'='$ServicePrice', 'ServiceID'='$ServiceID' WHERE 'AppointmentID' =
74         '$AppointmentID'");
75         mysqli_query($Conn, "UPDATE mechanics SET TotalHoursWorked = '$UpdatedHoursworked' WHERE MechanicID = '$MechanicID'");
76         mysqli_query($Conn, "UPDATE mechanics_on_appointment SET MechanicID = '$MechanicID' WHERE AppointmentID = '$AppointmentID'");
77         header("Location: Account?updated=SuccessfullyUpdated");
78     } else {
79         array_push($FormErrors, "Failure To Find A Mechanic For Your Appointment. Please Try Again Later");
80     }
81 }
82 if(isset($_POST["ChangeDate"])){
83     header("Location: ChangeAppointmentDate");
84 }
85 if(isset($_POST["ChangeTime"])){
86     header("Location: ChangeAppointmentTime");
87 }
88 if(isset($_POST["Return"])){
89     header("Location: ChangeAppointment?AppointmentID=$AppointmentID");
90 } ?>
91 <html>
92 <head>
93 <meta charset="utf-8">
94 <title>Change Service - Cheeko MOT Centre</title>
95 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
96 </head>

```

```

97 <div id="SameDuration" class="MessageBox">
98     <div class="MessageContainer">
99         <div class="MessageHeader">
100            <h2 style="letter-spacing: 5px;">CHANGE SERVICE</h2><hr>
101        </div>
102        <div class="MessageText">
103            <p>Your Previous Service And New Service Are Of The Same Time Duration. Do You Want To Change The Appointment Date And Time?</p><hr>
104        </div>
105        <div class="MessageFooter">
106            <form action="ChangeServiceType" method="post">
107                <button name="ChangeDate" type="submit">CHANGE DATE AND TIME</button>
108                <button name="UpdateServices" type="submit">ONLY CHANGE SERVICE</button>
109            </form>
110        </div>
111    </div>
112 </div>
113 <body class="HomeLayout">
114 <div class="AppointmentForm" style="transform: translate(85%,5%); width: 500px;">
115     <center><h1 style="letter-spacing: 5px;">CHANGE SERVICE</h1></center><hr><center>
116     <form action="ChangeServiceType" method="post" style="margin-left: 20px;">
117         <?php if (count($formErrors)==0):?>
118             <div class="UserMessage" style="background-color: #009900; border-radius: 10px; border: none; box-shadow: 0.25px 0.25px 7.5px 0.25px #003E7C; margin-left: 7.5px; width: 5
119                 IF YOU CHANGE THE SERVICE, YOU WILL BE REFUNDED THE FULL PRICE OF THE EXISTING SERVICE AND CAN THEN CHOOSE TO PAY FOR THE NEW SELECTED SERVICE
120             </div>
121         </?php endif ?>
122         <?php if (count($formErrors)>0):?>
123             <div class="ErrorBox" style="background-color: #F68480; border-radius: 10px; margin-left: 7.5px; width: 91%; margin-top: 18px;">
124                 <div class="ErrorMessage">
125                     <?php foreach ($formErrors as $ErrorMessage):?>
126                         <?php echo $ErrorMessage , "<br>"?>
127                     </?php endforeach ?>
128                 </div>
129             </div>
130         </?php endif ?>
131         <label style="margin-top: 10px;">APPOINTMENT DETAILS:</label><br>
132         <div class="AppointmentInput" style="margin-top: 5px;">
133             <label>REGISTRATION NUMBER</label><input style="margin-left: 32.025px; letter-spacing: 1.25px; cursor: default;" type="text" value="<?php echo $AppointmentDetails["RegistrationNumber"] ?>" readonly = "true">
134         </div>
135         <div class="AppointmentInput">
136             <select name="Service" style="background-position: 415px center;">
137                 <option selected="disabled"><center>SELECT SERVICE TYPE</center></option>
138                 <?php
139                     $ServiceName = mysql_query($Conn, "SELECT * FROM services");
140                     while($Row = mysql_fetch_assoc($ServiceName)){
141                         <option value="<?php echo $Row["ServiceID"] ?>"><?php echo $Row["ServiceName"] ?></option><?php } ?>
142                     </option>
143                 </select>
144             <div class="AppointmentInput" style="margin-top: 5px;">
145                 <label>APPOINTMENT DATE</label><input style="margin-left: 59.175px; letter-spacing: 1.25px; cursor: default;" type="text" value="<?php echo $AppointmentDetails["AppointmentDate"] ?>">
146             </div>
147             <div class="AppointmentInput" style="margin-top: 5px;">
148                 <label>APPOINTMENT TIME</label><input style="margin-left: 62.5px; letter-spacing: 1.25px; cursor: default;" type="text" value="<?php echo $AppointmentDetails["AppointmentTime"] ?>">
149             </div>
150             <div class="AppointmentInput" style="padding-bottom: 15px; margin-top: 5px;">
151                 <?php
152                     if($AppointmentDetails["Paid"] == 1){ ?>
153                         <label>PAYMENT MADE</label><input type="text" style="margin-left: 91.125px; letter-spacing: 1.25px; cursor: default;" value="YES" readonly = "true">
154                     <?php } else { ?>
155                         <label>PAYMENT MADE</label><input type="text" style="margin-left: 91.125px; letter-spacing: 1.25px; cursor: default;" value="NO" readonly = "true">
156                     <?php } ?>
157                 </div>
158                 <div class="AppointmentInput" style="margin-top: 1.25px; margin-left: 7.75px;">
159                     <button class="ConfirmChange" name="ChangeService" type="submit">CHANGE SERVICE</button><button class="Return" name="Return" type="submit">RETURN</button>
160                 </div>
161             </div>
162         </div>
163     </form>
164 </div>
165 </body>
166 </script>
167 var Errors = <?php echo json_encode($Errors, JSON_HEX_TAG); ?>;
168 var SameDuration = document.getElementById("SameDuration");
169 if(Errors == 0){
170     SameDuration.style.display = "block";
171 }
172 </script>
173 <div class="Car">
174     
175 </div>
176 <div class="Car2">
177     
178 </div>
179 </html>

```

### Part 3 – Change Appointment Date –

```

1  <!doctype html><?php
2  include("ConnectLogInSignUpToMySQL.php");
3  session_start();
4  if(!isset($_SESSION["AppointmentDetails"]["AppointmentID"])) || (!isset($_SESSION["AppointmentDetails"]["CurrentServiceID"])) || (!isset($_SESSION["AppointmentDetails"]["CurrentAppointmentDate"]))
5  else {
6      $Date = date("Y-m-d");
7  }
8  /* I Have Created A PHP Function To Create A Booking Calendar To Allow The Customer To Select A New Date For Their Booked Appointment But The User Cannot Select
9  A Date Which Is A Sunday Or A Date Which Has Already Passed */
10 function CreateCalendar($Month, $Year)
11 {
12     //Connection Is Established With The Database
13     $Conn = new mysqli('localhost', 'root', '', 'chekkomcentre', 3306) or die("Connection Failed: " . $Conn->error);
14     $Bookings = array();
15     $GetAppointmentBookings = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE MONTH(AppointmentDate) = '$Month' AND YEAR(AppointmentDate) = '$Year'");
16     while($Row = mysql_fetch_assoc($GetAppointmentBookings)){
17         $Bookings[] = $Row['AppointmentDate'];
18     }
19     $DaysOfTheWeek = array("Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday");
20     // mktime (Hour,Minute,Second,Month,Day,Year)
21     $FirstDayOfMonth = mktime(0,0,0,$Month,1,$Year);
22     // "1" IS USED TO GET THE NUMBER OF DAYS IN A GIVEN MONTH
23     $NumberOfDays = date("t", $FirstDayOfMonth);
24     $Date = getdate($FirstDayOfMonth);
25     $MonthName = $Date["month"];
26     $DayOfTheWeek = $Date["day"];
27     $CurrentDate = date("Y-m-d");
28     $PreviousMonth = date("m", mktime(0,0,0,$Month-1,$Year));
29     $PreviousYear = date("Y", mktime(0,0,0,$Month-1,$Year));
30     $NextMonth = date("m", mktime(0,0,0,$Month+1,$Year));
31     $NextYear = date("Y", mktime(0,0,0,$Month+1,$Year));
32     $Calendar = "<h2 style='margin-left: 25px; letter-spacing: 7.5px; text-transform: uppercase; font-size: 27.5px; color: white; margin-bottom: -15px;
33     margin-top: 22.5px;'>$MonthName $Year</h2><br>";
34     $Calendar .= "<a class='Date' style='margin-left: -15px;' href=?Month=$PreviousMonth.&Year=$PreviousYear.>?Last Month</a>";
35     $Calendar .= "<a class='Date' href=?Month=$date("m").&Year=$date("Y").>Current Month</a>";
36     $Calendar .= "<a class='Date' href=?Month=$NextMonth.&Year=$NextYear.>?Next Month</a></center>";
37     $Calendar .= "<table>";
38     $Calendar .= "<tr>";
39     foreach ($DaysOfTheWeek as $Day){
40         $Calendar .= "<th>$Day</th>";
41     }
42     $Calendar .= "</tr><tr>";
43     $CurrentDay = 1;
44     if($DayOfTheWeek > 0){
45         for($X = 0; $X < $DayOfTheWeek; $X++){
46             $Calendar .= "<td class='emptyCells'></td>";
47         }
48     }

```

```

49 $Month = str_pad($Month,2,"0",STR_PAD_LEFT);
50 while($CurrentDay < $NumberOfDays){
51     if($dayOfTheWeek == 7){
52         $dayOfTheWeek = 0;
53         $calendar .= "</tr><tr>";
54     }
55     $todayDayNumber = str_pad($CurrentDay,2,"0",STR_PAD_LEFT);
56     $date = "Year-$Month-$todayDayNumber";
57     $dayName = date("l", strtotime($date));
58     $today = $date == date("Y-m-d") ? "Today";
59     if($dayName == "Sunday" & $date == date("Y-m-d")){
60         $calendar .= "<td class=\"$today\" style='padding:22.875px 0;'><h3>$CurrentDay</h3></td>";
61     } elseif($date == "Y-m-d"){
62         $calendar .= "<td class=\"$today\" style='padding:23.175px 0;'><h3>$CurrentDay</h3></td>";
63     } elseif($date < date("Y-m-d")){
64         $calendar .= "<td class=\"$today\"><h3>$CurrentDay</h3><button class='NA'>NA</button></td>";
65     } elseif($dayName == "Sunday" & $date < date("Y-m-d")){
66         $calendar .= "<td class=\"$today\"><h3>$CurrentDay</h3><button class='NA'>NA</button></td>";
67     } else {
68         $calendar .= "<td style='height:51.5px;' class=\"$today\"><h3 style='margin-bottom:4.5px;'>$CurrentDay</h3>
69         <a href='ChangeAppointmentsTime?date=$date'>Book</a></td>";
70     }
71     $CurrentDay++;
72     $dayOfTheWeek++;
73 }
74 if($dayOfTheWeek > 28){
75     for($x = $dayOfTheWeek; $x < 35; $x++){
76         $calendar .= "<td class='EmptyCells'></td>";
77     }
78 }
79 return $calendar;
80 }
81 $date = getdate();
82 if(isset($_GET["Month"]) && isset($_GET["Year"])){
83     $Month = $_GET["Month"];
84     $Year = $_GET["Year"];
85 } else {
86     $Month = $date["mon"];
87     $Year = $date["year"];
88 } ?>
89 <html>
90 <head>
91 <meta charset="utf-8">
92 <title>Change Appointment Date - Cheeko MOT Centre</title>
93 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
94 </head>
95 <body style="background: #1368A9;">
96     <img class="Logo" style="margin-left:250px; height: 110px; width:680;" src='Cheeko MOT Centre Logo (Without Address).jpg' alt='Cheeko MOT Centre Logo'>
97     <!-- The User Is Redirected To The Appointment Times Page For The Selected Date Once A Date Is Chosen -->
98     <a href="ChangeAppointment/AppointmentID=<php echo $_SESSION["AppointmentID"] ?> class="PreviousArrow">&#8249;</a>
99     <?php echo CreateCalendar($Month,$Year); ?>
100 </body>
101 </html>

```

## Part 4 – Change Appointment Time –

```

1 <!doctype html><?php
2 include("ConnectLoginSignupToMySQL.php");
3 error_reporting(0);
4 session_start();
5 if((!isset($_SESSION["AppointmentDetails"]["RegistrationNumber"])) || (!isset($_SESSION["AppointmentDetails"]["Service"]))){
6     header("Location: BookNewAppointment2");
7 } else {
8     $date = $_GET["Date"];
9     $usernameLogin = $_SESSION['UsernameLogin'];
10    $SubmitAccountDetailsQuery = mysqli_query($conn, "SELECT * FROM customerdetails WHERE Usrname = '$usernameLogin' OR Email = '$usernameLogin'");
11    while($value = mysqli_fetch_assoc($SubmitAccountDetailsQuery)){
12        $CustomerID = value["CustomerID"];
13        $GetUpcomingAppointments = mysqli_query($conn, "SELECT * FROM appointmentdetails WHERE CustomerID = '$CustomerID' AND AppointmentDate >= '$date'");
14        if(mysqli_num_rows($GetUpcomingAppointments) > 0){
15            $AlertMessage = "You Already Have An Upcoming Appointment. Only One Appointment Can Be Booked At A Time.";
16            echo("<script type='text/javascript'>alert('$AlertMessage')</script>");
17            echo("<script>window.location='Account'</script>");
18        }
19    }
20 }
21 /* This PHP Function Generates A Page Which Shows All The Time Slots Available On Any Given Day For The Chosen Service And If The Time Slot Is Already Booked By
22 Another Customer, That Time Slot Is Represented As A Red Unclickable Button To Prevent Users From Booking An Appointment At The Same Time Slot */
23 function AppointmentTime($AppointmentDuration,$GapTime,$StartTime,$EndTime,$date){
24     $Conn = new mysqli('localhost','root','','cheekomotcentre',3306) or die("Connection Failed: " . $Conn->error);
25     $StartTime = new DateTime($StartTime);
26     $EndTime = new DateTime($EndTime);
27     $AppointmentIntervals = new DateInterval("PT". $AppointmentDuration."M");
28     $AppointmentGapTime = new DateInterval("PT". $GapTime."M");
29     $AppointmentSlots = array();
30     for($StartTime = $StartTime; $StartTime < $EndTime; $StartTime->add($AppointmentIntervals)->add($AppointmentGapTime)){
31         $End = clone $StartTime;
32         $End -> add($AppointmentIntervals);
33         if($End > $EndTime){
34             break;
35         }
36         $AppointmentStartTimeFormatted = $StartTime->format("H:iA");
37         $AppointmentEndTimeFormatted = $End->format("H:iA");
38         $AppointmentStartTime = $StartTime->format("H:i");
39         $AppointmentEndTime = $End->format("H:i");
40         //This SQL Statement Is Used To Find The Appointment Times That That Have Already Been Booked On The Selected Date
41         $GetTimeTaken = mysqli_query($conn, "SELECT * FROM appointmentdetails WHERE (AppointmentStartTime BETWEEN '$AppointmentStartTime' AND '$AppointmentEndTime'
42         AND AppointmentStartTime <> '$AppointmentEndTime') AND AppointmentDate = '$date' LIMIT 1");
43         if(mysqli_num_rows($GetTimeTaken) > 0){
44             while($Row=mysqli_fetch_assoc($GetTimeTaken)){
45                 //An Unclickable Button Which Represents The Appointment Times That Have Already Been Booked Is Inserted In The Array
46                 $AppointmentSlots[] = "<div class='SelectSlots'><button onClick='return false;' class='AppointmentTimeBooked'>
47                 $AppointmentStartTimeFormatted-$AppointmentEndTimeFormatted</button></div>";
48             }
49         } else {
50             $AppointmentSlots[] = $AppointmentStartTimeFormatted."-".$AppointmentEndTimeFormatted;
51         }
52     }
53     return $AppointmentSlots;
54 }
55 $AppointmentFormErrors = array();
56 if(isset($_POST["AppointmentTime"])){
57     list($Year,$Month,$Day) = explode("-", $date);
58     //Check If The User Has Changed The URL To An Invalid Date, A Past Date Or A Date That Is Sunday
59     if( $Year < date("Y") || $Month > 12 || $Month < 1 || $Day > 31 || $Day < 1 || $date < date("Y-m-d") || (date('N', strtotime($date)) == 7) ){
60         array_push($AppointmentFormErrors, "You Have Selected An Invalid Date For Your Appointment");
61     } else {
62         $_SESSION["AppointmentDetails"]["AppointmentDate"] = $date;
63         $_SESSION["AppointmentDetails"]["AppointmentTime"] = $_POST["AppointmentTime"];
64         header("Location: BookNewAppointment3");
65     }
66 }
67 <html>
68 <head>
69 <meta charset="utf-8">
70 <title>Book New Appointment - Cheeko MOT Centre</title>
71 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
72 </head>
73 <div class="TimeLayout">
74     <div class="Logo" style="background: #1368A9; overflow: hidden;">
75         <div class="AppointmentTimeContainer">
76             <h2>Appointment Times For Date: <?php echo $date ?></h2><br>
77             <?php if (count($AppointmentFormErrors) > 0):>
78                 <div class="ErrorBox" style="border-radius: 10px; width: 88.1%; height: 50px; margin: -17.5px 0 -2.25px 65px;">
79                     <div class="ErrorMessage" style="font-size: 13.75px; text-align: center; padding: 12.5px 0; letter-spacing: 1.25px; font-weight: 700;">
80                         <?php foreach ($AppointmentFormErrors as $errorMessage):?>
81                             <?php echo $errorMessage . "<br>"?>
82                         </div>
83                     </div>
84                 </div>
85             <?php endif ?>
86         </div>
87     </div>
88 </body>

```

```

87
88 <?php
89     /* These Times Are The Boundary Of The Earliest Time A Customer Can Book And What Time The Last Appointment ENds Since These Are The Opening And Closing Hours
90     Which Helps To Ensure That The Available Appointment Times Aren't Outside These Two Boundaries */
91     $StartTime = "9:00";
92     $EndTime = "19:00";
93     $ServiceID = $_SESSION["AppointmentDetails"]["Service"];
94     $AppointmentLength = "SELECT Duration FROM services WHERE ServiceID = '$ServiceID' LIMIT 1";
95     $GetAppointmentLength = mysqli_query($conn, $AppointmentLength);
96     $AppointmentDuration = "";
97     while($Row = mysqli_fetch_assoc($GetAppointmentLength)){
98         $AppointmentDuration .= $Row["Duration"];
99     }
100    $AppointmentDurationHours = ($AppointmentDuration / 60);
101    list($Hours,$Minutes) = explode(".", $AppointmentDurationHours);
102    if($Minutes<0){
103        $Minutes = "0.". $Minutes;
104    } else {
105        $Minutes = 0;
106    }
107    $Interval = ($Minutes * 60);
108    if($Interval<60 && $Interval>0){
109        $Interval = 60 - $Interval;
110    }
111    $GapTime = round($Interval,5);
112    // The Gap Time Between Each Appointment Varies Based On This Service And Is Calculated To Ensure That The Next Appointment Begins At The Beginning Of The Next Hour
113    $TimeSlots = AppointmentTime($AppointmentDuration, $GapTime, $StartTime, $EndTime, $Date);
114    foreach($TimeSlots as $Times){
115        if (stripos($Times, "onClick='return false'") == true){
116            echo $Times;
117        } else {
118            <div class="SelectSlots">
119                <form action="AppointmentTimeSchedule?Date=<?php echo $Date ?>" method="post">
120                    <button class="AppointmentTime" type="submit" value="<?php echo $Times; ?>" name="AppointmentTime"><?php echo $Times;?></button>
121                </form>
122            </div><?php } ?>
123            <br><br><a class="ReturnToCalendar" href="AppointmentDateSchedule">Previous</a>
124            <p class="Redirect" style="margin-top: 32.5px; font-size: 12.5px; letter-spacing: 1.5px; >Don't Want To Book An Appointment? Click
125            <a href="Account">Here</a> To Return To Your Account</p>
126        </div>
127    </body>
128    </div>
129    </html>

```

#### Part 5 – Change Payment (Only Accessible If Payment Not Already Made) –

```

90     } else {
91         if ($ExpiryDateMM < "1" || $ExpiryDateMM > "12") {
92             array_push($PaymentErrors, "The Month Of The Expiry Date Of Your Card Is Invalid");
93             echo "<style>input[name='MM']>input[name='YYYY'][border-bottom: 2px solid red !important;</style>";
94             foreach (array_keys($PaymentErrors, "Your Card Has Expired", true) as $Key) {
95                 unset($PaymentErrors[$Key]);
96             }
97         } else {
98             if ((strlen($ExpiryDateMM)) <> 2) {
99                 array_push($PaymentErrors, "The Month Of The Expiry Date Of Your Card Must Be In Format MM");
100                echo "<style>input[name='MM'][border-bottom: 2px solid red !important;</style>";
101            }
102        }
103    }
104 }
105 if(empty($_POST["CVV"])){
106     array_push($PaymentErrors, "Please Enter Your Card Verification Value (CVV)");
107     echo "<style>input[name='CVV'][border-bottom: 2px solid red !important;</style>";
108 }
109 else {
110     $CVV = strtoupper(Fix_Input($_POST["CVV"]));
111     //Validate The CVV Format
112     if (!preg_match('/[0-9]{3}/', $CVV)){
113         array_push($PaymentErrors, "The Card Verification Value (CVV) Is Invalid");
114         echo "<style>input[name='CVV'][border-bottom: 2px solid red !important;</style>";
115     }
116 }
117 if(count($PaymentErrors)==0){
118     $fullAddress = $AddressLine1.", ".$AddressLine2;
119     //Insert The Payment Details Into The Database
120     mysql_query($conn, "INSERT INTO `paymentdetails`(`CardholdersName`, `BillingAddress`, `PostalCode`, `CardNumber`, `CardType`, `CardExpiryDate`, `CVV`, `AppointmentID`) VALUES
121     ('$CardholdersName', '$fullAddress', '$PostalCode', '$CardNumber', '$CardType', '$ExpiryDateMM/$ExpiryDateYYYY', '$CVV', '$AppointmentID')");
122     //Update The Appointment Details Paid Field From 0 To 1 To Indicate That The Payment Has Been Made For The Appointment
123     mysql_query($conn, "UPDATE appointmentdetails SET Paid = '1' WHERE AppointmentID = '$AppointmentID'");
124     header("Location: Account?Payment=SuccessfullyPaid");
125 }
126 ?>
127 <html>
128 <head>
129 <meta charset="utf-8">
130 <title>Make Payment - Cheeko MOT Centre</title>
131 <link href="CSS/StyleBookNewAppointment.css" rel="stylesheet" type="text/css">
132 <link rel="stylesheet" href="CSS/StyleSheetAddress.css">
133 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
134 <script src="Address.min.js"></script>
135 </head>
136 <body class="HomeLayout">
137 <div class="AppointmentForm">
138     <center><h1>MAKE PAYMENT</h1></center><center><hr></center>
139     <div class="PaymentInput">
140         <form action="ChangePayment" method="post">
141             <?php if (count($PaymentErrors)>0):>
142                 <div class="ErrorBox" style="margin-left: 9.5px; width: 91.875%; border-radius: 7.5px;">
143                     <div class="ErrorMessage" style="font-size: 9.75px;">
144                         <?php foreach ($PaymentErrors as $PaymentFailure):?>
145                             <?php echo $PaymentFailure . "<br>"?>
146                         <?php endforeach?>
147                     </div>
148                 </div>
149             <?php endif?>
150             <Label>PAYMENT DETAILS:</Label><br>
151             <div class="PaymentInput" style="margin-top: 3.75px;">
152                 <Label>CARDHOLDERS NAME</Label><input type="text" style="margin-left: -0.25px;" name="CardholdersName" value="<?php echo $CardholdersName ?>">
153             </div>
154             <div class="PaymentInput" style="margin-top: 5px;">
155                 <Label>SEARCH ADDRESS</Label><input type="text" placeholder="Search Address Here" style="margin-left: 179.875px; position: absolute; margin-top: -25px;" name="Address1" id="EnterAddress">
156             </div>
157             <div class="PaymentInput" style="margin-top: 10px;">
158                 <Label>BILLING ADDRESS</Label><input type="text" placeholder="Address Line 1" style="margin-left: 28.875px;" name="Address1" id="Address1" readonly="true" value="<?php echo $AddressLine1 ?>">
159             <input type="text" placeholder="Address Line 2" style="margin-top: 5px; margin-left: 179.875px;" name="Address2" id="Address2" readonly="true" value="<?php echo $AddressLine2 ?>">
160             <input type="text" style="margin-top: 5px; margin-left: 180px;" placeholder="Postal Code" name="PostalCode" id="PostalCode" readonly="true" value="<?php echo $PostalCode ?>">
161         </div>
162         <div class="PaymentInput" style="margin-top: 3.25px;">
163             <Label>CARD NUMBER</Label><input type="text" maxlength="23" id="CardNumber" style="margin-left: 49.075px; width: 55.10125px" name="CardNumber" value="<?ph
164             <div class="PaymentInput" style="margin-top: 3.75px;">
165                 <select name="CardType">
166                     <option value="VISA" selected disabled>SELECT YOUR CARD TYPE</option>
167                     <option value="MasterCard">MasterCard</option>
168                     <option value="Visa">Visa</option>
169                     <option value="Maestro">Maestro</option>
170                     <option value="American Express">American Express</option>
171                     <option value="UnionPay">UnionPay</option>
172                     <option value="Discover">Discover</option>
173                     <option value="Diners Club International">Diners Club International</option>
174                 </select>
175             </div>
176             <div class="PaymentInput" style="margin-top: 17.5px; margin-bottom: 7.5px;">
177                 <Label>EXPIRE DATE</Label><input type="text" maxlength="2" placeholder="MM" style="width: 18%" name="MM" value="<?php echo $ExpiryDateMM ?>">
178                 <span style="color: #222222; position: absolute; padding: 5px 3.75px;">/</span><input type="text" maxlength="4" placeholder="YYYY" style="width: 12.5%; margin-left: 15px; margin-right: 15px;" name="YYYY" value="<?php echo $ExpiryDateYYYY ?>">
179                 <Label>CVV</Label><input type="text" maxlength="3" style="width: 18%" name="CVV" value="<?php echo $CVV ?>">
180             </div>
181             <a class="Previous" style="margin-left: 187.875px; margin-right: 15px; padding-bottom: 7.875px;" href="ChangeAppointment?AppointmentID=<?php echo $AppointmentID ?>">Previous</a>
182             <input class="Confirm" style="margin-left: 0;" type="submit" value="Confirm" name="Confirm">
183         </form>
184     </div>
185     </div>
186     <div class="Car">
187         
188     </div>
189     <div class="Car2">
190         
191     </div>
192     <script>
193         /* Through JQuery, I Have Created This Function That Automatically Splits The String After 4 Characters As The User Types Since Most Card Numbers Are Formed Of
194         * Blocks Divided Into 4 Numbers Each */
195         $("[CardNumber]").keyup(function(){
196             var Format = $(this).val().split(" ").join("");
197             if (Format.length > 0) {
198                 Format = Format.match(new RegExp('.{1,4}', 'g')).join(" ");
199             }
200             $(this).val(Format);
201         });
202         /* Through Extensive Research, I Was Able To Find A Free Address Finder Online Called IdealPostcodes That Contains A Dictionary Of All UK Addresses Which Helps To
203         * Ensure That The Address Inputted By The Customer Is Valid And Exists And Improves User Ease And Experience */
204         var controller = new IdealPostcodes.AutoComplete.Controller();
205         controller.setAddressField("Address1");
206         controller.setPostcodeField("Address2");
207         controller.setPostcode("PostalCode");
208         controller.setAddress("Address1");
209         controller.setPostcode("Address2");
210         controller.setPostcode("PostalCode");
211     </script>
212 </html>

```

## CSS For 15 And 17:

```
1  @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700;800;900&display=swap');
2  *
3  margin: 0;
4  padding: 0;
5  text-decoration: none;
6  font-family: 'Poppins', sans-serif;
7  }
8  .TimeLayout{
9  margin: 2px 75px;
10 }
11 body{
12 overflow-x: hidden;
13 }
14 .Logo{
15 margin: 5px 0 0 0;
16 margin-left: 212.5px;
17 width: 65.5%;
18 height: 95px;
19 background: #1368A9;
20 }
21 .HomeLayout{
22 background: url("../Background For Appointment.jpg");
23 background-repeat: no-repeat;
24 background-size: 100%;
25 background-size: cover;
26 overflow: hidden;
27 position: relative;
28 }
29 .Car{
30 width: 400px;
31 height: 150px;
32 top: 460px;
33 left: -1000px;
34 position: absolute;
35 animation-name: SlideRight;
36 animation-duration: 5s;
37 animation-delay: 0.25s;
38 animation-timing-function: ease-in;
39 }
40 .Car img{
41 width: 375px;
42 height: 150px;
43 }
44 @keyframes SlideRight{
45 from{left: -1000px;}
46 to{left: 2000px;}
47 }
48 .Car2{
49 width: 400px;
50 height: 150px;
51 top: 485px;
52 left: -490px;
53 position: absolute;
54 animation-name: SlideLeft;
55 animation-duration: 5s;
56 animation-delay: 0.25s;
57 animation-timing-function: ease-in;
58 }
59 .Car2 img{
60 width: 375px;
61 height: 187.5px;
62 }
63 @keyframes SlideLeft{
64 from{left: 2000px;}
65 to{left: -1000px;}
66 }
67 @keyframes DragDown{
68 from{margin-top: -500px; opacity: 0;}
69 to{top: 50%; opacity: 1;}
70 }
71 .AppointmentForm{
72 width: 495px;
73 height: auto;
74 transform: translate(86.575%, 1.25%);
75 background: white;
76 border-radius: 12.5px;
77 position: relative;
78 top: 50%;
79 padding: 3.125px 2.5px;
80 animation-name: DragDown;
81 animation-duration: 1.5s;
82 }
83 h1{
84 padding: 15px 5px;
85 font-weight: 900;
86 letter-spacing: 1.75px;
87 font-size: 27.5px;
88 }
89 hr{
90 width: 75%;
91 background: black;
92 height: 0.25px;
93 margin-top: -5px;
94 border: solid 0.2px;
95 }
96 .VehicleInput form{
97 margin: 12.5px 10px 18px 45px;
98 }
99 .PersonalInput form{
100 margin: 12.5px 10px 18px 42.75px;
101 }
102 .AppointmentInput form{
103 margin: 12.5px 20px 18px 10px;
104 }
105 .PaymentInput form{
106 margin: 8.75px 20px 10px 31.125px;
107 }
108 .SelectSlots form{
109 display: inline;
110 }
111 label{
112 padding: 10px;
113 font-size: 14.275px;
114 font-weight: 600;
115 color: #373737;
116 letter-spacing: 0.75px;
117 }
118 .PersonalInput input[type="text"]){
119 margin: 1.25px 0;
120 font-size: 13.275px;
121 width: 52.5%;
122 border: 0;
123 border-bottom: 2px solid #C2C2C2;
124 color: #404040;
125 font-weight: 600;
126 outline: none;
127 letter-spacing: 0.5px;
128 padding: 4.25px 7.5px;
129 text-transform: uppercase;
130 }
131 .AppointmentInput input[type="text"]){
132 margin: 1.25px 0;
133 text-align: center;
134 font-size: 11.75px;
135 width: 45.875%;
136 border: 0;
137 border-bottom: 2px solid #C2C2C2;
138 color: #404040;
139 font-weight: 600;
140 outline: none;
141 letter-spacing: 0.75px;
142 padding: 4.25px 0;
143 text-transform: uppercase;
144 }
145 .PaymentInput input[type="text"]){
146 margin: 1.25px 0;
147 text-align: center;
148 font-size: 13.275px;
149 width: 55%;
150 border: 0;
151 border-bottom: 2px solid #C2C2C2;
152 color: #404040;
153 font-weight: 600;
154 outline: none;
155 letter-spacing: 1.25px;
156 padding: 4.25px 0;
157 text-transform: uppercase;
158 }
159 input::-webkit-inner-spin-button{
160 -webkit-appearance: none;
161 margin: 0;
162 }
163 ::placeholder{
164 color: #404040;
165 font-weight: 600;
166 }
167 .PaymentInput input[type="text"]::placeholder{
168 color: #808080;
169 font-weight: 600;
170 }
171 .PersonalInput select{
172 color: #373737;
173 font-size: 13.275px;
174 padding: 6.25px 2.5px;
175 letter-spacing: 0.75px;
176 font-weight: 600;
177 margin: 5px 0 -12.5px 7.5px;
178 width: 391.25px;
179 border: 0;
180 cursor: pointer;
181 outline: none;
182 border-bottom: 2px solid #C2C2C2;
183 -moz-appearance: none;
184 -webkit-appearance: none;
185 background-image: url("../Down-Arrow-2.png");
186 background-repeat: no-repeat;
187 background-size: 15px;
188 background-position: 370px center;
189 }
```

```

190 .PaymentInput select{
191   color: #373737;
192   font-size: 13.275px;
193   padding: 6.25px 2.5px;
194   letter-spacing: 0.75px;
195   font-weight: 600;
196   margin: 5px 0 -12.5px 8.25px;
197   width: 416.75px;
198   border: 0;
199   cursor: pointer;
200   outline: none;
201   border-bottom: 2px solid #C2C2C2;
202   -moz-appearance:none;
203   -webkit-appearance:none;
204   background-image: url("../Down-Arrow-2.png");
205   background-repeat: no-repeat;
206   background-size: 15px;
207   background-position: 395px center;
208 }
209 .VehicleInput select{
210   color: #373737;
211   font-size: 13.275px;
212   padding: 6.25px 2.5px;
213   letter-spacing: 0.75px;
214   font-weight: 600;
215   margin: 2.5px 0 -12.5px 9.25px;
216   width: 420.75px;
217   border: 0;
218   cursor: pointer;
219   outline: none;
220   border-bottom: 2px solid #C2C2C2;
221   -moz-appearance:none;
222   -webkit-appearance:none;
223   background-image: url("../Down-Arrow-2.png");
224   background-repeat: no-repeat;
225   background-size: 15px;
226   background-position: 395px center;
227   text-transform: uppercase;
228 }
229 .AppointmentInput select{
230   color: #373737;
231   font-size: 13.275px;
232   padding: 6.25px 2.5px;
233   letter-spacing: 0.75px;
234   font-weight: 600;
235   margin: 5px 0 5px 9.25px;
236   width: 439.25px;
237   border: 0;
238   cursor: pointer;
239   outline: none;
240   border-bottom: 2px solid #C2C2C2;
241   -moz-appearance:none;
242   -webkit-appearance:none;
243   background-image: url("../Down-Arrow-2.png");
244   background-repeat: no-repeat;
245   background-size: 15px;
246   background-position: 395px center;
247   text-transform: uppercase;
248 }
249 .PersonalInput option{
250   color: #373737;
251   font-size: 13.275px;
252   font-weight: 600;
253 }
254 .VehicleInput option{
255   color: #373737;
256   font-size: 13.275px;
257   font-weight: 600;
258   text-transform: uppercase;
259 }
260 .PaymentInput option{
261   color: #373737;
262   font-size: 13.275px;
263   font-weight: 600;
264   text-transform: uppercase;
265 }
266 .AppointmentInput option{
267   color: #373737;
268   font-size: 13.275px;
269   font-weight: 600;
270   text-transform: uppercase;
271 }
272 .Next{
273   width: 75px;
274   padding: 6.75px 15px;
275   border-radius: 20px;
276   cursor: pointer;
277   outline: none;
278   border: none;
279   margin: 0 0 0 327.5px;
280   font-size: 15px;
281   background: #0770E3;
282   font-weight: 600;
283   color: white;
284   letter-spacing: 1.75px;
285 }
286 .Confirm{
287   width: 110px;
288   padding: 6.75px 15px;
289   border-radius: 20px;
290   cursor: pointer;
291   outline: none;
292   border: none;
293   margin: 0 0 0 327.5px;
294   font-size: 15px;
295   background: #088B68;
296   font-weight: 600;
297   color: white;
298   letter-spacing: 1.75px;
299 }
300 .Previous:hover{
301   background: #9F1117;
302 }
303 .Next:hover{
304   background: #044E9E;
305 }
306 .Confirm:hover{
307   background: #069251;
308 }
309 .Previous{
310   width: auto;
311   padding: 6.75px 15px;
312   text-align: center;
313   border-radius: 20px;
314   cursor: pointer;
315   outline: none;
316   border: none;
317   margin: 5px 0 -5px 200px;
318   font-size: 15px;
319   background: #D1A21;
320   font-weight: 600;
321   color: white;
322   letter-spacing: 1.75px;
323 }
324 .ErrorBox{
325   margin-left: 12.125px;
326   width: 86%;
327   height: auto;
328   background-color: #F68480;
329   border-radius: 30px;
330   opacity: 87.5%;
331   border: 2px solid darkred;
332   margin-bottom: 5px;
333 }
334 .ErrorMessage{
335   padding: 5px 15px;
336   text-align:left;
337   color: rgba(73,0,0,1.00);
338   margin: 2.5px 1.25px;
339   font-size: 9.25px;
340   letter-spacing: 0.25px;
341   font-weight: 600;
342 }
343 .UserMessage{
344   margin-left: 12.5px;
345   width: 86%;
346   height: auto;
347   background: #00B147;
348   border-radius: 30px;
349   opacity: 75%;
350   border: 2px solid #007120;
351   margin-bottom: 7.5px;
352 }
353 .Message{
354   padding: 5px 17.5px;
355   color: white;
356   margin: 2.5px 1.25px;
357   font-size: 9.25px;
358   letter-spacing: 0.625px;
359   font-weight: 500;
360   text-align: center;
361   text-transform: uppercase;
362 }
363 .VehicleInput input[type="text"]{
364   margin: 1.25px 0;
365   font-size: 13.275px;
366   width: 45%;
367   border: 0;
368   border-bottom: 2px solid #C2C2C2;
369   color: #40A0A0;
370   font-weight: 600;
371   outline: none;
372   letter-spacing: 0.5px;
373   padding: 4.25px 7.5px;
374   text-transform: uppercase;
375 }
376 .Date{
377   font-weight: 600;
378   letter-spacing: 2px;
379   font-size: 17.5px;
380   text-transform: uppercase;
381   background-color: #4CAF50;
382   padding: 5px 10px;
383   margin: 10px 15px;
384   border-radius: 10px;
385 }
386 .Date:hover{
387   background-color: #38823B;
388 }
389 a.Date, a.Date{
390   color: white;
391 }
392 a.Date:visited, a.Date:visited{
393   color: white;
394 }
395 table,th,tr,td{
396   display: inline-block;
397 }
398 table{
399   margin-top: 15px;
400   margin-left: 52.5px;
401   color: white;
402 }
403 th{
404   padding: 6.75px 0;
405   border: 1.5px solid white;
406   width: 175px;
407   letter-spacing: 2.5px;
408   text-align: center;
409 }

```

```

410
411  td{
412    border: 1.5px solid white;
413    width: 175px;
414    position: relative;
415    text-align: center;
416    padding: 6.75px 0;
417  }
418  .Today{
419    background: #DC3545;
420    color: white;
421  }
422  .EmptyCells{
423    height: 61.5px;
424    background: #0B3D63;
425  }
426  .NA{
427    padding: 2.75px 15px;
428    margin: 2px 5px;
429    border-radius: 15px;
430    border: none;
431    outline: none;
432    font-size: 15px;
433    font-weight: 600;
434    letter-spacing: 1.25px;
435    color: white;
436    background: #DC3545;
437    box-shadow: 1.125px 1.125px 5px 1.125px #651E32;
438  }
439  .Book{
440    padding: 3.75px 12.5px;
441    margin: 15px 5px 2.5px;
442    border-radius: 15px;
443    border: none;
444    cursor: pointer;
445    outline: none;
446    font-size: 15px;
447    font-weight: 600;
448    letter-spacing: 1.75px;
449    color: white;
450    background-color: #4CAF50;
451    box-shadow: 1.125px 1.125px 5px 1.125px #651E32;
452  }
453  .Book:hover{
454    background-color: #38823B;
455  }
456  .SelectSlots{
457    position: relative;
458    margin: 12.5px 15px;
459    margin-left: 65px;
460    display: inline;
461  }
462  .AppointmentTime{
463    margin: 12.5px 2.5px;
464    width: 200px;
465    height: 50px;
466    text-align: center;
467    border: none;
468    outline: none;
469    border-radius: 8.75px;
470    font-weight: 600;
471    color: white;
472    background: #28A745;
473    cursor: pointer;
474    font-size: 15px;
475    box-shadow: 2.5px 2.5px 10px 2.5px #051E32;
476  }
477  .AppointmentTime:hover{
478    background: #1D7E33;
479  }
480  .AppointmentTimeBooked{
481    margin: 12.5px 2.5px;
482    box-shadow: 2.5px 2.5px 10px 2.5px #051E32;
483    width: 200px;
484    height: 50px;
485    text-align: center;
486    border: none;
487    outline: none;
488    border-radius: 8.75px;
489    font-weight: 600;
490    color: white;
491    background: #DC3545;
492    font-size: 15px;
493  }
494  .ReturnToCalendar{
495    padding: 15px 465px;
496    background: #D71A21;
497    margin-left: 67.5px;
498    border-radius: 10px;
499    box-shadow: 2.5px 2.5px 10px 2.5px #051E32;
500    color: white; font-size: 25px;
501    font-weight: 700;
502    letter-spacing: 3.5px;
503    outline: none;
504    border: none;
505    cursor: pointer;
506  }
507  .ReturnToCalendar:hover{
508    background: #9F1117;
509  }
510  .PreviousArrow{
511    margin-left: -1005px;
512    border-radius: 10px;
513    position: absolute;
514    margin-top: 146.25px;
515    padding: 1px 22.55px;
516    background: #D71A21;
517    font-size: 22.5px;
518    color: white;
519    font-weight: 800;
520  }
521  .PreviousArrow:hover{
522    background: #9F1117;
523  }
524  .AppointmentInput input[type="checkbox"]{
525    position: relative;
526  }
527  .AppointmentInput .CheckMark{
528    display: inline-block;
529    position: relative;
530    top: 6.5px;
531    border-radius: 5px;
532    width: 2.5px;
533    height: 2.5px;
534    background: #C0C0C0;
535    transition: background-color 0.375s;
536    cursor: pointer;
537    margin-left: 1.875px;
538  }
539  #Checked:checked ~ .CheckMark{
540    background: #68B868;
541  }
542  #Checked:checked ~ .CheckMark::after{
543    opacity: 1;
544    transform: translate(-50%, -50%) rotate(40deg) scale(1);
545  }
546  .CheckMark::after{
547    content: "";
548    position: absolute;
549    width: 2.5px;
550    height: 7.875px;
551    border-right: 2.75px solid #FFF;
552    border-bottom: 2.75px solid #FFF;
553    top: 42.875%;
554    left: 51.25%;
555    transform: translate(-50%, -50%) rotate(40deg) scale(10);
556    opacity: 0;
557    transition: all 0.25s;
558  }
559  .ConfirmAppointment{
560    width: 938.75px;
561    height: 250px;
562    background: #4C8817;
563    margin: 0 203.5px;
564    border-radius: 5px;
565  }
566  .Arrow{
567    width: 35px;
568    height: 112.5px;
569    border-right: 25px solid #FFF;
570    border-bottom: 25px solid #FFF;
571    top: 42.875%;
572    left: 51.25%;
573    transform: translate(195%, 25%) rotate(47.5deg) scale(0.875);
574    border-radius: 5px;
575  }
576  .ConfirmationMessage{
577    margin-left: 290px;
578    margin-top: -122.5px;
579    color: white;
580  }
581  .MessageConfirm{
582    margin-left: -62.5px;
583    width: 600px;
584    text-align: center;
585  }
586  .MessageConfirm p{
587    margin-bottom: 7.75px;
588    letter-spacing: 2.125px;
589    font-size: 20px;
590    font-weight: 700;
591    margin-left: 15px;
592  }
593  .AppointmentRules{
594    margin-top: 12.5px;
595    margin-left: 203.5px;
596  }
597  .AppointmentRules a{
598    background: dodgerblue;
599    color: white;
600    padding: 15px 126.125px;
601    border-radius: 10px;
602    font-size: 20px;
603    font-weight: 600;
604    letter-spacing: 2px;
605    margin: 25px 0;
606  }
607  .AppointmentRules a:hover{
608    background: #0069D0;
609  }
610  .HomeReturn a:hover{
611    background: #007900 !important;
612  }
613  ul{
614    margin-left: 50px;
615    margin-right: 250px;
616    margin-bottom: 10px;
617  }
618  ul li{
619    text-align: justify;
620    letter-spacing: 0.5px;
621    font-weight: 500;
622    font-size: 15px;
623  }
624  .Redirect{
625    text-align: center;
626    color: white;
627    font-weight: 600;
628    letter-spacing: 1px;
629    font-size: 11.25px;
630    margin-top: 10px;
631    position: relative;
632  }

```

```

633 .Redirect a{
634     color: #00ED00;
635 }
636 .Redirect a:visited{
637     color: #11FF11;
638 }
639 .Change{
640     background: orange;
641     padding: 3.25px 5px;
642     color: white;
643     display: inline-block;
644     cursor: pointer;
645     font-weight: 500;
646     letter-spacing: 1.25px;
647     border-radius: 7.5px;
648     font-size: 13.25px;
649     outline: none;
650     border: 2px solid #C37E00;
651 }
652 .Change:hover{
653     background: #C37E00;
654 }
655 /*Change Appointment CSS*/
656 .ConfirmChange{
657     padding: 10px 0;
658     width: 212.5px;
659     margin-right: 15px;
660     border: 2px solid #007900;
661     text-align: center;
662     color: white;
663     background: #00CB00;
664     cursor: pointer;
665     border-radius: 10px;
666     margin-bottom: 15px;
667     letter-spacing: 2.5px;
668     font-size: 15px;
669     font-weight: 700;
670     outline: none;
671 }
672 .ConfirmChange:hover{
673     background: #007900;
674 }
675 .Return{
676     padding: 10px 0;
677     width: 212.5px;
678     border: 2px solid #9F1117;
679     color: white;
680     background: #D71A21;
681     cursor: pointer;
682     border-radius: 10px;
683     margin-bottom: 15px;
684     letter-spacing: 2.5px;
685     font-size: 15px;
686     font-weight: 700;
687     outline: none;
688 }
689 .Return:hover{
690     background: #9F1117;
691 }
692 .MessageBox{
693     display: none;
694     z-index: 1;
695     position: fixed;
696     text-align: center;
697     top: -150px;
698     left: 0;
699     text-transform: uppercase;
700     overflow: auto;
701     background-color: rgb(0,0,0);
702     background-color: rgb(0,0,0,0.825);
703     animation-name: Dropdown;
704     animation-duration: 0.75s;
705 }
706 .MessageContainer{
707     background: #136D82;
708     margin: 25% 300px;
709     padding: 0px 1.5px;
710     border: 2px solid white;
711     font-size: 15px;
712     color: white;
713     border-radius: 10px;
714     font-weight: 600;
715     letter-spacing: 1.5px;
716     height: 185.875px;
717     cursor: default;
718 }
719 .MessageHeader{
720     padding: 7.5px 7.5px 0 7.5px;
721     background: #0B3D63;
722     margin-left: -1.75px;
723     border-top-left-radius: 9.25px;
724     border-top-right-radius: 9.25px;
725 }
726 .MessageHeader hr{
727     width: 102.125%;
728     margin-left: 10px;
729     margin: 7.5px -7.5px;
730     height: 1.25px;
731     background: white;
732 }
733 .MessageText hr{
734     width: 110.5%;
735     margin: 17.5px -37.5px;
736     height: 1.25px;
737     background: white;
738 }
739 .MessageText{
740     padding: 15px 35px;
741 }
742 .MessageFooter{
743     margin-top: -32.25px;
744     margin-left: -1.75px;
745     background: #0B3D63;
746     padding: 5.5px 10px;
747     border-bottom-left-radius: 9.25px;
748     border-bottom-right-radius: 9.25px;
749 }
750 .MessageFooter button{
751     padding: 5px 27.5px;
752     font-weight: 600;
753     color: white;
754     background: #DC3545;
755     letter-spacing: 1.875px;
756     cursor: pointer;
757     border-radius: 10px;
758     border: 1.5px solid #75141D;
759     margin: 0 20px;
760     outline: none;
761 }
762 .MessageFooter button:hover{
763     background: #75141D;
764 }
765 @keyframes Dropdown{
766     from{top: -500px; opacity: 0}
767     to{top: -150px; opacity: 1}
768 }
769 .ReturnToAccount{
770     padding: 7.5px 182.125px;
771     background: #D71A21;
772     margin-left: 7.5px;
773     border-radius: 10px;
774     color: white;
775     font-size: 15px;
776     border: 2px solid #9F1117;
777     font-weight: 600;
778     letter-spacing: 2.75px;
779     outline: none;
780     cursor: pointer;
781 }
782 .ReturnToAccount:hover{
783     background: #9F1117;
784 }
785 .AppointmentTimeContainer h2{
786     text-align: center;
787     margin: 5px 0;
788     font-size: 30px;
789     font-weight: 800;
790     letter-spacing: 4.25px;
791     margin-top: 20px;
792     margin-left: 7.5px;
793     color: white;
794 }
795 .AppointmentTimeContainer hr{
796     margin: 2.5px 212.5px;
797     width: 64.625%;
798     color: white;
799     height: 2.5px;
800     background: white;
801     border-radius: 50px;
802 }

```

## 18. Cancel Appointment

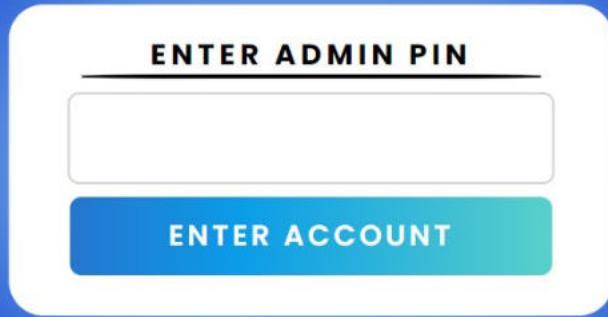
Code:

```
1  <?php
2  include("ConnectLoginSignupToMySQL.php");
3  $AppointmentID = $_GET['AppointmentID'];
4  /* When Cancelling An Appointment, The Number Of Hours Worked By The Mechanic Is Decrement As They Haven't Performed The Service And When I Designed My SQL Tables,
5  As I Had Linked The AppointmentID As A Foreign Key In The Payment Details Table With 'ON DELETE CASCADE', When An Appointment Is Cancelled, Any Associated Payments
6  Are Also Deleted From The Database */
7  //This SQL Query Is Used To Join The Service And Appointment Table To Find The Duration Of The Service The Customer Had Booked An Appointment For
8  $GetDuration = mysqli_fetch_array(mysqli_query($Conn, "SELECT services.duration FROM services INNER JOIN appointmentdetails ON services.ServiceID =
9  appointmentdetails.ServiceID WHERE appointmentdetails.AppointmentID = '$AppointmentID'"));
10 $Duration = $GetDuration["Duration"];
11 $Duration = round(($Duration/60),2);
12 //This SQL Query Is Used To Join The Mechanic And Mechanic_On_Appointment Table To Find The Mechanic ID For The Allocated Mechanic And The Total Hours Worked
13 By The Mechanic Performing The Particular Service /
14 $GetMechanicDetails = mysqli_fetch_array(mysqli_query($Conn, "SELECT mechanics.TotalHoursWorked, mechanics.MechanicID FROM mechanics INNER JOIN
15 mechanics_on_appointment ON mechanics.MechanicID = mechanics_on_appointment.MechanicID WHERE mechanics_on_appointment.AppointmentID = '$AppointmentID'"));
16 $TotalHoursWorked = $GetMechanicDetails["TotalHoursWorked"];
17 $MechanicID = $GetMechanicDetails["MechanicID"];
18 $NewTotalHoursWorked = $TotalHoursWorked - $Duration;
19 //Update The Hours Worked By The Mechanic
20 mysqli_query($Conn, "UPDATE mechanics SET TotalHoursWorked = '$NewTotalHoursWorked' WHERE MechanicID = '$MechanicID'");
21 //Delete The Appointment Details Of The Appointment Which Results In The Payment And Mechanic_On_Appointment Details Being Deleted Automatically
22 mysqli_query($Conn, "DELETE FROM appointmentdetails WHERE AppointmentID = '$AppointmentID'");
23 mysqli_query($Conn, "ALTER TABLE appointmentdetails AUTO_INCREMENT = 1");
24 //Redirect The User Back To Their Account
25 header("Location: Account?Updated=SuccessfullyUpdated");
26 ?>
```

## 19. Manager Account

Screenshot:

Part 1 – Admin Confirmation (PIN Number To Access Account) –





# CHEEKO MOT CENTRE

431 Ilford Lane • IG1 2PG

CUSTOMER DETAILS  
SERVICES AND PRICES  
MECHANIC DETAILS  
LOGOUT

## Welcome to your Account, Admin

**APPOINTMENTS BOOKED IN FEBRUARY**

APPOINTMENT ID	DATE	SERVICE	PAID	PRICE	CUSTOMER ID
#A08	01-02-2021	DIAGNOSTIC CHECK	YES	£60.00	#C08
#A09	09-02-2021	FULL SERVICE	NO	£175.00	#C04
#A010	01-02-2021	FULL SERVICE	YES	£175.00	#C05
#A011	01-02-2021	NUMBER PLATE	YES	£300.00	#C03
#A012	15-02-2021	FULL SERVICE + MOT	YES	£225.00	#C06
#A013	02-02-2021	BRAKE PAD REPLACEMENT	YES	£300.00	#C05
#A014	01-02-2021	AIR CONDITIONING RECHARGE (R134A)	YES	£60.00	#C03
#A015	03-02-2021	ENGINE OIL AND FILTER CHANGE	YES	£50.00	#C03
#A016	03-02-2021	AIR CONDITIONING RECHARGE (R134A)	NO	£60.00	#C05

TOTAL REVENUE IN FEBRUARY: £1405.00

**TOTAL REVENUE IN FEBRUARY**  
£1405.00

**AVERAGE REVENUE IN FEBRUARY**  
£156.11

**MECHANIC RANKINGS**  
(ORDER BY HOURS WORKED)

1. MATTHEW SMITH : 7 HRS 50 MINS
2. HAROUN ALI : 1 HRS 30 MINS
3. ARUN MAINI : 1 HRS 30 MINS

**MOST COMMON SERVICE IN FEBRUARY**  
AIR CONDITIONING RECHARGE (R134A)  
TIMES BOOKED: 2

**APPOINTMENTS SCHEDULED FOR: 02-02-2021**

APPOINTMENT ID	TIME	SERVICE	MECHANIC	PAID	CUSTOMER ID
#A013	12:00-13:00	BRAKE PAD REPLACEMENT	HAROUN ALI	YES	#C05

**CORPORATE TAX CALCULATOR**

TAX PERCENTAGE (%)

TOTAL REVENUE

TOTAL COST

RESULT

 [VIEW FEBRUARY REPORT](#)

 [DOWNLOAD FEBRUARY REPORT](#)

| [HOME](#) | [SERVICES](#) | [CONTACT US](#) |

[f](#) [t](#) [g](#) [o](#)

**CHEEKO MOT CENTRE**

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## Code:

### Part 1 – Admin Confirmation (PIN Number To Access Account) –

```
1 <!doctype html>
2 <script>
3 var CheckForPin = localStorage.getItem("AdminPinNumber");
4 var Reference = document.referrer;
5 if(Reference == "http://localhost/ComputerScienceNEA/Home" || Reference == "http://localhost/ComputerScienceNEA/ContactUs" ||
6 Reference == "http://localhost/ComputerScienceNEA/Services" || Reference == "http://localhost/ComputerScienceNEA/AdminAccount" ||
7 Reference == "http://localhost/ComputerScienceNEA/AdminConfirmation" || Reference == "http://localhost/ComputerScienceNEA/Home?Status=LoggedOutSuccessfully" ||
8 Reference == "" || Reference == "http://localhost/ComputerScienceNEA/Account" || Reference == "http://localhost/ComputerScienceNEA/Login") && CheckForPin == "Valid Pin"){
9     window.location.href = "AdminAccount";
10 }
11 </script>
12 <?php
13 session_start();
14 if(!isset($_SESSION["AdminDetails"])){
15     header("Location: Login");
16 } ?>
17 <html>
18 <head>
19 <meta charset="utf-8">
20 <title>Admin Confirmation - Cheeko MOT Centre</title>
21 <link href="CSS/AdminAccount.css" rel="stylesheet" type="text/css">
22 </head>
23 <body style="background: #12A4D6;">
24 <div class="PasswordBox">
25     <h1>ENTER ADMIN PIN</h1><hr>
26     <div class="ErrorBox" id="ErrorBox">
27         <div class="ErrorMessage">
28             <p style="margin-bottom: -1.25px;" id="Errors"></p>
29             <p id="Attempts"></p>
30         </div>
31     </div>
32     <div class="CheckPin">
33         <input name="PinNumber" id="PinNumber" type="password" onFocus="ChangeColour(this)" onBlur="ChangeColourBack(this)" maxLength="6">
34         <button type="submit" name="SubmitPinNumber" onClick="PinCheck(this)">ENTER ACCOUNT</button>
35     </div>
36 </div>
37 </body>
38 <script>
39 var AttemptRemaining = 5;
40 var Timer = 60;
41 var Attempts = document.getElementById("Attempts");
42 var Errors = document.getElementById("Errors");
43 /* Through JavaScript, I Am Able To Create A System Where The Admin Must Enter A PIN Number Before They Can Access Their Account As An Extra Layer Of Security And
44 Once They Have Made 5 Invalid Attempts, They Are Unable To Make Any More Attempts For 60 Seconds As They Are Locked From Typing Or Submitting As I Have Created 2
45 Functions Where One Is Nested Within The Other. If Valid, The Admin is Redirected To Their Account And An Item Is Inserted In The LocalStorage To Signify That The
46 Admin Has Inserted The Correct PIN */
47 function PinCheck(X){
48     var PinNumber = X.previousElementSibling.value;
49     //Checks If Pin Is Valid Before Inserting In The Local Storage
50     if(PinNumber == "098765"){
51         localStorage.setItem("AdminPinNumber", "Valid Pin");
52         window.location.href = "AdminAccount";
53         return false;
54     } else {
55         AttemptRemaining--;
56         document.getElementById("ErrorBox").style.display = "block";
57         Errors.innerHTML = "Invalid Admin Account Pin Number";
58         Attempts.innerHTML = "Attempts Remaining: "+AttemptRemaining;
59         X.previousElementSibling.style.borderColor = "red";
60     }
61     if(AttemptRemaining == 0){
62         X.disabled = true;
63         X.style.cursor = "default";
64         X.previousElementSibling.disabled = true;
65         var TimerID = setInterval(CountDown, 1000);
66     }
67 }
68 //Counts Down From 60 To 0
69 function CountDown(){
70     if(Timer == -1){
71         window.location.href = "AdminConfirmation";
72     } else {
73         Errors.innerHTML = "Your Account Has Been Locked For 60 Seconds";
74         Attempts.innerHTML = "Seconds Remaining: "+ Timer;
75         Timer--;
76     }
77 }
78 //Changes Border Colour When Input Box Is Clicked On/Off
79 function ChangeColour(X){
80     X.style.borderColor = "lightgreen";
81 }
82 function ChangeColourBack(X){
83     X.style.borderColor = "lightgray";
84 }
85 </script>
86 </html>
```

## Part 2 – Admin Account –

```
1 <!doctype html>
2 <script>
3 var CheckForPin = localStorage.getItem("AdminPinNumber");
4 var Reference = document.referrer;
5 if(Reference == "http://localhost/ComputerScienceNEA/AdminConfirmation" && CheckForPin == "Valid Pin"){
6     window.location.href = "AdminAccount";
7     localStorage.setItem("AdminPinNumber", "Valid Pin");
8 }
9 else {
10     if(Reference == "" || CheckForPin == null){
11         //Prevent The Admin From Entering the Account Without Successfully Entering The Admin PIN
12         window.location.href = "AdminConfirmation";
13     }
14 }
15 </script>
16 <?php
17 session_start();
18 error_reporting(8);
19 include("ConnectLoginSignupToMySQL.php");
20 //Redirect The Admin Back To The Login page if They Haven't Logged In Already
21 if(!isset($_SESSION["AdminDetails"])){
22     header("Location: Login");
23 }
24 $Today = date("Y-m-d");
25 $FullMonth = strftime(date("F"));
26 //Find The Mechanics That Have Worked The Most Hours Using The SQL Function SUM And Group The Mechanics By Their Name
27 $MostHoursWorkedMechanic = mysqli_query($conn, "SELECT TotalHoursWorked, FullName FROM mechanics GROUP BY FullName ORDER BY SUM(TotalHoursWorked) DESC LIMIT 3");
28 //Find The Total Revenue in The Current Month Through SQL Function SUM And MONTH
29 $CurrentMonthTotalRevenue = mysqli_fetch_array(mysqli_query($conn, "SELECT SUM(TotalPrice) FROM appointmentdetails WHERE MONTH('$Today') = MONTH(AppointmentDate)"));
30 //Find The Average Revenue in The Current Month Through SQL Function AVG And MONTH
31 $CurrentMonthAverageRevenue = mysqli_fetch_array(mysqli_query($conn, "SELECT AVG(TotalPrice) FROM appointmentdetails WHERE MONTH('$Today') = MONTH(AppointmentDate)"));
32 //Find The Most Commonly Booked Service At The MOT Centre In The Current Month Using SQL Function COUNT And MONTH
33 $MostCommonServiceOfMonth = mysqli_fetch_array(mysqli_query($conn, "SELECT ServiceID, COUNT(ServiceID) FROM appointmentdetails WHERE MONTH('$Today') = MONTH(AppointmentDate) GROUP BY ServiceID ORDER BY COUNT(ServiceID) DESC LIMIT 1"));
34 $ServiceIDCommonAppointment = $MostCommonServiceOfMonth["ServiceID"];
35 $ServiceNameCommonAppointment = mysqli_fetch_array(mysqli_query($conn, "SELECT ServiceName FROM services WHERE ServiceID = '$ServiceIDCommonAppointment'"));
36 ?>
37 <html>
38 <head>
39 <meta charset="utf-8">
40 <title>Admin Account : Cheeko MOT Centre</title>
41 <link href="CSS/AdminAccount.css" rel="stylesheet" type="text/css">
42 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
43 </head>
44 <body style="overflow-x: hidden;">
45 <div class="HomeLayout">
46 
47 <nav>
48     <ul>
49         <li><a class="HoverFirst" href="CustomerDetails">CUSTOMER DETAILS</a></li>
50         <li><a class="Hover" href="ServiceDetails">SERVICES AND PRICES</a></li>
51         <li><a class="Hover" href="StaffDetails">MECHANIC DETAILS</a></li>
52         <li><a class="Logout" href="AdminLogout">LOGOUT</a></li>
53     </ul>
54 </nav>
55 <div class="WelcomeMessage"><?php echo "Welcome to your Account, <br> Admin" ?></div>
56 <div class="AppointmentTable" id="object">
57 <?php
58 //Get The Details For All The Appointments Booked In The Current Month
59 $AppointmentsInCurrentMonth = mysqli_query($conn, "SELECT * FROM appointmentdetails WHERE MONTH('$Today') = MONTH(AppointmentDate)");
60 ?>
61 <h3>APPOINTMENTS BOOKED IN <?php echo $FullMonth?></h3>
62 <table>
63     <thead>
64         <tr>
65             <th>Appointment ID</th>
66             <th>Date</th>
67             <th>Service</th>
68             <th>Paid</th>
69             <th>Price</th>
70             <th>Customer ID</th>
71         </tr>
72     </thead>
73     <tbody>
74         <?php
75             while($Row = mysqli_fetch_assoc($AppointmentsInCurrentMonth)){
76                 //Display The Appointment Details For All The Appointments Booked In The Current Month
77                 $ServiceID = $Row["ServiceID"];
78                 $ServiceName = mysqli_fetch_array(mysqli_query($conn, "SELECT ServiceName FROM services WHERE ServiceID = '$ServiceID'"));
79             ?>
80             <tr>
81                 <td>#&#09<?php echo $Row["AppointmentID"] ?></td>
82                 <td><?php echo (date("d-m-Y", strtotime($Row["AppointmentDate"]))) ?></td>
83                 <td><?php echo $ServiceName["ServiceName"] ?></td>
84                 <?php
85                     if($Row["Paid"] == "1"){
86                         echo "<td>YES</td>";
87                     } else {
88                         echo "<td>NO</td>";
89                     }
90                 ?>
91                 <td><?php echo $Row["TotalPrice"] ?></td>
92                 <td>&#09<?php echo $Row["CustomerID"] ?></td>
93             </tr>
94         <?php } ?>
95         <tr>
96             <td></td>
97             <td></td>
98             <td style="width:300px; font-size: 11.375px; letter-spacing: 2.25px;">
99                 TOTAL REVENUE IN <?php echo $FullMonth; ?> $CurrentMonthTotalRevenue["SUM(TotalPrice)"] ?></td>
100             <td></td>
101             <td></td>
102             <td></td>
103         </tr>
104     </tbody>
105 </table>
106 </div>
107 <div class="Statistics">
108     <div class="StatisticsContainer"><br>
109         <h5>TOTAL REVENUE IN <?php echo $FullMonth ?></h5>
110         <?php
111             if($CurrentMonthTotalRevenue["SUM(TotalPrice)"]==null){ ?>
112                 <p>£0.00</p>
113             <?php } else { ?>
114                 <p>£<?php echo $CurrentMonthTotalRevenue["SUM(TotalPrice)"] ?></p>
115             <?php ?><br>
116             <h5>AVERAGE REVENUE IN <?php echo $FullMonth ?></h5>
117             <?php
118                 if($CurrentMonthAverageRevenue["AVG(TotalPrice)"]==null){ ?>
```

```

120             <p>£0.00</p>
121         <?php } else { ?>
122             <p>£?php echo number_format((float)$CurrentMonthAverageRevenue["AVG(TotalPrice)"],2,",","") ?></p>
123         <?php } ?><br>
124         <h5 style="margin-bottom: -17.5px;">MECHANIC RANKINGS</h5>
125         <small>(ORDER BY HOURS WORKED)</small><p style="margin-bottom: -3.75px;"></p>
126         <?php
127             $Count = 1;
128             while($Row = mysqli_fetch_assoc($MostHoursWorkedMechanic)){
129                 $TotalHoursWorked = number_format((float)$Row["SUM(TotalHoursWorked)"], 2, ',', '');
130                 list($Hour,$MInute) = explode(".", $TotalHoursWorked);
131                 $MInute = ($MInute / 100);
132                 $MInute = round($MInute * 60);
133             }
134             <p style="font-size: 11.75px; padding-bottom: 1.125px;"><?php echo("$Count.".strtoupper($Row["FullName"])." : ".$Hour." HRS ".$MInute." MINS") ?></p>
135             <?php $Count++; ?><br style="margin-top: 20px;">
136             <h5 style="font-size: 12.25px; margin-top: 10px; font-size: 12.875px; padding-bottom: 25px;">MOST COMMON SERVICE IN <?php echo $FullMonth ?></h5>
137             <?php
138                 if($ServiceNameCommonAppointment["ServiceName"] != null){ ?>
139                     <p style="font-size: 12.875px;"><?php echo strtoupper($ServiceNameCommonAppointment["ServiceName"]) ?></p>
140                     <p style="margin-top: -10px; font-size: 12.875px; padding-bottom: 25px;">TIMES BOOKED: <?php echo $MostCommonServiceOfMonth["COUNT(ServiceID)"] ?></p>
141                 } else { ?>
142                     <p style="font-size: 12.875px; margin-top: -10px; font-size: 12.875px; padding-bottom: 25px;">TIMES BOOKED: NONE</p>
143                     <?php } ?>
144             </div>
145         </div>
146         <!-- Create A Corporate Tax Calculator To Display The Amount Of Tax Needs Paying Based On The MOT Centres Profit -->
147         <div class="TaxCalculator">
148             <div class="CorporateTax">
149                 <h4>CORPORATE TAX CALCULATOR</h4>
150                 <input type="number" placeholder="TAX PERCENTAGE (%)" id="TaxRate">
151                 <input type="number" placeholder="TOTAL REVENUE" id="TotalRevenue">
152                 <input type="number" placeholder="TOTAL COST" id="TotalCost">
153                 <input type="text" placeholder="RESULT" readonly="true" id="Result">
154             </div>
155         </div>
156         <div class="Schedule">
157             <?php
158                 //Select The Appointment And Service Details For All Appointments Scheduled For The Current Day By Joining The Appointment Details And Services Table
159                 $TodayAppointments = mysqli_query($Conn, "SELECT appointmentdetails.AppointmentID, appointmentdetails.AppointmentStartTime, appointmentdetails.AppointmentEndTime,
160                 appointmentdetails.Paid, appointmentdetails.CustomerID, services.ServiceName FROM appointmentdetails LEFT JOIN services ON appointmentdetails.ServiceID =
161                 services.ServiceID WHERE AppointmentDate = '$Today'"); ?>
162                 $Today = date("d-m-Y", strtotime($Today));
163             <?>
164             <h3>APPOINTMENTS SCHEDULED FOR: <?php echo $Today ?></h3>
165             <table>
166                 <tr>
167                     <th>APPOINTMENT ID</th>
168                     <th>TIME</th>
169                     <th>SERVICES</th>
170                     <th>MECHANIC</th>
171                     <th>PAID</th>
172                     <th>CUSTOMER ID</th>
173                 </tr>
174             <?php
175                 while($Row = mysqli_fetch_assoc($TodayAppointments)){
176                     $TodayAppointmentID = $Row["AppointmentID"];
177                     //Find The Mechanic Allocated To An Appointment Scheduled For The Current Day
178                     $MechanicName = mysqli_fetch_array(mysqli_query($Conn, "SELECT mechanics.FullName FROM mechanics INNER JOIN mechanics_on_appointment ON mechanics.MechanicID =
179                     mechanics_on_appointment.MechanicID WHERE mechanics_on_appointment.AppointmentID = '$TodayAppointmentID'"));
180                     <tr>
181                         <td>#AB<?php echo $Row["AppointmentID"] ?></td>
182                         <td><?php echo $Row["AppointmentStartTime"]."-".$Row["AppointmentEndTime"] ?></td>
183                         <td><?php echo $Row["ServiceName"] ?></td>
184                         <td><?php echo $MechanicName["FullName"] ?></td>
185                     </tr>
186                 <?php
187                     if($Row["Paid"] == "0"){
188                         <td>NO</td>
189                     } else {
190                         <td>YES</td>
191                     }
192                     <td>#CB<?php echo $Row["CustomerID"] ?></td>
193                 </tr>
194             <?php } ?>
195         </table>
196     </div>
197     <div class="RedirectToReport">
198         <!-- Buttons That Allow The Admin To View And Download The MOT Centres Report For The Current Month -->
199         <a href="ManagerReport" style="width: 100px !important;"><i class="fa fa-eye"></i> VIEW <?php echo $FullMonth ?> REPORT</a>
200         <a href="ManagerReport" download="ManagerReport.pdf"><i class="fa fa-download"></i> DOWNLOAD <?php echo $FullMonth ?> REPORT</a>
201     </div>
202     </div>
203     </body>
204     <?php include("AccountFooter.php") ?>
205     <script>
206         var CorporateTaxRate = document.getElementById('TaxRate');
207         var TotalRevenue = document.getElementById('TotalRevenue');
208         var TotalCost = document.getElementById('TotalCost');
209         var Result = document.getElementById('Result');
210         CorporateTaxRate.addEventListener('input', CorporateTaxCalculator);
211         TotalRevenue.addEventListener('input', CorporateTaxCalculator);
212         TotalCost.addEventListener('input', CorporateTaxCalculator);
213         //Function To Calculate The Corporate Tax With The Result Being Outputted As The Admin Types
214         function CorporateTaxCalculator(){
215             var Profit = TotalRevenue.value - TotalCost.value;
216             var TaxDue = ((CorporateTaxRate.value)/100) * Profit;
217             if(TaxDue < 0){
218                 Result.value = "£0";
219             } else {
220                 Result.value = "£"+Math.round(TaxDue * 100)/100;
221             }
222         }
223     </script>
224 </html>

```

## 20. Customer Details

Screenshot:

CUSTOMER DETAILS					
CUSTOMER ID	FULL NAME	USERNAME	EMAIL	PHONE NUMBER	DELETE
#C03	RAO KHALEEQ UR REHMAN	RAOKHALEEQ	RAOKHALEEQ@YAHOO.COM	07403100586	<button>DELETE</button>
#C04	RAO ALI HASAN	S1900762	S1900762@LEYTON.AC.UK	07305758674	<button>DELETE</button>
#C05	STEVE SMITH	STEVE_2021	STEVE.SMITH2021@YAHOO.COM	07406711876	<button>DELETE</button>
#C06	ALI HASAN	ALI_HASANI	ALIRAO2880@GMAIL.COM	07305758674	<button>DELETE</button>

Code:

```

1  <!doctype html>
2  <script>
3  var CheckForPin = localStorage.getItem("AdminPinNumber");
4  var Reference = document.referrer;
5  if(CheckForPin == "Valid Pin"){
6      localStorage.setItem("AdminPinNumber", "Valid Pin");
7  }
8  else {
9      if(CheckForPin == null || Reference == "http://localhost/ComputerScienceNEA/AdminAccount" ||
10         Reference == "http://localhost/ComputerScienceNEA/StaffDetails" ||
11         Reference == "http://localhost/ComputerScienceNEA/ServiceDetails"){
12             //Prevent The Admin Access To This Page Without Entering the Admin PIN Number
13             window.location.href = "AdminConfirmation";
14         }
15     }
16 }
17 </script>
18 <?php
19 session_start();
20 include("ConnectLoginSignupToMySQL.php");
21 if(!isset($_SESSION["AdminDetails"])){
22     header("Location: Login");
23 }
24 $Delete = 0;
25 if(isset($_POST["DeleteCustomer"])){
26     $Delete = 1;
27     $_SESSION["DeleteCustomerID"] = $_POST["DeleteCustomer"];
28 }
29 if(isset($_POST["Delete"])){
30     $ID = $_SESSION["DeleteCustomerID"];
31     //Delete The Customers Details And All Their Associated Records From The Database
32     mysqli_query($Conn, "DELETE FROM customerdetails WHERE CustomerID = '$ID'");
33     mysqli_query($Conn, "ALTER TABLE customerdetails AUTO_INCREMENT = 1");
34     unset($_SESSION["DeleteCustomerID"]);
35 }
36 if(isset($_POST["Cancel"])){
37     unset($_SESSION["DeleteCustomerID"]);
38 } ?>
39 <html>
40 <head>
41 <meta charset="utf-8">
42 <title>Customer Details : Cheeko MOT Centre</title>
43 <link href="CSS/AdminAccount.css" rel="stylesheet" type="text/css">
44 </head>

```

```

45 <body style="overflow: hidden;">
46 <div id="DeleteDetails" class="MessageBox" style="display: block;">
47     <div class="MessageContainer">
48         <div class="MessageHeader">
49             <h2 style="letter-spacing: 10px;">DELETE CUSTOMER DETAILS</h2><hr>
50         </div>
51         <div class="MessageText">
52             <p>ARE YOU SURE YOU WANT TO DELETE THE CUSTOMERS DETAILS?</p>
53         </div>
54         <div class="MessageFooter"><hr>
55             <form method="post">
56                 <button name="Delete" type="submit">YES</button>
57                 <button name="Cancel" type="submit">NO</button>
58             </form>
59         </div>
60     </div>
61 </div>
62 <div class="HomeLayout">
63     
64     <nav>
65         <ul>
66             <li><a class="HoverFirst" href="AdminAccount">ACCOUNT</a></li>
67             <li><a class="Hover" href="ServiceDetails">SERVICES AND PRICES</a></li>
68             <li><a class="Hover" href="StaffDetails">STAFF DETAILS</a></li>
69             <li><a class="Logout" href="AdminLogout">LOGOUT</a></li>
70         </ul>
71     </nav>
72     <div class="CustomerDetails">
73         <h3>CUSTOMER DETAILS</h3>
74         <table>
75             <thead>
76                 <tr>
77                     <th>CUSTOMER ID</th>
78                     <th>FULL NAME</th>
79                     <th>USERNAME</th>
80                     <th>EMAIL</th>
81                     <th>PHONE NUMBER</th>
82                     <th>DELETE</th>
83                 </tr>
84             </thead>
85             <tbody>
86                 <tr>
87                     // Get The Details Of All The Customers That Have Registered An Account At The MOT Centre Except The Admins Account To Prevent The Admin from Deleting
88                     // Their Own Account
89                     $CustomerDetails = mysqli_query($Conn, "SELECT * FROM customerdetails WHERE CustomerID > 1");
90                     while($Row = mysqli_fetch_assoc($CustomerDetails)){
91                         // Display The Details Of All the Customers Registered At the MOT Centre ?
92                         <td>#C8<?php echo $Row["CustomerID"] ?></td>
93                         <td><?php echo $Row["FirstName"]. " " . $Row["LastName"] ?></td>
94                         <td><?php echo $Row["Username"] ?></td>
95                         <td><?php echo $Row["Email"] ?></td>
96                         <td><?php echo $Row["PhoneNumber"] ?></td>
97                         <td><form method="post"><button type="submit" value="<?php echo $Row["CustomerID"] ?>" name="DeleteCustomer">DELETE</button></form></td>
98                     </tr>
99                 <?php } ?>
100             </tbody>
101         </table>
102     </div>
103     <div class="CustomerStatistics">
104         <h5>CUSTOMER RANKINGS</h5><small>(ORDER BY APPOINTMENTS BOOKED)</small>
105         <?php
106             $Count = 0;
107             //Find The Customers That Have Booked The Most Appointments At The MOT Centre By Joining The
108             $CustomerRankings = mysqli_query($Conn, "SELECT COUNT(appointmentdetails.AppointmentID) AS Total, customerdetails.FirstName, customerdetails.LastName FROM
109             customerdetails INNER JOIN appointmentdetails ON customerdetails.CustomerID = appointmentdetails.CustomerID GROUP BY customerdetails.CustomerID ORDER BY
110             Total DESC LIMIT 3");
111             while($Row = mysqli_fetch_assoc($CustomerRankings)){
112                 $Count += 1;
113                 <p><?php echo $Count." ".strtoupper($Row["FirstName"]). " ".strtoupper($Row["LastName"]). " : ".$Row["Total"]." BOOKED" ?></p>
114             <?php } ?>
115         </div>
116         <?php include("AccountFooter.php"); ?>
117         <script>
118             var Delete = <?php echo json_encode($Delete, JSON_HEX_TAG); ?>;
119             //Display The Delete Confirmation Message When The Admin Presses The Delete Button
120             var DeleteDetails = document.getElementById("DeleteDetails");
121             if(Delete == 1){
122                 DeleteDetails.style.display = "block";
123             } else {
124                 DeleteDetails.style.display = "none";
125             }
126         </script>

```

## 21. Services And Prices

Screenshot:

The screenshot shows a website for 'CHEEKO MOT CENTRE' located at 431 Ilford Lane, IG1 2PG. The top navigation bar includes a logo, the company name in large red letters, and the address. The left sidebar has links for 'ACCOUNT', 'CUSTOMER DETAILS', 'MECHANIC DETAILS', 'LOGOUT', and a form to 'ADD NEW SERVICE' with fields for 'Name', 'Duration (Minutes)', and 'Price (£)'. The main content area is titled 'SERVICE DETAILS' and lists five services with their details:

SERVICE ID	NAME	PRICE	DURATION (IN MINUTES)	REMOVE
#S01	MOT (MOTORCYCLE)	£40	45	<button>REMOVE</button>
#S02	MOT (CARS)	£50	60	<button>REMOVE</button>
#S03	ENGINE OIL AND FILTER CHANGE	£50	45	<button>REMOVE</button>
#S04	DIAGNOSTIC CHECK	£80	40	<button>REMOVE</button>
#S05	INTERIM SERVICE	£100	60	<button>REMOVE</button>

Below the table are social media icons for Facebook, Twitter, Google+, and Instagram. The footer contains a navigation bar with 'HOME', 'SERVICES', and 'CONTACT US', and a copyright notice: '© 2021 CHEEKO MOT CENTRE. Registered in England, 431 Ilford Lane, Ilford, IG1 2PG. VTS Site Number: S000239'.

Code:

```

1  <!doctype html>
2  <script>
3  var CheckForPin = localStorage.getItem("AdminPinNumber");
4  var Reference = document.referrer;
5  if(CheckForPin == "Valid Pin"){
6      localStorage.setItem("AdminPinNumber", "Valid Pin");
7  }
8  else {
9      if(CheckForPin == null || Reference == "http://localhost/ComputerScienceNEA/CustomerDetails" ||
10         Reference == "http://localhost/ComputerScienceNEA/AdminAccount" || Reference == "http://localhost/ComputerScienceNEA/StaffDetails" ||
11         Reference == "http://localhost/ComputerScienceNEA/ServiceDetails"){
12             //Prevent The Admin From Accessing This Page Without Entering The Admin PIN
13             window.location.href = "AdminConfirmation";
14         }
15     }
16 </script>
17 <?php
18 session_start();
19 //PHP Function Created To Clean User Input Before Inserting Data Inside Of the Database
20 function Fix_Input($data){
21     $data=trim($data);//Removes any spaces at the beginning or end of data
22     $data=stripslashes($data);//Removes any quotation marks in the data
23     $data=htmlentities($data);//Converts special characters to HTML values
24     return $data;
25 }
26 include("ConnectLogInSignUpToMySQL.php");
27 if(!isset($_SESSION["AdminDetails"])){
28     header("Location: Login");
29 }
30 $Error1 = $Error2 = $Error3 = $Add = $Remove = 0;
31 $ServiceName = $Duration = $Price = "";
32 if(isset($_POST["AddService"])){
33     if(empty($_POST["Name"])){
34         $Error1 = 1;
35     } else {
36         $ServiceName = Fix_Input($_POST["Name"]);
37         //Check If The Service Name Contains Any Numbers Or Special Characters
38         if(!preg_match("/^([a-zA-Z ]*$/,$ServiceName)){
39             $Error1 = 2;
40         } else {
41             //Check If There Is Already An Existing Service With The Inputted Service Name
42             if(mysqli_num_rows(mysqli_query($conn, "SELECT * FROM services WHERE ServiceName = '$ServiceName' LIMIT 1")) > 0){
43                 $Error2 = 3;
44             }
45         }
46     }
47     if(empty($_POST["Duration"])){
48         $Error2 = 1;
49     } else {
50         $Duration = Fix_Input($_POST["Duration"]);
51         //Check If The Service Duration Is A Numeric Value
52         if(!is_numeric($Duration)){
53             $Error2 = 3;
54         } else {
55             //Check If The Service Duration Is A Negative Value
56             if($Duration <= 0){
57                 $Error2 = 2;
58             }
59         }
60     }
61 }
62 if($Error1 > 0 || $Error2 > 0 || $Error3 > 0){
63     echo "There Is An Error With Your Input. Please Check The Form Below And Try Again.";
64 }
65 else {
66     $sql = "INSERT INTO services (ServiceName, Duration, Price) VALUES ('$ServiceName', '$Duration', '$Price')";
67     if(mysqli_query($conn, $sql)){
68         echo "Service Added Successfully!";
69     } else {
70         echo "There Was An Error Adding The Service. Please Try Again.";
71     }
72 }
73 }
74 
```

```

61
62     if(empty($_POST["Price"])){
63         $Error3 = 1;
64     } else {
65         $Price = Fix_Input($_POST["Price"]);
66         //Check If The Service Price Is A Numeric Value
67         if(!is_numeric($Price)){
68             $Error3 = 3;
69         } else {
70             //Check If The Service Price Is A Negative Value
71             if($Price < 0){
72                 $Error3 = 2;
73             }
74         }
75     }
76     if($Error1 == 0 && $Error2 == 0 && $Error3 == 0){
77         //SQL Query To Insert The Service Into The Services Table In The Database If No Errors Are Present In The Form
78         mysqli_query($Conn, "INSERT INTO `services`(`ServiceName`, `ServicePrice`, `Duration`) VALUES ('$ServiceName', '$Price', '$Duration')");
79         $ServiceName = $Duration = $Price = "";
80         $Add = 1;
81     }
82     if(isset($_POST["DeleteService"])){
83         $DeleteService = $_POST["DeleteService"];
84         //SQL Query To Delete A Service From The Services Table When The Remove Button Is Clicked By The Admin
85         mysqli_query($Conn, "DELETE FROM services WHERE ServiceID = '$DeleteService'");
86         mysqli_query($Conn, "ALTER TABLE services AUTO_INCREMENT = 1");
87         $Remove = 1;
88     }
89     if(isset($_POST["Inserted"])){
90         $Add = 0;
91     }
92     if(isset($_POST["Remove"])){
93         $Remove = 0;
94     }
95     ?>
96     <html>
97     <head>
98         <meta charset="utf-8">
99         <title>Service Details - Cheeko MOT Centre</title>
100        <link href="CSS/AdminAccount.css" rel="stylesheet" type="text/css">
101    </head>
102    <body style="overflow: hidden;">
103        <div id="AddDetails" class="MessageBox" style="left: -6.5px;">
104            <div class="MessageContainer">
105                <div class="MessageHeader">
106                    <h2 style="letter-spacing: 11.25px;">SERVICES</h2><hr>
107                <div class="MessageText" style="margin-top: 20px;">
108                    <p style="color: #1F8436;">THE NEW SERVICE HAS SUCCESSFULLY BEEN INSERTED</p>
109                </div>
110                <div class="MessageFooter" style="margin-top: 31.875px;"><hr>
111                    <form method="post">
112                        <button name="Inserted" type="submit">CLOSE</button>
113                    </form>
114                </div>
115            </div>
116        <div id="RemoveDetails" class="MessageBox" style="left: 0;">
117            <div class="MessageContainer">
118                <div class="MessageHeader">
119                    <h2 style="letter-spacing: 11.25px;">SERVICES</h2><hr>
120                <div class="MessageText" style="margin-top: 20px;">
121                    <p style="color: #75141D;">THE SERVICE HAS SUCCESSFULLY BEEN DELETED</p>
122                </div>
123                <div class="MessageFooter" style="margin-top: 31.875px;"><hr>
124                    <form method="post">
125                        <button name="Remove" type="submit">CLOSE</button>
126                    </form>
127                </div>
128            </div>
129        </div>
130    </div>
131    <div class="HomeLayout">
132        
133        <nav>
134            <ul>
135                <li><a class="HoverFirst" href="AdminAccount">ACCOUNT</a></li>
136                <li><a class="Hover" href="CustomerDetails">CUSTOMER DETAILS</a></li>
137                <li><a class="Hover" href="StaffDetails">MECHANIC DETAILS</a></li>
138                <li><a class="logout" href="AdminLogout">LOGOUT</a></li>
139            </ul>
140        </nav>
141        <div class="ServiceDetails">
142            <h3>SERVICE DETAILS</h3>
143            <table>
144                <tr>
145                    <th>SERVICE ID</th>
146                    <th>NAME</th>
147                    <th>PRICE</th>
148                    <th>DURATION<small>(IN MINUTES)</small></th>
149                    <th>REMOVE</th>
150                </tr>
151            <?php
152                // Get The Details Of All The Services Provided By The MOT Centre
153                $ServiceDetails = mysqli_query($Conn, "SELECT * FROM services");
154                while($Row = mysqli_fetch_assoc($ServiceDetails)){
155                    // Display The Details Of All The Service Provided At The MOT Centre ?
156                    <tr>
157                        <?php echo $Row["ServiceID"] ?><td>
158                            <?php echo $Row["ServiceName"] ?><td>
159                            <?php echo round($Row["ServicePrice"],2) ?><td>
160                            <?php echo $Row["Duration"] ?><td>
161                            <?php echo "<form method='post'><button type='submit' value='<?php echo $Row['ServiceID'] ?>' name='DeleteService'>REMOVE</button></form></td>" ?>
162                        </tr>
163                    <?php } ?>
164                </table>
165            </div>
166            <div class="AddService">
167                <h5>ADD NEW SERVICE</h5><hr>
168                <form method="post" spellcheck="false" novalidate>
169                    <input name="Name" type="text" maxlength="40" placeholder="Name" value="<?php echo $ServiceName ?>"/>
170                    <input name="Duration" type="text" placeholder="Duration (Minutes)" onKeyPress="if(this.value.length>3) return false;" value="<?php echo $Duration ?>"/>
171                    <input name="Price" type="text" placeholder="Price (E)" onKeyPress="if(this.value.length>3) return false;" value="<?php echo $Price ?>"/>
172                    <button name="AddService" type="submit">ADD SERVICE</button>
173                </form>
174            </div>
175            <div id="Error1" class="ErrorBubble" style="border: 1px solid #ccc; padding: 5px; border-radius: 5px; width: fit-content; margin-bottom: 10px;">
176                <?php echo $Row["ServiceID"] ?></div>
177            <div id="Error2" class="ErrorBubble" style="border: 1px solid #ccc; padding: 5px; border-radius: 5px; width: fit-content; margin-bottom: 10px;">
178                <?php echo $Row["ServiceName"] ?></div>
179            <div id="Error3" class="ErrorBubble" style="border: 1px solid #ccc; padding: 5px; border-radius: 5px; width: fit-content;">
180                <?php echo $Row["ServicePrice"] ?></div>
181        </div>
182        <?php include("AccountFooter.php") ?>
183    </html>
184    <script>
185        var Added = <?php echo json_encode($Add, JSON_HEX_TAG); ?>;
186        var AddDetails = document.getElementById("AddDetails");
187        var Removed = <?php echo json_encode($Remove, JSON_HEX_TAG); ?>;
188        var RemoveDetails = document.getElementById("RemoveDetails");
189        //Pass Values From PHP To JavaScript In Order To Identify Which Error Message To Display Depending On The Error That Has Occurred And The Errors Initially Remain Hidden
190        var ErrorExist1 = <?php echo json_encode($Error1, JSON_HEX_TAG); ?>;
191        var ErrorExist2 = <?php echo json_encode($Error2, JSON_HEX_TAG); ?>;
192        var ErrorExist3 = <?php echo json_encode($Error3, JSON_HEX_TAG); ?>;
193        var Error1 = document.getElementById("Error1");
194        var Error2 = document.getElementById("Error2");
195        var Text1 = document.getElementById("Text1");
196        var Text2 = document.getElementById("Text2");
197        var Text3 = document.getElementById("Text3");
198    </script>

```

```

198     if(Added == 1){
199         AddDetails.style.display = "block";
200     } else {
201         AddDetails.style.display = "none";
202     }
203     if(Removed == 1){
204         RemoveDetails.style.display = "block";
205     } else {
206         RemoveDetails.style.display = "none";
207     }
208     if(ErrorExist1 == 1){
209         Text1.innerHTML = "Service Name Is Required";
210         Error1.style.display = "block";
211     } else if(ErrorExist1 == 2){
212         Text1.innerHTML = "Service Name Cannot Contain Numbers Or Symbols";
213         Error1.style.display = "block";
214     } else if(ErrorExist1 == 3){
215         Text1.innerHTML = "A Service With This Name Already Exists";
216         Error1.style.display = "block";
217     } else {
218         Error1.style.display = "none";
219     }
220     if(ErrorExist2 == 1){
221         Text2.innerHTML = "Service Duration Is Required";
222         Error2.style.display = "block";
223     } else if(ErrorExist2 == 2){
224         Text2.innerHTML = "Service Duration Cannot Be Negative";
225         Error2.style.display = "block";
226     } else if(ErrorExist2 == 3){
227         Text2.innerHTML = "Please Enter A Number";
228         Error2.style.display = "block";
229     } else {
230         Error2.style.display = "none";
231     }
232     if(ErrorExist3 == 1){
233         Text3.innerHTML = "Service Price Is Required";
234         Error3.style.display = "block";
235     } else if(ErrorExist3 == 2){
236         Text3.innerHTML = "Service Price Cannot Be Negative";
237         Error3.style.display = "block";
238     } else if(ErrorExist3 == 3){
239         Text3.innerHTML = "Please Enter A Number";
240         Error3.style.display = "block";
241     } else {
242         Error3.style.display = "none";
243     }
244 }
245 </script>

```

## 22. Mechanic Details

Screenshot:

MECHANIC DETAILS		
NAME	TOTAL HOURS WORKED	DAY OF WEEK NOT WORKING
ARUN MAINI	1 HRS 30 MINS	MONDAY
CHRISTOPHER PALMER	0 HRS 0 MINS	FRIDAY
HAROUN ALI	1 HRS 30 MINS	THURSDAY
JONATHAN GREEN	0 HRS 0 MINS	THURSDAY
MATTHEW SMITH	7 HRS 50 MINS	WEDNESDAY
MUHAMMAD HUSSAIN	0 HRS 40 MINS	TUESDAY
SARFARAZ ANSAR	1 HRS 15 MINS	MONDAY
ZEESHAN ALI	0 HRS 45 MINS	SATURDAY

## Code:

```
1  <!doctype html>
2  <script>
3  var CheckForPin = localStorage.getItem("AdminPinNumber");
4  var Reference = document.referrer;
5  if(CheckForPin == "Valid Pin"){
6      localStorage.setItem("AdminPinNumber", "Valid Pin");
7  }
8  else {
9      if(CheckForPin == null || Reference == "http://localhost/ComputerScienceNEA/CustomerDetails" ||
10         Reference == "http://localhost/ComputerScienceNEA/AdminAccount" || Reference == "http://localhost/ComputerScienceNEA/StaffDetails" ||
11         Reference == "http://localhost/ComputerScienceNEA/ServiceDetails"){
12             //Prevent The Admin From Accessing This Page Without Entering The Admin PIN
13             window.location.href = "AdminConfirmation";
14         }
15     }
16 </script>
17 <?php
18 session_start();
19 //PHP Function Created To Clean User Input Before Inserting Data Inside Of The Database
20 function Fix_Input($Data){
21     $Data=trim($Data); //Removes any spaces at the beginning or end of data
22     $Data=stripslashes($Data); //Removes any quotation marks in the data
23     $Data=htmlspecialchars($Data); //Converts special characters to HTML values
24     return $Data;
25 }
26 include("ConnectLoginSignupMySQL.php");
27 $DayOfWeekNotWorking = $FullName = $MechanicType = "";
28 if(!isset($_SESSION["AdminDetails"])){
29     header("Location: LogIn");
30 }
31 $Error1 = $Error2 = $Error3 = $Add = 0;
32 if(isset($_POST["AddStaff"])){
33     if(empty($_POST["fullName"])){
34         $Error1 = 1;
35     } else {
36         $fullName = Fix_Input($_POST["fullName"]);
37         //Check If The Mechanics Name Contains Any Numbers Or Special Characters
38         if(!preg_match("/^[\u00a1-\u00d7A-Z ]$/",$fullName)){
39             $Error3 = 2;
40         }
41     }
42     if(empty($_POST["MechanicType"])){
43         $Error2 = 1;
44     } else {
45         $MechanicType = Fix_Input($_POST["MechanicType"]);
46     }
47     if(empty($_POST["DayOfWeekNotWorking"])){
48         $Error3 = 1;
49     } else {
50         $DayOfWeekNotWorking = Fix_Input($_POST["DayOfWeekNotWorking"]);
51     }
52     if($Error1 == 0 && $Error2 == 0 && $Error3 == 0){
53         //SQL Query To Insert The Mechanics Details Into The Database If No Errors Are Present In The Form
54         mysqli_query($conn, "INSERT INTO mechanics ('FullName', 'MechanicType', 'TotalHoursWorked', 'DayOfWeekNotWorking') VALUES
55         ('$fullName', '$MechanicType', '$DayOfWeekNotWorking')");
56         $Add = 1;
57     }
58 }
59 if(isset($_POST["Inserted"])){
60     $Add = 0;
61 }
62 <html>
63 <head>
64 <meta charset="utf-8">
65 <title>Mechanic Details - Cheeko MOT Centre</title>
66 <link href="CSS/AdminAccount.css" rel="stylesheet" type="text/css">
67 </head>
68 <body style="overflow: hidden;">
69     <div id="AddDetails" class="MessageBox">
70         <div class="MessageContainer">
71             <div class="MessageHeader">
72                 <h2 style="letter-spacing: 10.75px;">MECHANIC DETAILS</h2><hr>
73             </div>
74             <div class="MessageText" style="margin-top: 20px; padding: 15px 25px;">
75                 <p style="color: #1F843B;">THE NEW MECHANIC HAS SUCCESSFULLY BEEN INSERTED</p>
76             </div>
77             <div class="MessageFooter" style="margin-top: 31.875px;"><hr>
78                 <form method="post">
79                     <button name="Inserted" type="submit">CLOSE</button>
80                 </form>
81             </div>
82         </div>
83     </div>
84     <div class="HomeLayout">
85         
86         <nav>
87             <ul>
88                 <li><a class="HoverFirst" href="AdminAccount">ACCOUNT</a></li>
89                 <li><a class="Hover" href="CustomerDetails">CUSTOMER DETAILS</a></li>
90                 <li><a class="Hover" href="ServiceDetails">SERVICES AND PRICES</a></li>
91                 <li><a class="Logout" href="AdminLogout">LOGOUT</a></li>
92             </ul>
93         </nav>
94         <div class="ServiceDetails">
95             <h3>MECHANIC DETAILS</h3>
96             <table>
97                 <tr>
98                     <th>NAME</th>
99                     <th>TOTAL HOURS WORKED</th>
100                    <th>DAY OF WEEK NOT WORKING</th>
101                </tr>
102                <tr>
103                    <td>
104                        $days = array(1 => "Sunday", 2 => "Monday", 3 => "Tuesday", 4 => "Wednesday", 5 => "Thursday", 6 => "Friday", 7 => "Saturday");
105                        /* SQL Query To Find The Total Hours Worked By Each Mechanic By Finding The Sum Of The Time Spent By Mechanics Performing The Services They
106                        Specialise In Using PHP Function SUM And Order The Mechanics Details Alphabetically Based On Their Name */
107                        $MechanicDetails = mysqli_query($conn, "SELECT SUM(TotalHoursWorked) as TotalHours, FullName, DayOfWeekNotWorking FROM mechanics GROUP BY FullName
108                        ORDER BY FullName ASC");
109                        $ServiceType = mysqli_query($conn, "SELECT ServiceName FROM services");
110                        while($Row = mysqli_fetch_assoc($MechanicDetails)){
111                            $list($Hour,$Minute) = explode(".", $Row["TotalHours"]);
112                            $Minute = ($Minute / 100);
113                            $Minute = round($Minute * 60);
114                            <td><?php echo $Row["FullName"] ?></td>
115                            <td><?php echo $Hour." HRS ".$Minute." MINS" ?></td>
116                            <td><?php echo $Row["DayOfWeekNotWorking"] ?></td>
117                        </tr><?php ?>
118                    </table>
119                </div>
120                <div class="AddStaff">
121                    <h5>ADD NEW MECHANIC</h5><hr>
122                    <form method="post" spellcheck="false" novalidate>
```

```

123 <input name="FullName" type="text" maxlength="40" placeholder="Full Name" value="php echo $FullName ?&gt;"/&gt;
124 &lt;select name="MechanicType"&gt;
125   &lt;option selected disabled hidden&gt;Select Mechanic Type&lt;/option&gt;
126   &lt;?php while($Row = mysqli_fetch_assoc($ServiceType)) { ?&gt;
127     &lt;option value="&lt;?php echo $Row["ServiceName"] ?&gt;"<?php echo $Row["ServiceName"] ?></option><?php } ?>
128   </select>
129   <select name="DayOfWeekNotWorking">
130     <option selected disabled hidden>Day Of Week Not Working</option>
131     <option value="None">None</option>
132     <option value="1"><?php echo $days[2] ?></option>
133     <option value="2"><?php echo $days[3] ?></option>
134     <option value="3"><?php echo $days[4] ?></option>
135     <option value="4"><?php echo $days[5] ?></option>
136     <option value="5"><?php echo $days[6] ?></option>
137     <option value="6"><?php echo $days[7] ?></option>
138   </select>
139   <button name="AddStaff" type="submit">ADD MECHANIC</button>
140 </div>
141 </div>
142 <div style="margin-top: 48.75px" id="Error1" class="ErrorBubble"><p id="Text1"></p></div>
143 <div style="margin-top: 80.675px" id="Error2" class="ErrorBubble2"><p id="Text2"></p></div>
144 <div style="margin-top: 111.675px" id="Error3" class="ErrorBubble3"><p id="Text3"></p></div>
145 </div>
146 </body>
147 <?php include("AccountFooter.php") ?>
148 </html>
149 <script>
150 var Added = <?php echo json_encode($Add, JSON_HEX_TAG); ?>;
151 var AddDetails = document.getElementById("AddDetails");
152 //Pass Values From PHP To JavaScript In Order To Identify Which Error Message To Display Depending On The Error That Has Occured And The Errors Initially Remain Hidden
153 var ErrorExist1 = <?php echo json_encode($Error1, JSON_HEX_TAG); ?>;
154 var ErrorExist2 = <?php echo json_encode($Error2, JSON_HEX_TAG); ?>;
155 var ErrorExist3 = <?php echo json_encode($Error3, JSON_HEX_TAG); ?>;
156 var Error1 = document.getElementById("Error1");
157 var Error2 = document.getElementById("Error2");
158 var Error3 = document.getElementById("Error3");
159 var Text1 = document.getElementById("Text1");
160 var Text2 = document.getElementById("Text2");
161 var Text3 = document.getElementById("Text3");
162 if(Added == 1){
163   AddDetails.style.display = "block";
164 } else {
165   AddDetails.style.display = "none";
166 }
167 if(ErrorExist1 == 1){
168   Text1.innerHTML = "Mechanic Name Is Required";
169   Error1.style.display = "block";
170 } else if(ErrorExist1 == 2){
171   Text1.innerHTML = "Name Cannot Contain Numbers Or Symbols";
172   Error1.style.display = "block";
173 } else {
174   Error1.style.display = "none";
175 }
176 if(ErrorExist2 == 1){
177   Text2.innerHTML = "Mechanic Type Is Required";
178   Error2.style.display = "block";
179 } else {
180   Error2.style.display = "none";
181 }
182 if(ErrorExist3 == 1){
183   Text3.innerHTML = "Day Of Week Not Working Is Required";
184   Error3.style.display = "block";
185 }
186 else {
187   Error3.style.display = "none";
188 }
189 </script>

```

## CSS For 19-22:

```

1 import url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800&display=swap');
2 import url('https://fonts.googleapis.com/css2?family=Lato:ital,wght@0,100;0,300;0,400;0,700;1,100;1,300;1,400;1,700;1,900&family=Open+Sans:ital,wght@0,300;0,400;0,600;0,700;0,800;
3 import url('https://fonts.googleapis.com/css2?family=Rajdhani:wght@500;600;700&display=swap');
4 *
5   margin: 0;
6   padding: 0;
7   text-decoration: none;
8   font-family: 'Poppins', sans-serif;
9   list-style-type: none;
10 }
11 .WelcomeMessage{
12   font-family: 'Open Sans', sans-serif;
13   position: relative;
14   width: 886.75px;
15   height: 151.75px;
16   background-color: #fff;
17   text-align: center;
18   padding: 20px;
19   background: linear-gradient(to right, #001f3f, #003c7c, #001f3f);
20   font-size: 50px;
21   color: white;
22   font-weight: 800;
23   letter-spacing: 2.5px;
24   border-radius: 7.5px;
25 }
26 .Statistics{
27   position: absolute;
28   width: 350px;
29   height: auto;
30   background-color: #001f3f;
31   margin-left: 823.125px;
32   margin-top: 2.5px;
33   border: 2px solid #001f3f;
34   border-radius: 7.5px;
35 }
36 .Statistics .StatisticsContainer h5{
37   color: white;
38   text-align: center;
39   letter-spacing: 2.5px;
40   font-size: 15.125px;
41   padding: 10px 5px;
42   font-weight: 700;
43 }
44 .Statistics .StatisticsContainer p{
45   color: white;
46   text-align: center;
47   letter-spacing: 2.5px;
48   font-size: 15px;
49   font-weight: 600;
50   padding: 5px 5px 10px;
51 }
52 .Statistics .StatisticsContainer small{
53   color: white;
54   text-align: center;
55   letter-spacing: 1.075px;
56   font-size: 10px;
57   font-weight: 600;
58   margin-left: 80.875px;
59 }
60 .Statistics .StatisticsContainer hr{
61   margin: 5px 25px;
62   border: 1px solid #001f3f;
63   border-radius: 45px;
64   background: white;
65   border: none;
66 }
67 .TaxCalculator{
68   width: 350px;
69   height: 350px;
70   border: 2px solid #001f3f;
71   border-radius: 7.5px;
72   background: #001f3f;
73   position: absolute;
74   margin-left: 823.25px;
75   margin-top: 500px;
76   .TaxCalculator .CorporateTax{
77     width: 70%;
78     text-align: center;
79     position: relative;
80     display: block;
81     margin: 15px auto;
82   }
83   .TaxCalculator .CorporateTax input{
84     width: 70%;
85     text-align: center;
86     padding: 10px 20px;
87     margin: 7.5px 10px;
88     border-radius: 7.5px;
89     border: none;
90     outline: none;
91     font-size: 16.25px;
92     font-weight: 700;
93     letter-spacing: 1.25px;
94   }
95   .TaxCalculator .CorporateTax h4{
96     color: white;
97     letter-spacing: 2px;
98     font-size: 17.125px;
99     padding: 5px 20px;
100 }
101 .TaxCalculator .CorporateTax input::-webkit-outer-spin-button,
102 .TaxCalculator .CorporateTax input::-webkit-inner-spin-button{
103   display: none;
104   margin: 0;
105   ::placeholder{
106     color: #6b6b6b;
107   }
108   .PlaceholderBox{
109     top: 50%;
110     right: 50%;
111     transform: translate(-50%, -50%);
112     box-shadow: 1px 1px 150px 1px lightblue;
113     position: absolute;
114     margin: auto;
115     width: 10px;
116     height: auto;
117     background: white;
118     border-radius: 30px;
119     padding: 20px 12.5px;
120     animation-duration: 1s;
121     animation-name: Dropdown;
122   }
123   .PlaceholderBox h1{
124     margin-top: 5px;
125     text-align: center;
126     font-size: 3px;
127     letter-spacing: 4.275px;
128     font-weight: 700;
129   }

```

```
138 .PasswordBox hr{
139   margin: -2.5px 50px -23.675px;
140   height: 2.5px;
141   background: black;
142   border-radius: 40px;
143 }
144 .PasswordBox input[type="password"]{
145   font-size: 36px;
146   text-align: center;
147   position: relative;
148   display: block;
149   margin: 35px auto 75px;
150   padding: 15px 29.975px;
151   border: 2px solid lightgray;
152   letter-spacing: 2.5px;
153   outline: none;
154   border-radius: 10px;
155   border-radius: 0.75px;
156   background: linear-gradient(90deg, #2075CD 0%, #009C80 35%, #5D9C4A 100%);
157   margin: -14.125px auto 15px;
158   padding: 15px 85.675px;
159   border: 2px solid black;
160   letter-spacing: 3.125px;
161   outline: none;
162   font-weight: 600;
163 }
164 .PasswordBox button:hover{
165   background: linear-gradient(90deg, #2063AD 0%, #0087C0 35%, #38C78F 100%);
166 }
167 @keyframes Dropdown{
168   from{top: -50px; opacity: 0}
169   to{top: 50%; opacity: 1}
170 }
171 .ErrorBox{
172   display: none;
173   margin: 0 0 1.875px auto -75px;
174   width: 84.75px;
175   height: auto;
176   background-color: #F68480;
177   border-radius: 10px;
178   opacity: 0.875;
179   border: 2px solid darkred;
180 }
181 .ErrorMessage{
182   padding: 5px 3px;
183   text-align: center;
184   color: darkred;
185   margin: 0.5px 0.5px -5px;
186   font-size: 12.125px;
187   font-family: "Poppins", sans-serif;
188   letter-spacing: 1.125px;
189 }
190 .HomeLayout{
191   margin: 2px 75px;
192 }
193 .Logo{
194   margin: 0.25px 3px 15px 7.125px;
195   width: 97.575px;
196   height: 135px;
197   border-radius: 5.25px;
198 }
199 ul li a{
200   display: block;
201   color: white;
202   padding: 15px;
203   text-align: center;
204   font-size: 12.75px;
205   cursor: pointer;
206   font-weight: 600;
207   letter-spacing: 3.75px;
208 }
209 .AppointmentTable{
210   width: 212.875px;
211   margin: 2.5px 0 2.5px 6.75px;
212   border-radius: 7.5px;
213   position: absolute;
214   display: inline-block;
215   overflow-y: scroll;
216   height: 490.875px;
217 }
218 .AppointmentTable::-webkit-scrollbar{
219   width: 24.2px;
220   background-color: #0001F3F;
221   box-sizing: border-box;
222   border-radius: 50px;
223   margin-left: 6.75px;
224   margin-top: -20.375px;
225   border-radius: 7.5px;
226 }
227 .AppointmentTable::-webkit-scrollbar-thumb{
228   width: 13.5px;
229 }
230 .AppointmentTable::-webkit-scrollbar-thumb{
231   background: white;
232   border-radius: 7.5px;
233   border: 2px solid #0001F3F;
234 }
235 .AppointmentTable::-webkit-scrollbar-track{
236   border: 7.5px solid #0001F3F;
237   box-shadow: 0 0 5px rgba(0,0,0,0.25);
238   border-radius: 7.5px;
239 }
240 .AppointmentTable h3{
241   text-align: center;
242   padding: 12.5px 0;
243   font-size: 10px;
244   letter-spacing: 3.5px;
245   color: white;
246   border-radius: 7.5px;
247   background: #0001F3F;
248   margin-bottom: 0.75px;
249 }
250 .AppointmentTable table{
251   border-collapse: separate;
252   width: 180.875px;
253   text-transform: uppercase;
254   border-spacing: 0;
255 }
256 .AppointmentTable th{
257   padding: 15px 6.75px;
258   text-align: center;
259   font-size: 1.75px;
260   letter-spacing: 1.75px;
261   font-weight: 700;
262   background: #0001F3F;
263   color: white;
264 }
265 .AppointmentTable td:first-child{
266   border-left: 2.5px solid #0001F3F;
267 }
268 .AppointmentTable td:last-child{
269   border-right: 2.5px solid #0001F3F;
270 }
271 .AppointmentTable th:first-child{
272   border-top-left-radius: 7.5px;
273 }
274 .AppointmentTable th:last-child{
275   border-top-right-radius: 7.5px;
276 }
277 .AppointmentTable table tr:last-child td:first-child{
278   border-bottom-left-radius: 7.5px;
279 }
280 .AppointmentTable table tr:last-child td:last-child{
281   border-bottom-right-radius: 7.5px;
282 }
283 .AppointmentTable td{
284   letter-spacing: 1.5px;
285   text-align: center;
286   font-size: 10.875px;
287   padding: 9.25px 5px;
288   font-weight: 600;
289   border-bottom: 2px solid #0001F3F;
290 }
291 .AppointmentTable tr:nth-child(odd){
292   background: white;
293   color: #0001F3F;
294 }
295 .AppointmentTable tr:nth-child(even){
296   background: #0001F3F;
297   color: white;
298   border-bottom: 2px solid #0001F3F !important;
299 }
300 .Schedule{
301   width: 812.875px;
302   margin: 50px 0 2.5px 6.75px;
303   border-radius: 7.5px;
304   position: absolute;
305   display: inline-block;
306   height: 350px;
307 }
308 .Schedule h3{
309   text-align: center;
310   padding: 12.5px 0;
311   font-size: 20px;
312   letter-spacing: 3.5px;
313   color: white;
314   border-radius: 7.5px;
315   background: #0001F3F;
316   margin-bottom: 0.75px;
317 }
318 .Schedule table{
319   border-collapse: separate;
320   width: 186.675px;
321   text-transform: uppercase;
322   border-spacing: 0;
323 }
324 .Schedule th{
325   padding: 18px;
326   text-align: center;
327   font-size: 11.5px;
328   letter-spacing: 2.5px;
329   font-weight: 700;
330 }
331 .Schedule td:first-child{
332   border-left: 2.5px solid #0001F3F;
333 }
334 .Schedule td:last-child{
335   border-right: 2.5px solid #0001F3F;
336 }
337 .Schedule th:first-child{
338   border-top-left-radius: 7.5px;
339 }
340 .Schedule th:last-child{
341   border-top-right-radius: 7.5px;
342 }
343 .Schedule table tr:last-child td:first-child{
344   border-bottom-left-radius: 7.5px;
345 }
346 .Schedule table tr:last-child td:last-child{
347   border-bottom-right-radius: 7.5px;
348 }
349 .Schedule td{
350   letter-spacing: 1.5px;
351   text-align: center;
352   font-size: 10px;
353   padding: 9.75px;
354   font-weight: 600;
355   border-bottom: 2px solid #0001F3F;
356 }
357 .Schedule tr:nth-child(even){
358   background: white;
359   color: #0001F3F;
360 }
361 .Schedule tr:nth-child(odd){
362   background: #0001F3F;
363   color: white;
364   border-bottom: 2px solid #0001F3F !important;
365 }
366 .Hover:hover{
367   background-color: #001327;
368   transition: ease-in-out 0.35s;
369   display: block;
370 }
371 .HoverFirst:hover{
372   background-color: #001327;
373   transition: ease-in-out 0.35s;
374   display: block;
375   border-radius: 7.5px 7.5px 0 0;
376 }
377 .Logout{
378   background-color: #001327;
379   border-radius: 0 0 7.5px 7.5px;
380 }
381 .Logout:hover{
382   background-color: rgba(187,0,0,1.00);
383   transition: ease-in-out 0.35s;
384 }
385 .RedirectToReport{
386   margin: 80.5px 75px 1.5px 6.75px;
387   position: absolute;
388 }
389 .RedirectToReport a{
390   padding: 17.65px 90px;
391   background: #0001F3F;
392   border-radius: 7.5px;
393   letter-spacing: 1.5px;
394   font-size: 20px;
395   font-weight: 800;
396   color: white;
397   border: none;
398 }
399 .RedirectToReport .fa-eye, .RedirectToReport .fa-download{
400   border: none;
401 }
402 .RedirectToReport a:hover{
403   background: #001327;
404   transition: ease-in-out 0.35s;
405 }
406 .CustomerDetails{
407   width: 375px;
408   margin: -10.425px 0 2.5px 252.5px;
409   border-radius: 7.5px;
410   position: absolute;
411   display: inline-block;
412   overflow-y: scroll;
413   height: 375.875px;
414 }
415 .CustomerDetails h3{
416   text-align: center;
417   padding: 12.5px 0;
418   font-size: 22.5px;
419   letter-spacing: 5px;
420   color: white;
421   border-radius: 7.5px;
422   background: #0001F3F;
423   margin-bottom: 0.75px;
424 }
425 .CustomerDetails table{
426   border-collapse: separate;
427   width: 928.25px;
428   text-transform: uppercase;
429   border-spacing: 0;
430   margin-top: 1.25px;
431 }
432 .CustomerDetails th{
433   padding: 15px;
434   text-align: center;
435   font-size: 11.55px;
436   letter-spacing: 2.875px;
437   font-weight: 700;
438   background: #0001F3F;
439   color: white;
440 }
441 .CustomerDetails th:first-child{
442   border-left: 2.5px solid #0001F3F;
443 }
444 .CustomerDetails th:last-child{
445   border-right: 2.5px solid #0001F3F;
446 }
447 .CustomerDetails th:first-child{
448   border-top-left-radius: 7.5px;
449 }
450 .CustomerDetails th:last-child{
451   border-top-right-radius: 7.5px;
452 }
453 .CustomerDetails table tr:last-child td:first-child{
454   border-bottom-left-radius: 7.5px;
455 }
456 .CustomerDetails table tr:last-child td:last-child{
457   border-bottom-right-radius: 7.5px;
458 }
459 .CustomerDetails td{
460   letter-spacing: 1.5px;
461   text-align: center;
462   font-size: 11.75px;
463   padding: 9.25px;
464   font-weight: 600;
465   border-bottom: 2px solid #0001F3F;
466 }
467 .CustomerDetails tr:nth-child(odd){
468   background: #0001F3F;
469   color: white;
470 }
```

```

537 .CustomerStatistics hr{
538   width: 77.5px;
539   margin: 1.75px auto;
540   height: 1.25px;
541   border-radius: 40px;
542   background: white;
543 }
544 .AddService{
545   width: 1.75px 6.75px;
546   position: absolute;
547   width: 24.2px;
548   height: 18.75px;
549   background: #001F3F;
550   border-radius: 7.5px;
551 }
552 .AddServices h5{
553   font-family: 'Rajdhani', sans-serif;
554   text-align: center;
555   margin: 10px 0 5px;
556   font-size: 20px;
557   letter-spacing: 3.5px;
558   color: white;
559   font-weight: 700;
560 }
561 .AddService hr{
562   width: 77.5px;
563   margin: 1.25px 23.825px;
564   height: 2.5px;
565   border-radius: 40px;
566   background: white;
567 }
568 .AddService input{
569   font-family: 'Rajdhani', sans-serif;
570   font-size: 15px;
571   font-weight: 700;
572   text-align: center;
573   position: relative;
574   color: #001F3F;
575   margin: 2.5px 12.5px;
576   padding: 2.375px 22.5px;
577   border: 2px solid lightgray;
578   letter-spacing: 2.25px;
579   outline: none;
580   border-radius: 10px;
581 }
582 .AddService form button[name="AddService"]{
583   font-family: 'Rajdhani', sans-serif;
584   font-size: 15px;
585   font-weight: 700;
586   text-align: center;
587   position: relative;
588   margin: 10px 11.125px;
589   padding: 3.5px 55.625px;
590   color: #FFF;
591   background: #003545;
592   cursor: pointer;
593   border-radius: 10px;
594   letter-spacing: 2.25px;
595   border: 2.5px solid #751410;
596   outline: none;
597 }
598 .AddService form button[name="AddService"]:hover{
599   background: #751410;
600 }
601 .ServiceDetails{
602   width: 341.425px;
603   margin: -181.425px 0 2.5px 252.5px;
604   border-radius: 7.5px;
605   position: absolute;
606   display: inline-block;
607   overflow: scroll;
608   height: 375.875px;
609 }
610 .ServiceDetails h3{
611   text-align: center;
612   padding: 12.5px 0;
613   font-size: 22.5px;
614   letter-spacing: 5px;
615   color: white;
616   border-radius: 7.5px;
617   background: #001F3F;
618   margin-bottom: 0.75px;
619 }
620 .ServiceDetails table{
621   border-collapse: separate;
622   width: 928.25px;
623   text-transform: uppercase;
624   border-spacing: 0;
625   margin-top: 1.25px;
626 }
627 .ServiceDetails th{
628   padding: 18px;
629   text-align: center;
630   font-size: 13.25px;
631   letter-spacing: 2.875px;
632   font-weight: 700;
633   background: #001F3F;
634   color: white;
635 }
636 .ServiceDetails table tr th small{
637   font-size: 0.75px;
638   letter-spacing: 1.075px;
639 }
640 .ServiceDetails td:first-child{
641   border-left: 2.5px solid #001F3F;
642 }
643 .ServiceDetails td:last-child{
644   border-right: 2.5px solid #001F3F;
645 }
646 .ServiceDetails th:first-child{
647   border-top-left-radius: 7.5px;
648 }
649 .ServiceDetails th:last-child{
650   border-top-right-radius: 7.5px;
651 }
652 .ServiceDetails table tr:last-child td:first-child{
653   border-bottom-left-radius: 7.5px;
654 }
655 .ServiceDetails table tr:last-child td:last-child{
656   border-bottom-right-radius: 7.5px;
657 }
658 .ServiceDetails td{
659   letter-spacing: 1.5px;
660   padding: 10px;
661   text-align: center;
662   font-size: 11.75px;
663   padding: 9.75px;
664   font-weight: 600;
665   border-bottom: 2px solid #001F3F;
666 }
667 .ServiceDetails tr:nth-child(odd){
668   background: #001F3F;
669   color: white;
670 }
671 .ServiceDetails tr:nth-child(even){
672   background: white;
673   color: #001F3F;
674   border-bottom: 2px solid #001F3F !important;
675 }
676 .ServiceDetails table tr td button[name="DeleteService"]{
677   padding: 5px 0.275px;
678   border-radius: 15px;
679   outline: none;
680   font-weight: 600;
681   font-size: 11.75px;
682   color: #FFF;
683   background: #003545;
684   cursor: pointer;
685   letter-spacing: 1.5px;
686   border: 2.5px solid #751410;
687 }
688 .ServiceDetails table tr td button[name="DeleteService"]:hover{
689   background: #751410;
690 }
691 .ServiceDetails:-webkit-scrollbar{
692   width: 13.5px;
693 }
694 .ServiceDetails:-webkit-scrollbar-thumb{
695   background: white;
696   border-radius: 7.5px;
697   border: 2.5px solid #001F3F;
698 }
699 .ServiceDetails:-webkit-scrollbar-track{
700   border: 2.5px solid #001F3F;
701   box-shadow: 0 5px rgba(0,0,0,0.25);
702   border-radius: 7.5px;
703 }
704 .ErrorBubble{
705   display: none;
706   position: absolute;
707   margin-left: 50px;
708   width: 360px;
709   height: 13.875px;
710   padding: 5px;
711   background: #F68488;
712   border-radius: 4px;
713   border: #800000 solid 3px;
714   animation-name: Appear;
715   animation-duration: 1.75s;
716 }
717 .ErrorBubble:after{
718   content: '';
719   position: absolute;
720   border-style: solid;
721   border-width: 9px 23px 9px 0;
722   border-color: transparent #F68488;
723   display: block;
724   width: 0;
725   z-index: 1;
726   left: -22.5px;
727   top: 3.575px;
728 }
729 .ErrorBubble:before{
730   content: '';
731   position: absolute;
732   border-style: solid;
733   border-width: 1px 25px 1px 0;
734   border-color: transparent #F68488;
735   display: block;
736   width: 0;
737   z-index: 1;
738   left: -22.5px;
739   top: 3.575px;
740 }
741 .ErrorBubble2{
742   display: none;
743   position: absolute;
744   margin-left: 42.5px;
745   width: 360px;
746   height: 13.875px;
747   padding: 5px;
748   background: #F68488;
749   border-radius: 4px;
750   border: #800000 solid 3px;
751   animation-name: Appear;
752   animation-duration: 1.75s;
753 }
754 .ErrorBubble2:after{
755   content: '';
756   position: absolute;
757   border-style: solid;
758   border-width: 1px 25px 1px 0;
759   border-color: transparent #800000;
760   display: block;
761   width: 0;
762   z-index: 1;
763   left: -27.5px;
764   top: 3.575px;
765 }
766 .ErrorBubble2:before{
767   content: '';
768   position: absolute;
769   border-style: solid;
770   border-width: 9px 23px 9px 0;
771   border-color: transparent #F68488;
772   display: block;
773   width: 0;
774   z-index: 1;
775   left: -27.5px;
776   top: 3.575px;
777 }
778 .ErrorBubble3{
779   display: none;
780   position: absolute;
781   margin-left: 113.875px;
782   width: 360px;
783   height: 13.875px;
784   padding: 5px;
785   background: #F68488;
786   border-radius: 4px;
787   border: #800000 solid 3px;
788   animation-name: Appear;
789   animation-duration: 1.75s;
790 }
791 .ErrorBubble3:after{
792   content: '';
793   position: absolute;
794   border-style: solid;
795   border-width: 1px 25px 1px 0;
796   border-color: transparent #800000;
797   display: block;
798   width: 0;
799   z-index: 1;
800   left: -22.5px;
801   top: 3.575px;
802 }
803 .ErrorBubble3:before{
804   content: '';
805   position: absolute;
806   border-style: solid;
807   border-width: 9px 23px 9px 0;
808   border-color: transparent #F68488;
809   display: block;
810   width: 0;
811   z-index: 1;
812   left: -27.5px;
813   top: 3.575px;
814 }
815 .MessageFooter button[name="Inserted"]{
816   padding: 5px 30px;
817   font-weight: 600;
818   color: white;
819   background: #28A745;
820   letter-spacing: 1.875px;
821   cursor: pointer;
822   border-radius: 12.5px;
823   border: 3.25px solid #1F8436;
824   margin: 22.5px 75px;
825   outline: none;
826 }
827 .MessageFooter button[name="Inserted"]:hover{
828   background: #1F8436;
829 }
830 .MessageFooter button[name="Remove"]{
831   padding: 5px 30px;
832   font-weight: 600;
833   color: white;
834   background: #DC3545;
835   letter-spacing: 1.875px;
836   cursor: pointer;
837   border-radius: 12.5px;
838   border: 2.5px solid #751410;
839   margin: 22.5px 75px;
840   outline: none;
841 }
842 .MessageFooter button[name="Remove"]:hover{
843   background: #751410;
844 }
845 .AddStaff input:-webkit-outer-spin-button{
846   width: 7.5px 6.75px;
847   position: absolute;
848   margin: 10px 0 5px;
849   font-size: 20px;
850   letter-spacing: 3.5px;
851   color: white;
852   font-weight: 700;
853 }
854 .AddStaff input:-webkit-inner-spin-button{
855   display: none;
856   margin: 0;
857 }
858 .AddStaff{
859   margin: 1.75px 6.75px;
860   position: absolute;
861   width: 70px;
862   height: 18.75px;
863   background: #001F3F;
864   border-radius: 7.5px;
865 }
866 .AddStaff h5{
867   font-family: 'Rajdhani', sans-serif;
868   text-align: center;
869   margin: 10px 0 5px;
870   font-size: 20px;
871   letter-spacing: 3.5px;
872   color: white;
873   font-weight: 700;
874 }
875 .AddStaff hr{
876   width: 77.5px;
877   margin: 1.25px 23.825px;
878   height: 2.5px;
879   border-radius: 40px;
880   background: white;
881 }
882 .AddStaff input{
883   font-family: 'Rajdhani', sans-serif;
884   font-size: 15px;
885   font-weight: 700;
886   text-align: center;
887   position: relative;
888   color: #001F3F;
889   margin-left: -42.5px;
890   width: 0;
891   z-index: 0;
892   left: -20.5px;
893   top: 1.575px;
894 }
895 .AddStaff input:-webkit-before{
896   content: '';
897   position: absolute;
898   border-style: solid;
899   border-width: 1px 25px 1px 0;
900   border-color: transparent #800000;
901   display: block;
902   width: 0;
903   z-index: 0;
904   left: -27.5px;
905   top: 3.575px;
906 }
907 .AddStaff input:-webkit-after{
908   content: '';
909   position: absolute;
910   border-style: solid;
911   border-width: 9px 23px 9px 0;
912   border-color: transparent #F68488;
913   display: block;
914   width: 0;
915   z-index: 0;
916   left: -27.5px;
917   top: 3.575px;
918 }
919 .AddStaff select{
920   font-family: 'Rajdhani', sans-serif;
921   font-size: 13.5px;
922   font-weight: 700;
923   position: relative;
924   color: #001F3F;
925   margin: 2.5px 12.5px;
926   padding: 2.375px 32.875px;
927   border: 2px solid lightgray;
928   letter-spacing: 1.75px;
929   outline: none;
930   border-radius: 10px;
931 }
932 .AddStaff input::placeholder, .AddService input::placeholder{
933   color: #001F3F;
934 }
935 .AddStaff select option{
936   font-family: 'Rajdhani', sans-serif;
937   font-size: 12.75px;
938   font-weight: 700;
939   color: #001F3F;
940   padding: 2.5px 10px;
941   letter-spacing: 1.5px;
942 }
943 .AddStaff form button[name="AddStaff"]{
944   font-family: 'Rajdhani', sans-serif;
945   font-size: 15px;
946   font-weight: 700;
947   text-align: center;
948   color: #FFF;
949   background: #DC3545;
950   cursor: pointer;
951   border-radius: 18px;
952   border: 3.25px solid #1F8436;
953   margin: 22.5px 75px;
954   outline: none;
955 }
956 .AddStaff form button[name="AddStaff"]:hover{
957   background: #1F8436;
958 }
959 .AddStaff input::placeholder{
960   font-size: 13.5px;
961   position: relative;
962   color: #001F3F;
963   margin: 10px 0 5px;
964   font-size: 20px;
965   letter-spacing: 3.5px;
966   color: white;
967   font-weight: 700;
968 }
969 .AddStaff hr{
970   width: 77.5px;
971   margin: 1.25px 23.825px;
972   height: 2.5px;
973   border-radius: 40px;
974   background: white;
975 }
976 .AddStaff input{
977   display: none;
978   margin: 0;
979 }
980 .AddStaff{
981   margin: 1.75px 6.75px;
982   position: absolute;
983   width: 70px;
984   height: 18.75px;
985   background: #001F3F;
986   border-radius: 7.5px;
987 }
988 .AddStaff h5{
989   font-family: 'Rajdhani', sans-serif;
990   text-align: center;
991   margin: 10px 0 5px;
992   font-size: 20px;
993   letter-spacing: 3.5px;
994   color: white;
995   font-weight: 700;
996 }
997 .AddStaff hr{
998   width: 77.5px;
999   margin: 1.25px 23.825px;
1000   height: 2.5px;
1001   border-radius: 40px;
1002   background: white;
1003 }
1004 .AddStaff input{
1005   font-family: 'Rajdhani', sans-serif;
1006   font-size: 15px;
1007   font-weight: 700;
1008   text-align: center;
1009   position: relative;
1010   color: #001F3F;
1011   margin-left: -42.5px;
1012   width: 0;
1013   z-index: 0;
1014   left: -20.5px;
1015   top: 1.575px;
1016 }
1017 .AddStaff input:-webkit-before{
1018   content: '';
1019   position: absolute;
1020   border-style: solid;
1021   border-width: 13.5px;
1022   font-weight: 700;
1023   position: relative;
1024   color: #001F3F;
1025   text-align: last-center;
1026   width: 89.75px;
1027   margin: 2.5px 17.5px;
1028   padding: 2.375px 2.875px;
1029   border: 2.5px solid lightgray;
1030   letter-spacing: 1.75px;
1031   outline: none;
1032   border-radius: 10px;
1033   -moz-appearance: none;
1034   -webkit-appearance: none;
1035 }
1036 .AddStaff input::placeholder, .AddService input::placeholder{
1037   color: #001F3F;
1038 }
1039 .AddStaff select option{
1040   font-family: 'Rajdhani', sans-serif;
1041   font-size: 12.75px;
1042   font-weight: 700;
1043   color: #001F3F;
1044   padding: 2.5px 10px;
1045   letter-spacing: 1.5px;
1046 }
1047 .AddStaff form button[name="AddStaff"]{
1048   font-family: 'Rajdhani', sans-serif;
1049   font-size: 15px;
1050   font-weight: 700;
1051   text-align: center;
1052   color: #FFF;
1053   background: #DC3545;
1054   cursor: pointer;
1055   border-radius: 18px;
1056   border: 3.25px solid #1F8436;
1057   margin: 2.5px 12.5px;
1058   padding: 3.25px 47.75px;
1059   color: #FFF;
1060   background: #DC3545;
1061   cursor: pointer;
1062   border-radius: 18px;
1063   border: 3.25px solid #751410;
1064   outline: none;
1065 }
1066 .AddStaff form button[name="AddStaff"]:hover{
1067   background: #1F8436;
1068 }
1069 .AddStaff input::placeholder{
1070   font-size: 13.5px;
1071   position: relative;
1072   color: #001F3F;
1073   margin: 10px 0 5px;
1074   font-size: 20px;
1075   letter-spacing: 3.5px;
1076   color: white;
1077   font-weight: 700;
1078 }
1079 .AddStaff hr{
1080   width: 77.5px;
1081   margin: 1.25px 23.825px;
1082   height: 2.5px;
1083   border-radius: 40px;
1084   background: white;
1085 }
1086 .AddStaff input{
1087   display: none;
1088   margin: 0;
1089 }
1090 .AddStaff{
1091   margin: 1.75px 6.75px;
1092   position: absolute;
1093   width: 70px;
1094   height: 18.75px;
1095   background: #001F3F;
1096   border-radius: 7.5px;
1097 }
1098 .AddStaff h5{
1099   font-family: 'Rajdhani', sans-serif;
1100   text-align: center;
1101   margin: 10px 0 5px;
1102   font-size: 20px;
1103   letter-spacing: 3.5px;
1104   color: white;
1105   font-weight: 700;
1106 }
1107 .AddStaff hr{
1108   width: 77.5px;
1109   margin: 1.25px 23.825px;
1110   height: 2.5px;
1111   border-radius: 40px;
1112   background: white;
1113 }
1114 .AddStaff input{
1115   display: none;
1116   margin: 0;
1117 }
1118 .AddStaff{
1119   margin: 1.75px 6.75px;
1120   position: absolute;
1121   width: 70px;
1122   height: 18.75px;
1123   background: #001F3F;
1124   border-radius: 7.5px;
1125 }
1126 .AddStaff h5{
1127   font-family: 'Rajdhani', sans-serif;
1128   text-align: center;
1129   margin: 10px 0 5px;
1130   font-size: 20px;
1131   letter-spacing: 3.5px;
1132   color: white;
1133   font-weight: 700;
1134 }
1135 .AddStaff hr{
1136   width: 77.5px;
1137   margin: 1.25px 23.825px;
1138   height: 2.5px;
1139   border-radius: 40px;
1140   background: white;
1141 }
1142 .AddStaff input{
1143   display: none;
1144   margin: 0;
1145 }
1146 .AddStaff{
1147   margin: 1.75px 6.75px;
1148   position: absolute;
1149   width: 70px;
1150   height: 18.75px;
1151   background: #001F3F;
1152   border-radius: 7.5px;
1153 }
1154 .AddStaff h5{
1155   font-family: 'Rajdhani', sans-serif;
1156   text-align: center;
1157   margin: 10px 0 5px;
1158   font-size: 20px;
1159   letter-spacing: 3.5px;
1160   color: white;
1161   font-weight: 700;
1162 }
1163 .AddStaff hr{
1164   width: 77.5px;
1165   margin: 1.25px 23.825px;
1166   height: 2.5px;
1167   border-radius: 40px;
1168   background: white;
1169 }
1170 .AddStaff input{
1171   display: none;
1172   margin: 0;
1173 }
1174 .AddStaff{
1175   margin: 1.75px 6.75px;
1176   position: absolute;
1177   width: 70px;
1178   height: 18.75px;
1179   background: #001F3F;
1180   border-radius: 7.5px;
1181 }
1182 .AddStaff h5{
1183   font-family: 'Rajdhani', sans-serif;
1184   text-align: center;
1185   margin: 10px 0 5px;
1186   font-size: 20px;
1187   letter-spacing: 3.5px;
1188   color: white;
1189   font-weight: 700;
1190 }
1191 .AddStaff hr{
1192   width: 77.5px;
1193   margin: 1.25px 23.825px;
1194   height: 2.5px;
1195   border-radius: 40px;
1196   background: white;
1197 }
1198 .AddStaff input{
1199   display: none;
1200   margin: 0;
1201 }
1202 .AddStaff{
1203   margin: 1.75px 6.75px;
1204   position: absolute;
1205   width: 70px;
1206   height: 18.75px;
1207   background: #001F3F;
1208   border-radius: 7.5px;
1209 }
1210 .AddStaff h5{
1211   font-family: 'Rajdhani', sans-serif;
1212   text-align: center;
1213   margin: 10px 0 5px;
1214   font-size: 20px;
1215   letter-spacing: 3.5px;
1216   color: white;
1217   font-weight: 700;
1218 }
1219 .AddStaff hr{
1220   width: 77.5px;
1221   margin: 1.25px 23.825px;
1222   height: 2.5px;
1223   border-radius: 40px;
1224   background: white;
1225 }
1226 .AddStaff input{
1227   display: none;
1228   margin: 0;
1229 }
1230 .AddStaff{
1231   margin: 1.75px 6.75px;
1232   position: absolute;
1233   width: 70px;
1234   height: 18.75px;
1235   background: #001F3F;
1236   border-radius: 7.5px;
1237 }
1238 .AddStaff h5{
1239   font-family: 'Rajdhani', sans-serif;
1240   text-align: center;
1241   margin: 10px 0 5px;
1242   font-size: 20px;
1243   letter-spacing: 3.5px;
1244   color: white;
1245   font-weight: 700;
1246 }
1247 .AddStaff hr{
1248   width: 77.5px;
1249   margin: 1.25px 23.825px;
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1260   position: absolute;
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1262   height: 18.75px;
1263   background: #001F3F;
1264   border-radius: 7.5px;
1265 }
1266 .AddStaff h5{
1267   font-family: 'Rajdhani', sans-serif;
1268   text-align: center;
1269   margin: 10px 0 5px;
1270   font-size: 20px;
1271   letter-spacing: 3.5px;
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1273   font-weight: 700;
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1278   height: 2.5px;
1279   border-radius: 40px;
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1283   display: none;
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1288   position: absolute;
1289   width: 70px;
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1291   background: #001F3F;
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1297   margin: 10px 0 5px;
1298   font-size: 20px;
1299   letter-spacing: 3.5px;
1300   color: white;
1301   font-weight: 700;
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1305   margin: 1.25px 23.825px;
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1311   display: none;
1312   margin: 0;
1313 }
1314 .AddStaff{
1315   margin: 1.75px 6.75px;
1316   position: absolute;
1317   width: 70px;
1318   height: 18.75px;
1319   background: #001F3F;
1320   border-radius: 7.5px;
1321 }
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1324   text-align: center;
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1327   letter-spacing: 3.5px;
1328   color: white;
1329   font-weight: 700;
1330 }
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1332   width: 77.5px;
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1339   display: none;
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1408   text-align: center;
1409   margin: 10px 0 5px;
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1412   color: white;
1413   font-weight: 700;
1414 }
1415 .AddStaff hr{
1416   width: 77.5px;
1417   margin: 1.25px 23.825px;
1418   height: 2.5px;
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1420   background: white;
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1444   width: 77.5px;
1445   margin: 1.25px 23.825px;
1446   height: 2.5px;
1447   border-radius: 40px;
1448   background: white;
1449 }
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1451   display: none;
1452   margin: 0;
1453 }
1454 .AddStaff{
1455   margin: 1.75px 6.75px;
1456   position: absolute;
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1459   background: #001F3F;
1460   border-radius: 7.5px;
1461 }
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1463   font-family: 'Rajdhani', sans-serif;
1464   text-align: center;
1465   margin: 10px 0 5px;
1466   font-size: 20px;
1467   letter-spacing: 3.5px;
1468   color: white;
1469   font-weight: 700;
1470 }
1471 .AddStaff hr{
1472   width: 77.5px;
1473   margin: 1.25px 23.825px;
1474   height: 2.5px;
1475   border-radius: 40px;
1476   background: white;
1477 }
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1480   margin: 0;
1481 }
1482 .AddStaff{
1483   margin: 1.75px 6.75px;
1484   position: absolute;
1485   width: 70px;
1486   height: 18.75px;
1487   background: #001F3F;
1488   border-radius: 7.5px;
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1491   font-family: 'Rajdhani', sans-serif;
1492   text-align: center;
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1494   font-size: 20px;
1495   letter-spacing: 3.5px;
1496   color: white;
1497   font-weight: 700;
1498 }
1499 .AddStaff hr{
1500   width: 77.5px;
1501   margin: 1.25px 23.825px;
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1511   margin: 1.75px 6.75px;
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1514   height: 18.75px;
1515   background: #001F3F;
1516   border-radius: 7.5px;
1517 }
1518 .AddStaff h5{
1519   font-family: 'Rajdhani', sans-serif;
1520   text-align: center;
1521   margin: 10px 0 5px;
1522   font-size: 20px;
1523   letter-spacing: 3.5px;
1524   color: white;
1525
```

## 23. Manager Report

Screenshot:

 **CHEEKO MOT CENTRE**  
431 Ilford Lane • IG1 2PG

**MONTHLY REPORT : FEBRUARY**

<b>CHEEKO MOT CENTRE</b> 431 Ilford Lane Ilford, Essex IG1 2PG 020 8514 0404	<b>MANAGER DETAILS</b> Name: Aaron Smith Email: cheeko.mot.centre.ilford@gmail.com 
--	--

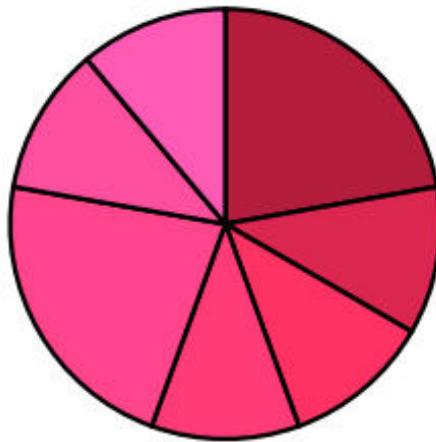
<b>DETAILS OF BOOKED APPOINTMENTS</b>				
Booking Reference	Price	Service Type	Date	Mechanics Name
#A08	£60.00	Diagnostic Check	01-02-2021	Muhammad Hussain
#A09	£175.00	Full Service	09-02-2021	Matthew Smith
#A010	£175.00	Full Service	01-02-2021	Matthew Smith
#A011	£300.00	Number Plate	01-02-2021	Matthew Smith
#A012	£225.00	Full Service + MOT	15-02-2021	Matthew Smith
#A013	£300.00	Brake Pad Replacement	02-02-2021	Haroun Ali
#A014	£60.00	Air Conditioning Recharge (R134A)	01-02-2021	Zeeshan Ali
#A015	£50.00	Engine Oil And Filter Change	03-02-2021	Arun Maini
#A016	£60.00	Air Conditioning Recharge (R134A)	03-02-2021	Sarfaraz Ansar

**TOTAL REVENUE: £1405.00 (INCREASE BY 680.56% FROM LAST MONTH)**

<b>PERFORMANCE DETAILS FOR MECHANICS IN FEBRUARY</b>			
Mechanics Name	Services Performed	Hours Worked	Day Of Week Not Working
Arun Maini	1	0 HRS 45 MINS	Monday
Haroun Ali	1	1 HRS 0 MINS	Thursday
Matthew Smith	4	7 HRS 50 MINS	Wednesday
Muhammad Hussain	1	0 HRS 40 MINS	Tuesday
Sarfaraz Ansar	1	0 HRS 45 MINS	Monday
Zeeshan Ali	1	0 HRS 45 MINS	Saturday

## STATISTICS OF FEBRUARY

Appointments	Percentage Change In Appointments	Average Revenue	Total Hours Of Service
9	+200% FROM LAST MONTH	£156.11	11 HRS 45 MINS



### SERVICES PERFORMED IN FEBRUARY

Service Name	Count
Air Conditioning Recharge (R134A)	2
Brake Pad Replacement	1
Diagnostic Check	1
Engine Oil And Filter Change	1
Full Service	2
Full Service + MOT	1
Number Plate	1

## Code:

```

1 <?php
2 session_start();
3 include("ConnectLoginSignupToMySQL.php");
4 if(!isset($_SESSION["AdminDetails"])){
5     header("Location: Login");
6 }
7 $Pound = "#";
8 $Pound = str_replace(chr(194), "#", $Pound);
9 require("FPDF/PDFPieChart.php");
10 $Date = date("Y-m-d");
11 list($Year,$Month,$Day) = explode("-",$Date);
12 /* Here, I Find The Date Of The Last Month Which Is Then Inserted Into The Database To Retrieve Data For The Previous Month On Month
13 Comparison In Terms Of Total Revenue And Appointments Booked */
14 if($Month == "01"){
15     $PreviousYear = $Year - 1;
16     $PreviousMonthDate = $PreviousYear."-12-".$Day;
17 } else {
18     if($Month <= 10){
19         $Month = "0".($Month - 1);
20         $PreviousMonthDate = $Year.$Month.$Day;
21     } else {
22         $PreviousMonthDate = $Year.($Month-1).$Day;
23     }
24 }
25 $Month = strtoupper(date("F"));
26 //Get The Number Of Appointments Booked And Total Revenue Of The Previous Month
27 $PreviousMonthAppointment = mysqli_fetch_array(mysqli_query($Conn, "SELECT COUNT(*) AS AppointmentsBooked, SUM(TotalPrice) AS LastTotalRevenue FROM
28 appointmentdetails WHERE MONTH(AppointmentDate) = MONTH('".$PreviousMonthDate."')");
29 //Get The Number Of Appointments Booked And Total Revenue Of The Current Month
30 $CurrentMonthAppointment = mysqli_fetch_array(mysqli_query($Conn, "SELECT COUNT(*) AS AppointmentsBooked FROM appointmentdetails WHERE MONTH(AppointmentDate) =
31 MONTH('".$Date."')");
32 //Calculate The Percentage Change In Appointments From Last Month
33 $PercentageChangeInAppointments = round((((($CurrentMonthAppointment["AppointmentsBooked"])-($PreviousMonthAppointment["AppointmentsBooked"]))/($PreviousMonthAppointment["AppointmentsBooked"]))*100),2);
34 //Get The Service Name And The Amount Of Time Each Service Has Been Booked In The Current Month By Joining The Service And Appointment Table
35 $ServicesInMonth = mysqli_query($Conn, "SELECT services.ServiceName, COUNT(services.ServiceName) AS ServiceCount FROM services INNER JOIN appointmentdetails ON
36 appointmentdetails.ServiceID = services.ServiceID WHERE MONTH('".$Date.") = MONTH(appointmentdetails.AppointmentDate) GROUP BY services.ServiceName");
37 //Get The Appointment Details For All The Appointments Booked In The Current Month Using The PHP Function MONTH To Filter The Records
38 $MonthAppointmentDetails = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE MONTH(AppointmentDate) = MONTH('".$Date."')");
39 //Get The Total And Average Revenue For The Current Month Using The PHP Function MONTH To Filter The Records
40 $Revenue = mysqli_fetch_array(mysqli_query($Conn, "SELECT SUM(TotalPrice), AVG(TotalPrice) FROM appointmentdetails WHERE MONTH('".$Date."') =
41 MONTH(AppointmentDate)"));
42 /* In This SQL Statement, I Joined 4 Tables In My Database To Calculate How Many Hours A Mechanic Has Worked In That Month Rather Than The Total Hours Worked
43 Overall At The MOT Centre, The Number Of Appointments They Have Attended To In The Current Month, Their Name And They Day Of The Week They Don't Work Using
44 INNER JOIN And Grouped The Data By The Mechanics Name */
45 $MechanicDetails = mysqli_query($Conn, "SELECT SUM(services.Duration) AS Duration, COUNT(mechanics_on_appointment.AppointmentID) AS ServicesPerformed,
46 mechanics.FullName, mechanics.DayOfWeekNotWorking FROM services INNER JOIN appointmentdetails ON appointmentdetails.ServiceID = services.ServiceID INNER JOIN
47 mechanics_on_appointment ON mechanics_on_appointment.AppointmentID = appointmentdetails.AppointmentID INNER JOIN mechanics ON mechanics_on_appointment.MechanicID =
48 mechanics.MechanicID WHERE MONTH(appointmentdetails.AppointmentDate) = MONTH('".$Date.") GROUP BY mechanics.FullName");
49 //Calculate The Percentage Change In Total Revenue From Last Month
50 $PercentageChangeInTotalRevenue = round((((($Revenue["SUM(TotalPrice)"])-($Revenue["LastTotalRevenue"]))/($Revenue["LastTotalRevenue"]))*100,2);
51 //I Have Used An External PHP Library Called FPDF In Order To Create A Dynamic PDF Report Which Changes As Appointments Are Booked/Cancelled
52 $PDF = new FPDF('P','mm','array(211,25,215)'); //Portrait, Measurements in Millimetres, A4 Page Size)
53 $PDF->AddPage();
54 $PDF->Image('Cheeko MOT Centre Logo.jpg',10,5,192.5);
55 $PDF->Image('Manager Signature.png',126.5,66.25,40);
56 $PDF->Cell(9,22.25,"",0,1,"C");
57 $PDF->Cell(9,22.25,"",0,1,"C");
58 $PDF->SetFont("Helvetica", "B",15);
59 $PDF->SetLineWidth(1);
60 $PDF->SetFillColor(0, 78, 146);
61 $PDF->SetTextColor(255,255,255);
62 $PDF->SetDrawColor(0, 4, 40);
63 $PDF->Cell(191.975,12.5,"MONTHLY REPORT : $Month",1,1,"C",TRUE);
64 $PDF->Cell(22.5,3.5,"",0,1,"C");
65 $PDF->Cell(0,0,0);
66 $PDF->SetFont("Helvetica", "B",12.5);
67 $PDF->Cell(110,5.75,"CHEEKO MOT CENTRE",0,0,"L");
68 $PDF->Cell(180,5.75,"MANAGEMENT DETAILS",0,1,"L");
69 $PDF->SetFont("Helvetica", "",11.25);
70 $PDF->Cell(110,5.25,"431 Ilford Lane",0,0,"L");
71 $PDF->Cell(120,5.75,"Name: Aaron Smith",0,1,"L");
72 $PDF->Cell(110,5.25,"Ilford, Essex",0,0,"L");
73 $PDF->Cell(120,5.75,"Email: cheeko.mot.centre.ilford@gmail.com",0,1,"L");
74 $PDF->Cell(110,5.75,"T1 2PG",0,1,"L");
75 $PDF->Cell(110,5.25,"020 8514 0484",0,1,"L");
76 $PDF->Cell(22.5,3.125,"",0,1,"C");
77 $PDF->SetFont("Helvetica", "B",13.75);
78 $PDF->SetTextColor(0,0,0);
79 $PDF->SetLineWidth(0.75);
80 $PDF->SetFillColor(230,230,230);
81 $PDF->SetDrawColor(0,0,0);
82 $PDF->Cell(192.15,11,"DETAILS OF BOOKED APPOINTMENTS",1,1,"C",TRUE);
83 $PDF->SetFont("Helvetica", "B",10);
84 $PDF->Cell(37.5,9,"Booking Reference",1,0,"C");
85 $PDF->Cell(27,9,"Price",1,0,"C");
86 $PDF->Cell(67.25,9,"Service Type",1,0,"C");
87 $PDF->Cell(25.5,9,"Date",1,0,"C");
88 $PDF->Cell(34.85,9,"Mechanics Name",1,1,"C");
89 if(mysql_num_rows($MonthAppointmentDetails) > 0){
90     $PDF->SetFont("Helvetica", "",9.5);
91     while($Row = mysqli_fetch_assoc($MonthAppointmentDetails)){
92         $ServiceID = $Row["ServiceID"];
93         $AppointmentID = $Row["AppointmentID"];
94         /* This SQL Query Is Used To Get The Name Of The Mechanic Allocated To Each Appointment In The Current Month By Joining The Mechanics And
95         Mechanic_On_Appointment Table */
96         $MechanicName = mysqli_fetch_array(mysqli_query($Conn, "SELECT mechanics.FullName FROM mechanics INNER JOIN mechanics_on_appointment ON
97 mechanics.MechanicID = mechanics_on_appointment.MechanicID WHERE mechanics_on_appointment.AppointmentID = '$AppointmentID'"));
98         $ServiceName = mysqli_fetch_array(mysqli_query($Conn, "SELECT ServiceName FROM services WHERE ServiceID = '$ServiceID'"));
99         $PDF->Cell(37.5,8.5,"#".$Row["AppointmentID"],1,0,"C");
100        $PDF->Cell(27.8,5,$Pound.$Row["TotalPrice"],1,0,"C");
101        $PDF->Cell(67.25,8.5,$ServiceName["ServiceName"],1,0,"C");
102        $PDF->Cell(25.5,8.5,(date("d-m-Y", strtotime($Row["AppointmentDate"]))),1,0,"C");
103        $PDF->Cell(34.85,8.5,$MechanicName["FullName"],1,1,"C");
104    }
105 } else {
106     $PDF->SetFont("Helvetica", "B",10);
107     $PDF->SetFillColor(230,230,230);
108     $PDF->SetTextColor(255,255,255);
109     $PDF->Cell(192.1,11,5,"NO APPOINTMENTS BOOKED IN $Month",1,0,"C",TRUE);
110 }
111 if($PercentageChangeInTotalRevenue>0){
112     $PDF->SetFont("Helvetica", "B",10.5);
113     $PDF->SetTextColor(255,255,255);
114     $PDF->SetFillColor(59,29,50);
115     $PDF->Cell(192.15,18,"TOTAL REVENUE:".$Pound.$Revenue["SUM(TotalPrice)]." (INCREASE BY ". $PercentageChangeInTotalRevenue. "% FROM LAST MONTH)",1,1,"C",TRUE);
116 } elseif($PercentageChangeInTotalRevenue<0){
117     $PDF->SetFont("Helvetica", "B",11.5);
118     $PDF->SetTextColor(255,255,255);
119     $PDF->SetFillColor(205,50,50);
120     $PDF->Cell(192.15,9,"TOTAL REVENUE:".$Pound.$Revenue["SUM(TotalPrice)"].1.1.1."C",TRUE);
121 }
122 
```

```

123 } else {
124     $PDF->SetFont("Helvetica", "B", 11.5);
125     $PDF->SetTextColor(255, 255, 255);
126     $PDF->SetFillColor(55, 55, 55);
127     $PDF->Cell(192.15, 9, "TOTAL REVENUE: ". $Pound. $Revenue["SUM(TotalPrice)"], 1, 1, "C", TRUE);
128
129     $PDF->SetFont("Helvetica", "B", 18);
130     $PDF->Cell(0, 3.5, "", 0, 1, "C");
131     $PDF->SetFont("Helvetica", "B", 13.75);
132     $PDF->SetTextColor(0, 0, 0);
133     $PDF->SetLineWidth(0.75);
134     $PDF->SetFillColor(239, 230, 238);
135     $PDF->SetDrawColor(0, 0, 0);
136     $PDF->Cell(192.15, 11, "PERFORMANCE DETAILS FOR MECHANICS IN $Month", 1, 1, "C", TRUE);
137     $PDF->SetFont("Helvetica", "B", 10);
138     $PDF->Cell(45.9, "Mechanic Name", 1, 0, "C");
139     $PDF->Cell(45.9, "Services Performed", 1, 0, "C");
140     $PDF->Cell(45.9, "Hours Worked", 1, 0, "C");
141     $PDF->Cell(57.15, 9, "Day Of Week Not Working", 1, 1, "C");
142     if(mysql_num_rows($MechanicDetails) > 0) {
143         $PDF->SetFont("Helvetica", "", 9.5);
144         $TotalHoursWorkedInMOTCentre = 0;
145         while($Row = mysqli_fetch_assoc($MechanicDetails)){
146             $Duration = number_format((float)$Row["Duration"] / 60, 2, '.', ',');
147             list($Hours, $Minutes) = explode(".", $Duration);
148             $Minutes = ($Minutes / 100);
149             $Minutes = round($Minutes * 60);
150             $PDF->Cell(45.8, 5, $Row["FullName"], 1, 0, "C");
151             $PDF->Cell(45.8, 5, $Row["ServicesPerformed"], 1, 0, "C");
152             $PDF->Cell(45.8, 5, "Hours." . $Hours . " HRS " . $Minutes . " MINS", 1, 0, "C");
153             $TotalHoursWorkedInMOTCentre = $TotalHoursWorkedInMOTCentre + ($Row["Duration"] / 60);
154             if ($Row["DayOfWeekNotWorking"] == 1) {
155                 $PDF->Cell(57.15, 8.5, None, 1, 1, "C");
156             } else {
157                 $PDF->Cell(57.15, 8.5, jddayofweek((($Row["DayOfWeekNotWorking"]) - 2), 1), 1, 1, "C");
158             }
159         }
160     } else {
161         $PDF->SetFont("Helvetica", "B", 10);
162         $PDF->SetFillColor(225, 0, 0);
163         $PDF->SetTextColor(255, 255, 255);
164         $PDF->Cell(113.5, 11.5, "NO APPOINTMENTS BOOKED IN $Month", 1, 0, "C", TRUE);
165     }
166     $PDF->Cell(0, 3.5, "", 0, 1, "C");
167     $PDF->SetFont("Helvetica", "B", 13.75);
168     $PDF->SetTextColor(0, 0, 0);
169     $PDF->SetLineWidth(0.75);
170     $PDF->SetFillColor(239, 230, 238);
171     $PDF->SetDrawColor(0, 0, 0);
172     $PDF->Cell(192.15, 11, "STATISTICS OF $Month", 1, 1, "C", TRUE);
173     $PDF->SetFont("Helvetica", "B", 10);
174     $PDF->Cell(35.9, "Appointments", 1, 0, "C");
175     $PDF->Cell(65.9, "Percentage Change In Appointments", 1, 0, "C");
176     $PDF->Cell(35.9, "Average Revenue", 1, 0, "C");
177     $PDF->Cell(57.15, 9, "Total Hours Of Service", 1, 1, "C");
178     $PDF->SetFont("Helvetica", "", 9.5);
179     $PDF->Cell(35.8, 5, $CurrentMonthAppointment["AppointmentsBooked"], 1, 0, "C");
180     if($PercentageChangeInTotalRevenue > 0) {
181         $PDF->SetFont("Helvetica", "B", 9.5);
182         $PDF->SetTextColor(50, 285, 50);
183         $PDF->Cell(65.8, 5, "% $PercentageChangeInAppointments. % FROM LAST MONTH", 1, 0, "C");
184     } elseif($PercentageChangeInTotalRevenue < 0) {
185         $PDF->SetFont("Helvetica", "B", 9.5);
186         $PDF->SetTextColor(220, 0, 0);
187         $PDF->Cell(65.8, 5, $PercentageChangeInAppointments. "% FROM LAST MONTH", 1, 0, "C");
188     } else {
189         $PDF->SetFont("Helvetica", "B", 9.5);
190         $PDF->SetTextColor(64, 64, 64);
191         $PDF->Cell(65.8, 5, "% CHANGE FROM LAST MONTH", 1, 0, "C");
192     }
193     $PDF->SetFont("Helvetica", "", 9.5);
194     $PDF->SetTextColor(0, 0, 0);
195     $TotalHoursWorkedInMOTCentre = number_format((float)$TotalHoursWorkedInMOTCentre, 2, '.', ',');
196     list($Hours, $Minutes) = explode(".", $TotalHoursWorkedInMOTCentre);
197     $Minutes = ($Minutes / 100);
198     $Minutes = round($Minutes * 60);
199     $AverageRevenue = number_format((float)$Revenue["AVG(TotalPrice)"], 2, '.', ',');
200     $PDF->Cell(35.8, 5, $Pound. $AverageRevenue, 1, 0, "C");
201     $PDF->Cell(57.15, 8.5, $Hours . " HRS " . $Minutes . " MINS", 1, 1, "C");
202     $PDF->Cell(0, 39, "", 0, 0, "C");
203     $PieX = 100;
204     $PieY = 50;
205     $Sum = 0;
206     $U = 150; $V = 0; $W = 30; $X = 150; $Y = 0; $Z = 30;
207     $Radius = 35;
208     $CurrentPosition = 115;
209     $PDF->AddPage();
210     $PDF->Cell(100, 20, "", 0, 1, "C");
211     $PDF->SetFont("Helvetica", "B", 16.5);
212     $PDF->SetTextColor(0, 0, 0);
213     $PDF->SetLineWidth(0.75);
214     $PDF->SetFillColor(239, 230, 238);
215     $PDF->SetDrawColor(0, 0, 0);
216     $PDF->SetXY(60, 325, 94);
217     $PDF->Cell(75.95, 11, "SERVICES PERFORMED IN $Month", 1, 1, "C", TRUE);
218     $PDF->SetFillColor(255, 255, 255);
219     $PDF->SetXY(60, 325, 105);
220     $PDF->SetFont("Helvetica", "B", 18);
221     $PDF->Cell(67.45, 10, "Service Name", 1, 0, "C");
222     $PDF->Cell(12.5, 10, "Count", 1, 1, "C");
223     while($Row = mysqli_fetch_assoc($ServicesInMonth)){
224         $PDF->SetFillColor($U + 30, $V + 30, $W + 30);
225         $PDF->Rect(60, 325, $CurrentPosition, 9.95, 10, "DF");
226         $PDF->SetFont("Helvetica", "B", 9.5);
227         $PDF->SetXY(76.325, $CurrentPosition);
228         $PDF->Cell(57.5, 10, $Row["ServiceName"], 1, 0, "C");
229         $PDF->Cell(12.5, 10, $Row["ServiceCount"], 1, 0, "C");
230         $Sum += $Row["ServiceCount"];
231         $CurrentPosition += 10;
232         $U += 40; $V += 10; $W += 20;
233     }
234     $Degrees = 360 / $Sum;
235     $CurrentAngle = 0;
236     /* This SQL Query Joins The Service And Appointment Details Table Through INNER JOIN And Is Used To Find From The Database The Services That Have Been Booked In
237     The Current Month And Its Count In Order To Create A Pie Chart That Shows Which Services Are The Most Common At The MOT Centre In The Current Month */
238     $PieChartData = mysqli_query($Conn, "SELECT services.ServiceName, COUNT(services.ServiceName) AS ServiceCount FROM services INNER JOIN appointmentdetails ON
239     appointmentdetails.ServiceID = services.ServiceID WHERE MONTH('$Date') = MONTH(appointmentdetails.AppointmentDate) GROUP BY services.ServiceName");
240     $MonthAppointmentDetails = mysqli_query($Conn, "SELECT * FROM appointmentdetails WHERE MONTH(AppointmentDate) = MONTH('$Date')");
241     while($Row = mysqli_fetch_assoc($PieChartData)){
242         //Create A Pie Chart Which Changes As Appointments Are Booked
243         $Angle = $Degrees * $Row["ServiceCount"];
244         $PDF->SetFillColor($U + 30, $V + 30, $Z + 30);
245         $PDF->Sector($PieX, $PieY, $Radius, $CurrentAngle, ($CurrentAngle + $Angle));
246         $CurrentAngle += $Angle;
247         $X += 40; $Y += 10; $Z += 20;
248     }
249     $PDF->Output();
250 }

```

## 24. Logout

Code:

### Part 1 – Customer Logout –

```
1  <?php
2  session_start();
3  include("AuthenticateLoginSignup.php");
4  $UsernameLogin=$_SESSION["UsernameLogin"];
5  /* Once The User Has Logged Out, All SESSION Variables Are Unset And The SESSION Is Destroyed To Prevent The User From Accessing Their Account Without Logging In
6  Again And Their Status Is Updated From Online To Offline In The Database */
7  if(isset($_SESSION["UsernameLogin"])){
8      mysqli_query($Conn,"UPDATE customerdetails SET Status='Offline' WHERE Username='".$UsernameLogin.' OR Email='".$UsernameLogin."');
9      session_unset($_SESSION["UsernameLogin"]);
10     session_destroy();
11     header("Location: Home?Status=LoggedOutSuccessfully");
12 } else {
13     header("Location: Login");
14 } ?>
```

### Part 2 – Admin Logout –

```
1  <?php
2  session_start();
3  include("AuthenticateLoginSignup.php");
4  $AdminLogin = $_SESSION["AdminDetails"];
5  /* Once The Admin Has Logged Out, All SESSION Variables Are Unset And The SESSION Is Destroyed To Prevent The Admin From Accessing Their Account Without Logging In
6  Again And Their Status Is Updated From Online To Offline In The Database */
7  if(isset($_SESSION["AdminDetails"])){
8      mysqli_query($Conn,"UPDATE customerdetails SET Status='Offline' WHERE Username='".$AdminLogin.' OR Email='".$AdminLogin."');
9      session_unset($_SESSION["AdminDetails"]);
10     session_destroy();
11     header("Location: Home?Status=LoggedOutSuccessfully");
12 } else {
13     header("Location: Login");
14 } ?>
```

## 4 TESTING:

### 4.1 Minimal Set Of Test Data

#### Customer Data

Customer ID	First Name	Last Name	Username	Email	Password	Phone Number	Gender
5	Steve	Smith	Steve.Smith21	Steve_smith@gmail.com	Steve1\$	07308768771	Male
6	Emily	James	Emily215	<a href="mailto:Emily.James1@outlook.com">Emily.James1@outlook.com</a>	Emily_J1	07402188943	Female
7	Bradley	Matthew	B_Matthew1	<a href="mailto:B_Matthew1@yahoo.com">B_Matthew1@yahoo.com</a>	Matthew1	07787192039	Male

#### Vehicle Data

Registration Number	Vehicle Make	Vehicle Model	Current Mileage	AC Refrigerant	Last MOT	Customer ID
FT69 DFG	Toyota	Prius	120000	R124YF	2020-07-09	5
FT62 TZJ	Toyota	Yaris	105000	R134A	2020-03-18	2
OE17 PKR	Tesla	Model S	25000	R134A	2021-01-24	5

#### Booking Appointment Data

Appointment ID	Appointment Date	Appointment Start Time	Appointment End Time	Paid	Total Price	Service ID	Registration Number	Customer ID
7	2021-01-30	15:00	16:00	1	50	2	FT69 DFG	5
8	2021-01-28	9:00	9:30	0	300	16	FT62 TZJ	2
9	2021-01-29	17:00	19:00	1	175	7	OE58 JPM	6

#### Payment Data

Payment ID	Cardholder Name	Billing Address	Postal Code	Card Number	Type	Expiry Date	CVV	Appointment ID
3	STEVE SMITH	383 Ilford Lane	IG12SL	4921819781762215	VISA	03/2024	223	7
4	EMILY JAMES	126 Kingston Road	IG11PE	4825518781962239	MASTERCARD	09/2022	336	9

#### Services Data

Service ID	Service Name	Service Price	Duration (In Minutes)
18	Body Repair	100	200
19	Car Wrapping	900	600
20	Seat Belt Repair	100	250

#### Mechanic Data

Mechanic ID	Full Name	Mechanic Type	Day Of Week Not Working
36	Chris Rogers	MOT (Cars)	3
37	Chris Rogers	Interim Service	3
38	James Parker	Battery Replacement	4

## 4.2 Tests

### 1. Signup System - <https://youtu.be/SbAqMGOIfCo>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Ensure That None Of The Fields Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Username Is Required"	Error Messages Displayed To The User	0:15
1.02	Ensure That The First And Last Name Don't Contain Numbers Or Symbols	First Name: "Steven1" Last Name: "Smith\$"	Erroneous Test	Error Message: "First/Last Name Can Only Contain Letters"	Error Messages Displayed To The User	0:24
1.03	Ensure That Email Address Format Is Valid	Email: "Steve@.Com"	Erroneous Test	Error Message: "Email Format Is Invalid"	Error Message Displayed To The User	0:39
1.04	Check If An Account With The Inputted Email Already Exists	Email: "S1900762@leyton.ac.uk"	Erroneous Test	Error Message: "An Account With This Email Address Already Exists"	Error Message Displayed To The User	0:52
1.05	Check If An Account With The Inputted Username Already Exists	Username: "S1900762"	Erroneous Test	Error Message: "This Username Is Already Taken"	Error Message Displayed To The User	1:07
1.06	Check If Username Is Less Than 6 Character In Length	Username: "Steve"	Boundary Test	Error Message: "Username Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	1:20
1.07	Check If Username Is More Than 15 Character In Length	Username: "Steven_Smit h2021"	Boundary Test	Error Message: "Username Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	1:29
1.08	Check If Password Is Less Than 6 Character In Length	Password: "Bob12"	Boundary Test	Error Message: "Password Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	1:39
1.09	Check If Password Is More Than 15 Character In Length	Password: "StevenSmith12345"	Boundary Test	Error Message: "Username Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	1:53
1.10	Check Password Strength. It Must Contain At Least One Lowercase	Password: "Stevensmith"	Boundary Test	Error Message: "Please Choose Another Password"	Error Message Displayed To The User	2:10

	Letter, One Uppercase Letter And A Number			As This Password Is Weak"		
1.11	Check If Both Passwords Match	Password: "Steve2021" Confirm Password: "Steve2020"	Erroneous Test	Error Message: "Both Passwords Don't Match"	Error Message Displayed To The User	2:26
1.12	Check If Phone Number Contains Letters Or Special Characters	Phone Number: 073abc5678\$	Erroneous Test	Error Message: "Phone Number Is Invalid"	Error Message Displayed To The User	2:46
1.12	Check If Phone Numbers Length Is <> 11	Phone Number: 073057586740	Boundary Test	Error Message: "Phone Number Is Invalid"	Error Message Displayed To The User	3:02
1.13	Ensure That Any Invalid Fields Have A Red Bottom Border To Make It Easy For Users To Identify The Error In The Form	-	Normal Test	Red Border Bottom Below Any Fields That Contain Invalid Data	Expected	0:15-4:10
1.13	Ensure That No Error Messages Are Returned If All Details Are Valid	Valid Details	Normal Test	Redirect User To New Account Page	User Is Redirected To New Account Page	3:15
1.14	Ensure That The User Is Redirected To Their Account When They Click The "Get Started" Button	-	Normal Test	User Is Redirected To Their Account	Expected	4:19
1.15	Ensure That All The Valid Details Are Inserted Into The Database Successfully	-	Normal Test	Details Stored In The Database And The Customer Is Automatically Assigned A Primary Key	Expected	4:37
1.16	Ensure That The Customers Password Is Stored Encrypted In The Database Table	-	Normal Test	Password Is Encrypted In The Database Table	Expected	4:44

Customer "Steve Smith" Has Been Created For Testing Purposes

## 2. Login System - [https://youtu.be/i\\_KKwYx3glo](https://youtu.be/i_KKwYx3glo)

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Is Redirected To The Login Page When Button Is Clicked	-	Normal Test	Redirect To Login Page	Expected	0:20
1.02	Ensure That None Of The Fields Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Username Is Required"	Error Messages Displayed To The User	0:25
1.03	Ensure The User Has Selected Recaptcha To Ensure They Aren't A Robot	-	Normal Test	Error Message If Not Selected: "Recaptcha Must Be Selected"	Error Messages Displayed To The User	0:25
1.04	Check If The Username And Password Exist In The Database Table	Username: "Bob12" Password: "Bob12345"	Erroneous Test	Error Message: "Username/Email Or Password Is Incorrect"	Error Messages Displayed To The User	0:31
1.05	Redirect User To Their Account If Login Credentials Are Valid	Username: "Steve.Smith21" Password: "Steve1\$"	Normal Test	Redirect User To Their Account	Expected	0:59
1.06	Display A Welcome Message With The Customers Name Once Logged In	-	Normal Test	Box Containing Message: "Welcome To Your Account, Steve Smith"	Expected	1:25
1.07	Replace The Inner HTML Of The "Login" Button With "Account" And Change Button Colour	-	Normal Test	Inner HTML And Text Change Of The Login Button Once The User Has Logged In	Expected	1:33
1.08	Update User Status To Online In The Database Table	-	Normal Test	Status Updated From "Offline" To "Online"	Expected	1:40
1.09	Log Customer Out Of Account When They Press "Log Out"	-	Normal Test	Customer Is Logged Out And Is Returned To Homepage With A Message Saying "You Have Successfully Logged Out" And There Status Is Reset To "Offline" In The Database Table	Expected	2:04

### 3. Vehicle Registration - <https://youtu.be/13NVVmIO5W0>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Is Redirected To The Vehicle Registration Page When Button Is Clicked	-	Normal Test	Redirect To Vehicle Registration Page	Expected	0:15
1.02	Ensure That None Of The Fields Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Please Choose Your Vehicle Make"	Error Messages Displayed To The User	0:20
1.03	Check If A Vehicle Has Already Been Registered With The Inputted Registration Number	Registration Number: "OE08 KSO"	Erroneous Test	Error Message If Not Selected: "The Vehicle Registration Number Is Already Registered"	Error Messages Displayed To The User	0:25
1.04	Check If New Vehicle Registration Number Is In Valid Format	Registration Number: "FT6XLL5"	Erroneous Test	Error Message: "Vehicle Registration Number Is Invalid"	Error Messages Displayed To The User	0:47
1.05	Check If Mileage Is Negative	Current Mileage: "-1"	Boundary Test	Error Message: "Current Mileage Is Invalid"	Error Messages Displayed To The User	1:02
1.06	Check If Mileage Is Greater Than 999999	Current Mileage: "1000000"	Boundary Test	Error Message: "Current Mileage Is Invalid"	Error Messages Displayed To The User	1:12
1.07	Check If Mileage Contains Letters Or Symbols	Current Mileage: "1Steve1"	Erroneous Test	Error Message: "Current Mileage Is Invalid"	Error Messages Displayed To The User	1:22
1.08	Check If Both Last MOT Date Is Entered And MOT Exempt Is Entered	MOT Date: "2021-01-27" & Select MOT Exempt	Erroneous Test	Error Message: "Only Enter The Date Of The Last MOT / Select The Option Of Being Exempt Of MOT"	Error Messages Displayed To The User	1:31
1.09	Check If Last MOT Date Is Greater Than Current Date	MOT Date: "2021-01-28"	Boundary Test	Error Message: "Please Input A Valid Date"	Expected	1:50
1.10	Check If Last MOT Date Is Before 2019-01-01	MOT Date: "2018-12-31"	Boundary Test	Error Message: "Please Input A Valid Date"	Expected	2:05

1.11	Return No Errors If The Details Are All Valid	Valid Details	Normal Test	Redirect To Account And Display Message Of Success	Expected	2:25
1.12	Display The New Registered Vehicle Details In The Table On The Account Page And Display That The MOT Is Valid And Display The MOT Renewal Date	-	Normal Test	New Vehicle Details Are Displayed On Account Page And The MOT Renewal Date Is Displayed	Expected	3:06
1.13	Insert The Valid Details Into The Database Table	-	Normal Test	Details Inserted Into The Vehicles Details Table	Expected	3:25

#### 4. Update Vehicle Details - <https://youtu.be/qI1I6ySRag>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Is Redirected To The Update Vehicle Details Page When Button Is Clicked	-	Normal Test	Redirect To Update Vehicle Details Page	Expected	0:10
1.02	Prevent User From Accessing The Vehicle Details For Vehicles That Don't Belong To Them	URL: Change RegNumber=FT69%20DFG To RegNumber=FT62TZJ	Normal Test	Redirect User Back To Their Account Page	Expected	0:16
1.03	Check If New Vehicle Registration Number Is In Valid Format	Registration Number: "FT6XLL5"	Erroneous Test	Error Message: "Vehicle Registration Number Is Invalid"	Error Messages Displayed To The User	0:30
1.04	Check If A Vehicle Has Already Been Registered With The Inputted Registration Number	Registration Number: "FT62TZJ"	Erroneous Test	Error Message If Not Selected: "The Vehicle Registration Number Is Already Registered"	Error Messages Displayed To The User	0:40
1.05	Check If Mileage Is Negative	Updated Mileage: "-1"	Boundary Test	Error Message: "Updated Mileage Is Invalid"	Error Messages Displayed To The User	0:51
1.06	Check If Mileage Is Greater Than 999999	Updated Mileage: "1000000"	Boundary Test	Error Message: "Updated Mileage Is Invalid"	Error Messages Displayed To The User	1:01

1.07	Check If Mileage Contains Letters Or Symbols	Updated Mileage: "1Steve1"	Erroneous Test	Error Message: "Updated Mileage Is Invalid"	Error Messages Displayed To The User	1:08
1.08	Check If Updated MOT Date Is In The Future	MOT Date: "2021-01-28"	Boundary Test	Error Message: "Please Input A Valid Date"	Error Messages Displayed To The User	1:21
1.09	Check If Updated MOT Date Is Before The Current Inputted MOT Date	MOT Date: "2020-07-08"	Boundary Test	Error Message: "Please Input A Valid Date"	Error Messages Displayed To The User	1:41
1.10	Return No Errors If The Details Are All Valid	Valid Details	Normal Test	Redirect To Account And Display Message Of Success	Expected	1:58
1.11	Display The Updated Vehicle Details In The Table On The Account Page And Display Updated MOT Renewal Date	-	Normal Test	Updated Vehicle Details Are Displayed On Account Page And The Updated MOT Renewal Date Is Displayed	Expected	2:25
1.12	Update The Valid Details Into The Database Table For That Vehicle	-	Normal Test	Details Updated Into The Vehicles Details Table	Expected	2:40

## 5. Book New Appointment - [https://youtu.be/np5wY\\_8yg8k](https://youtu.be/np5wY_8yg8k)

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Is Redirected To The Booking Page When Button Is Clicked	-	Normal Test	Redirect To Booking Page	Expected	0:54
1.02	Check If User Has Selected The Vehicle Being Serviced	-	Erroneous Test	Error Message: "Please Select The Vehicle Being Serviced"	Error Messages Displayed To The User	1:01
1.03	Check If User Has Selected The Service Being Performed	-	Erroneous Test	Error Message: "Please Select The Service Being Performed"	Error Messages Displayed To The User	1:14
1.04	Prevent User From Booking On Sunday Or A Date In The Past	-	Normal Test	Red Unclickable Button To Indicate That Appointment Date Is Unavailable	Expected	1:26
1.05	Prevent Customers Booking In The Same Time Slot	-	Normal Test	Red Unclickable Button To Indicate That Appointment Time Is Unavailable	Expected	2:01

1.06	Check If User Has Changed The URL To An Invalid Date	Appointment Date: "2021-02-35"	Erroneous Test	Error Message: "You Have Selected An Invalid Date For Your Appointment"	Error Messages Displayed To The User	2:10
1.07	Check If User Has Changed The URL To A Past Date	Appointment Date: "2021-01-01"	Erroneous Test	Error Message: "You Have Selected An Invalid Date For Your Appointment"	Error Messages Displayed To The User	2:26
1.08	Check If User Has Changed The URL To A Date That Is Sunday	Appointment Date: "2020-02-07"	Erroneous Test	Error Message: "You Have Selected An Invalid Date For Your Appointment"	Error Messages Displayed To The User	2:47
1.09	Allow The User To Pay Online If Option Is Selected	Select Payment	Normal Test	Redirect User To Payment Page	Expected	3:24
1.10	Ensure That None Of The Fields On The Payment Form Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Please Enter The Cardholders Name"	Error Messages Displayed To The User	3:34
1.11	Ensure That The Cardholders Name Doesn't Contain Numbers Or Symbols	Cardholders Name: Steve-Smith1\$	Erroneous Test	Error Message: "Cardholders Name Can Only Contain Letters"	Error Messages Displayed To The User	3:41
1.12	Ensure That The Card Number Is In A Valid Format	Card Number: 1765 8172 6271 8171	Erroneous Test	Error Message: "Card Number is Invalid"	Error Messages Displayed To The User	4:00
1.13	Ensure That Card Expiry Date Contains Only Numbers	Expiry Date: SS/SSSS	Erroneous Test	Error Message: "The Month Of Your Cards Expiry Date Is Invalid" & "The Year Of Your Cards Expiry Date Is Invalid"	Error Messages Displayed To The User	4:22
1.14	Ensure That Card Expiry Month Has Length 2	Expiry Date: 2/021	Boundary Test	Error Message: "The Month Of The Card Expiry Date Must Be In Format MM"	Error Messages Displayed To The User	4:41
1.15	Ensure That Card Expiry Year Has Length 4	Expiry Date: 2/021	Boundary Test	Error Message: "The Year Of The Expiry Date Of Your Card Is Invalid"	Error Messages Displayed To The User	4:44
1.16	Ensure That Card Expiry Month Is Between 01 and 12	Expiry Date: 13/2020	Boundary Test	Error Message: "The Month Of The Expiry Date Of Your Card Is Invalid"	Error Messages Displayed To The User	4:58

1.17	Ensure That The Card Expiry Year Isn't In The Past	Expiry Date: 13/2020	Boundary Test	Error Message: "The Year Of The Expiry Date Of Your Card Is Invalid"	Error Messages Displayed To The User	5:01
1.18	Ensure That CVV Contains Only Numbers	CVV: ANS	Erroneous Test	Error Message: "The Card Verification Value (CVV) Is Invalid"	Error Messages Displayed To The User	5:14
1.19	Ensure That CVV Is 3 Characters In Length	CVV: 12	Boundary Test	Error Message: "The Card Verification Value (CVV) Is Invalid"	Error Messages Displayed To The User	5:26
1.20	Check If User is Redirected To A Booking Confirmation Page If All Payments Details Are Valid	-	Normal Test	User Is Redirected To A Booking Confirmation Page With Appointment Related Information	Expected	5:38
1.21	Ensure That An Invoice Is Automatically Generated With Appointment Details, Payment Details And QR Code	-	Normal Test	User Is Directed To An Invoice Page When Button Is Clicked Which The User Is Able To Download	Expected	6:32
1.22	New Appointment And Payment Details Are Updated Inside The Users Account Page	-	Normal Test	The Upcoming Appointment Table Are Updated With The Details Of The Appointment And Buttons To Change/Cancel The Appointment	Expected	7:17
1.23	Prevent User From Entering The Booking Page After They have Booked The Appointment To Prevent A Customer Booking More Than One Appointment At Once	-	Normal Test	User Is Identified With A Message If They Attempt To Return To The Booking Page After Booking Their Appointment	Expected	7:44
1.24	New Appointment Details Are Inserted Inside The Database Tables	-	Normal Test	The Appointment Details Are Inserted Into The Appointmentdetails Table and In The Meachanics_On_A5p ointment Table And A Mechanic Is Assigned To The Appointment	Expected	8:00

1.25	New Payment Details Are Inserted Inside The Database	-	Normal Test	The Payment Details Are Inserted Into The Table With A Foreign Key To Identify Which Appointment The Payment Belongs To	Expected	8:20
1.26	The Hours Worked By The Mechanic Is Updated	-	Normal Test	Total Hours Worked By Mechanic Are Updated	Expected	8:44

## 6. Change Appointment - [https://youtu.be/1oMifN\\_A9\\_0](https://youtu.be/1oMifN_A9_0)

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Is Redirected To The Booking Page When Button Is Clicked	-	Normal Test	Redirect To Booking Page	Expected	0:44
1.02	Check If User Attempts To Access An Appointment With ID That They Haven't Booked By Changing The URL	URL: AppointmentID=1	Erroneous Test	Redirect To Account	Expected	0:49
1.03	Check If User Has Selected The New Service Being Performed	-	Erroneous Test	Error Message: "Please Select The Service For Your Appointment"	Error Messages Displayed To The User	1:00
1.04	Allow User To Change Service	Service: Number Plate	Normal Test	Change Service Of The Appointment	Expected	1:03
1.05	Cancel Payment If User Changes Service	-	Normal Test	Delete Payment Once Service Is Changed	Expected	1:34
1.06	Check If New Mechanic Has Been Assigned To The Appointment And The Appointment Details Have Been Updated Into The Database Tables	-	Normal Test	New Mechanic Assigned To The Appointment And Previous Mechanics Total Hours Worked Is Reduced By The Duration Of Hours The Original Appointment That The User Booked.	Expected	1:38
1.07	Prevent User From Changing The Appointment Date To A Sunday	Appointment Date: 2021-02-07	Erroneous Test	Error Message: "You Have Selected An Invalid Date For Your Appointment"	Error Messages Displayed To The User	2:43

1.08	Prevent User From Changing The Appointment Date To One That Doesn't Exist	Appointment Date: 2021-02-35	Erroneous Test	Error Message: "You Have Selected An Invalid Date For Your Appointment"	Error Messages Displayed To The User	3:08
1.09	Prevent User From Changing The Appointment Date To One That Is In The Past	Appointment Date: 2020-03-23	Erroneous Test	Error Message: "You Have Selected An Invalid Date For Your Appointment"	Error Messages Displayed To The User	3:21
1.10	Change Appointment Date And Time	Appointment Date: 2021-02-01 Appointment Time: 14:00PM-14:30PM	Normal Test	Change Appointment Date And Time And Insert These New Details Into The Database Table	Expected	3:35
1.11	Prevent The User From Changing The Appointment Date When Only Changing The Appointments Time	Appointment Date: 2020-03-23	Normal Test	Don't Change The Appointment Date If The User Attempts To Change The Date In The URL	Expected	4:15
1.12	Change Only Appointment Time	Appointment Time: 18:00PM-18:30PM	Normal Test	Change Appointment Time Only And Update The Details Into The Database	Expected	4:34
1.13	Ensure That None Of The Fields On The Payment Form Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Please Enter The Cardholders Name"	Error Messages Displayed To The User	5:10
1.14	Ensure That The Cardholders Name Doesn't Contain Numbers Or Symbols	Cardholders Name: Steve-Smith1\$	Erroneous Test	Error Message: "Cardholders Name Can Only Contain Letters"	Error Messages Displayed To The User	5:14
1.15	Ensure That The Card Number Is In A Valid Format	Card Number: 1234 5678 9101 1121	Erroneous Test	Error Message: "Card Number is Invalid"	Error Messages Displayed To The User	5:28
1.16	Ensure That Card Expiry Date Contains Only Numbers	Expiry Date: ss/ssss	Erroneous Test	Error Message: "The Month Of Your Cards Expiry Date Is Invalid" & "The Year Of Your Cards Expiry Date Is Invalid"	Error Messages Displayed To The User	5:44
1.17	Ensure That Card Expiry Month Has Length 2	Expiry Date: 2/021	Boundary Test	Error Message: "The Month Of The Card Expiry Date Must Be In Format MM"	Error Messages Displayed To The User	5:58

1.18	Ensure That Card Expiry Year Has Length 4	Expiry Date: 2/021	Boundary Test	Error Message: "The Year Of The Card Expiry Date Must Be In Format YYYY"	Error Messages Displayed To The User	6:00
1.19	Ensure That Card Expiry Month Is Between 01 and 12	Expiry Date: 13/2020	Boundary Test	Error Message: "The Month Of The Expiry Date Of Your Card Is Invalid"	Error Messages Displayed To The User	6:14
1.20	Ensure That The Card Expiry Year Isn't In The Past	Expiry Date: 12/2020	Boundary Test	Error Message: "Your Card Has Expired"	Error Messages Displayed To The User	6:34
1.21	Ensure That CVV Contains Only Numbers	CVV: ANS	Erroneous Test	Error Message: "The Card Verification Value (CVV) Is Invalid"	Error Messages Displayed To The User	6:46
1.22	Ensure That CVV Is 3 Characters In Length	CVV: 12	Boundary Test	Error Message: "The Card Verification Value (CVV) Is Invalid"	Error Messages Displayed To The User	6:58
1.23	Complete The Payment For The Appointment If All Details Inserted Are Valid	-	Normal Test	User Is Redirected To Their Account Once The Form Is Completed With A Message To Notify The User That The Payment Was Completed Successfully	Expected	7:09
1.24	Check If The Payment Field In The Appointment Table Has Been Updated To 1 From 0 Once Payment Is Completed	-	Boundary Test	Update Payment Field From 0 to 1 Once Payment Is Complete And Insert The Payment Details Into The Payments Table	Expected	8:06

## 7. Change Account Details - [https://youtu.be/RuGzWZ\\_0\\_bI](https://youtu.be/RuGzWZ_0_bI)

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Is Redirected To The Booking Page When Button Is Clicked	-	Normal Test	Redirect To Booking Page	Expected	0:19
1.02	Prevent The User From Changing Their First/Last Name	-	Normal Test	User Can Read Their First And Last Name But Not Edit It	Expected	0:23

1.03	Prevent The User From Changing Any Account Details Without Entering Their Current Password	Username: Steve.Smith1	Erroneous Test	Error Message: "Enter Your Current Password"	Error Messages Displayed To The User	0:32
1.04	Check If The User Has Left The Email Empty	-	Erroneous Test	Error Message: "Email Address Is Required"	Error Messages Displayed To The User	0:42
1.05	Check If The User Has Left The Username Empty	-	Erroneous Test	Error Message: "Username Is Required"	Error Messages Displayed To The User	0:47
1.06	Check If The User Has Left The Phone Number Empty	-	Erroneous Test	Error Message: "Phone Number Is Required"	Error Messages Displayed To The User	0:53
1.07	Prevent The User From Changing The Email To One That Already Exists In The Database	Email: "S1900762@leyton.ac.uk"	Erroneous Test	Error Message: "An Account With This Email Address Already Exists"	Error Messages Displayed To The User	1:02
1.08	Prevent The User From Changing The Username To One That Already Exists In The Database	Username: "S1900762"	Erroneous Test	Error Message: "An Account With This Username Already Exists"	Error Messages Displayed To The User	1:16
1.09	Check If Username Is Less Than 6 Character In Length	New Username: "Steve"	Boundary Test	Error Message: "Username Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	1:29
1.10	Check If Username Is More Than 15 Character In Length	New Username: "Steven_Smit h2021"	Boundary Test	Error Message: "Username Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	1:37
1.11	Detect If Caps Lock Is On When Entering Current Password	CAPS LOCKS ON	Normal Test	Caps Lock Text And Circle Turn To Red	Expected	1:50
1.12	Detect If Caps Lock Is On When Entering New Passwords	CAPS LOCKS ON	Normal Test	Caps Lock Text And Circle Turn To Red	Expected	1:55
1.13	Check If Password Is Less Than 6 Character In Length	New Password: "Bob12"	Boundary Test	Error Message: "New Password Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	2:13
1.14	Check If Password Is More Than 15 Character In Length	New Password: "Stevensmith1 2345"	Boundary Test	Error Message: "Username Must Be 6 To 15 Characters In Length"	Error Message Displayed To The User	2:36

1.15	Check Password Strength. It Must Contain At Least One Lowercase Letter, One Uppercase Letter And A Number	New Password: "Stevensmith" Confirm New Password: "Stevensmith"	Boundary Test	Error Message: "Please Choose Another Password As This Password Is Weak"	Error Message Displayed To The User	2:56
1.16	Check If Both New Passwords Match	New Password: "Steve2021" Confirm New Password: "Steve2020"	Erroneous Test	Error Message: "New Passwords Don't Match"	Error Message Displayed To The User	3:12
1.17	Check If Current Password Is Correct	Current Password: "Steve1£"	Erroneous Test	Error Message: "Current Password Is Incorrect"	Error Message Displayed To The User	3:29
1.18	Check If New Password Is Same As Current Password	Current Password: "Steve1\$" New Password: "Steve1\$" Confirm New Password: "Steve1\$"	Erroneous Test	Error Message: "New Password Cannot Be Same As Your Current Password"	Error Message Displayed To The User	3:45
1.19	Check If Phone Number Contains Letters Or Special Characters	Phone Number: 073abc5678\$	Erroneous Test	Error Message: "Phone Number Is Invalid"	Error Message Displayed To The User	4:02
1.20	Check If Phone Numbers Length Is <> 11	Phone Number: 073057586740	Boundary Test	Error Message: "Phone Number Is Invalid"	Error Message Displayed To The User	4:14
1.21	Ensure That Any Invalid Fields Have A Red Bottom Border To Make It Easy For Users To Identify The Error In The Form	Invalid Details	Normal Test	Red Border Bottom Below Any Fields That Contain Invalid Data	Expected	0:37-5:16
1.22	Ensure That No Error Messages Are Returned If All Details Are Valid	Valid Details	Normal Test	User Is Redirected To The Login Page To Log In With The New Details	Expected	4:28
1.23	Ensure That All The Valid Details Are Updated In The Database	-	Normal Test	Details Are Updated In The Database For Customer With ID=5	Expected	5:27
1.24	Ensure That Updated Password Is Encrypted In The Database	-	Normal Test	Updated Password Is Encrypted	Expected	5:34

1.25	The User Should Be Able To Login To Their Account With Their New Login Credentials	-	Normal Test	User Is Redirected To Their Account	Expected	5:40
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## 8. Cancel Appointment - <https://youtu.be/IUYbRJ4ezJU>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Can Only Cancel Their Upcoming Appointment	-	Normal Test	No Button To Cancel Previous Appointments	Expected	0:04
1.02	Confirm The Appointment Cancellation With A Message	-	Normal Test	Message On Account Page To Notify The User That The Details Have Been Updated Successfully	Expected	0:46
1.03	Remove Appointment When User Clicks The Button	-	Normal Test	Appointment Is Removed From The Account	Expected	0:52
1.04	Cancel The Payment For That Appointment If Payment Was Made	-	Normal Test	Payment Is Removed From The Account	Expected	0:58
1.05	Remove Appointment, Payment And Mechanic_On_Appointment Record From The Database	-	Normal Test	Record For That Appointment Are Deleted	Expected	1:05
1.06	Update The Total Hours Worked By That Mechanic Once Appointment Is Cancelled	-	Normal Test	Deduct The Duration Of The Service That The User Had Booked The Appointment For From The Total Hours Worked By That Mechanic	Expected	1:18

## 9. Delete Vehicle - <https://youtu.be/UT1dV3U-iPA>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	A Button Is Visible Which The User Can Click To Delete The Vehicle Details	-	Normal Test	Red Button Visible Next To The Details Of That Vehicle	Expected	0:03

1.02	Confirm The Vehicle Deletion With A Message	-	Normal Test	Message On Account Page To Notify The User That The Details Have Been Updated Successfully	Expected	0:21
1.03	Delete The Vehicle From The Users Account Once Button Is Clicked	-	Normal Test	The Vehicles Record Is Removed From The Account And Database	Expected	0:32

## 10. Logout System - <https://youtu.be/ZLqd8jgr43I>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	A Clickable Button Is Visible Which The User Can Click To Logout	-	Normal Test	Red Button Visible On The Navigation Bar	Expected	0:03
1.02	Display A Message To Notify The User They Have Logged Out	-	Normal Test	Redirect To Home And Display A Message To The User Notifying Them They Have Logged Out	Expected	0:16
1.03	Check If Their Status In The Customer Details Table Has Been Set To Offline	-	Normal Test	Status Changes From Online To Offline	Expected	0:25
1.04	Prevent The User From Entering Account Without Logging In	URL: "localhost/ComputerScienceNEA/Account"	Normal Test	Redirect User To The Login Page When User Attempts To Enter Account	Expected	0:35

## 11. Contact Us - <https://youtu.be/FP544B5BV88>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	User Is Redirected To The Contact Page When Button Is Clicked	-	Normal Test	Redirect To Contact Page When Clicked On Navigation Bar	Expected	0:13
1.02	Ensure That None Of The Fields Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Full Name Is Required"	Error Messages Displayed To The User	0:18

1.03	Ensure That The User Name Contains Only Letters	Full Name: "Steve_Smith1"	Erroneous Test	Error Message: "Name Can Only Contain Letters"	Error Messages Displayed To The User	0:22
1.04	Ensure That The Email Address Format Is Valid	Email: "Steve@.com"	Erroneous Test	Error Message: "Email Address Format Is Invalid"	Error Messages Displayed To The User	0:35
1.05	Ensure That The Subject Of The Email Contains No Abusive Language	Subject: "Idiot"	Erroneous Test	Error Message: "Abusive Language Has Been Detected In The Subject"	Error Messages Displayed To The User	0:44
1.06	Ensure That The Message Of The Email Contains No Abusive Language	Message: "disgusting"	Erroneous Test	Error Message: "Abusive Language Has Been Detected In The Message"	Error Messages Displayed To The User	0:52
1.07	Ensure That The Message Is At Least 10 Characters In Length	Message: "hello abc"	Boundary Test	Error Message: "Message Must Be At Least 10 Characters In Length"	Error Messages Displayed To The User	1:00
1.08	No Errors Should Be Displayed If All Inputs Are Valid	Valid Details	Normal Test	Message Is Displayed To Notify The User That The Email Has Been Delivered Successfully	Expected	1:14
1.09	Check If The Email Has Been Sent To The MOT Centres Email Address	-	Normal Test	Email Successfully Delivered To The MOT Centres Email Address	Expected	2:19

## 12. Admin Login System - <https://youtu.be/Y1XDDmPjCYQ>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Admin Is Redirected To The Login Page When Button Is Clicked	-	Normal Test	Redirect To Login Page	Expected	0:16
1.02	Ensure That None Of The Fields Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Username Is Required"	Error Messages Displayed To The User	0:21
1.03	Ensure The Admin Has Selected Recaptcha To Ensure They Aren't A Robot	-	Normal Test	Error Message If Not Selected: "Recaptcha Must Be Selected"	Error Messages Displayed To The User	0:21

1.04	Check If The Username And Password Exist In The Database Table	Username: "Bob12" Password: "Bob12345"	Erroneous Test	Error Message: "Username/Email Or Password Is Incorrect"	Error Messages Displayed To The User	0:26
1.05	Redirect Admin To Their Account If Login Credentials Are Valid	Username: "Admin_1" Password: "Admin1"	Normal Test	Redirect Admin To The PIN Number Page	Expected	0:47
1.06	Prevent The Admin From Entering The Account Without Entering The Admin PIN Number	URL: "localhost/ComputerScienceNEA/AdminAccount"	Normal Test	Redirect Admin To The PIN Number Page	Expected	1:18
1.07	Return Error Message If The PIN Is Empty	-	Erroneous Test	Error Message: "Invalid Admin Account Pin Number"	Error Messages Displayed To The User	1:30
1.08	Return Error Message If The PIN Is Invalid	PIN: "000000"	Erroneous Test	Error Message: "Invalid Admin Account Pin Number"	Error Messages Displayed To The User	1:37
1.09	Prevent Admin From Typing PIN For 60 Seconds	-	Normal Test	Error Message: "Invalid Admin Account Pin Number"	Error Messages Displayed To The User	1:56
1.10	Redirect Admin To Their Account If PIN Is Valid	PIN: "090703"	Normal Test	Redirect Admin To Their Account	Expected	3:01
1.11	Check If Admin Status Has Been Updated To Online	-	Normal Test	Update Admin Status As "Online" In The Database	Expected	3:25

### 13. Delete Customer - <https://youtu.be/LQfJU02642A>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Admin Is Redirected To The Customer Details When Button Is Clicked	-	Normal Test	Redirect To Customer Details Page	Expected	0:03
1.02	Admin Should Be Able To See A Clickable Button Next To Each Customer To Delete Them	-	Normal Test	Red Clickable Button With Text DELETE Displayed To Admin	Expected	0:04
1.03	Admin Is Displayed A Confirmation Message When They Click The Delete Button	-	Normal Test	A Confirmation Message is Displayed To the Admin	Expected	0:59

1.04	Ensure That Customer Is Not Deleted If Admin Clicks The Option NO	-	Normal Test	Customer Isn't Deleted From the Database	Expected	1:01
1.05	Ensure That Customer Is Deleted If Admin Clicks Option YES	-	Normal Test	Customers Record Is Removed From The Customer Details Page	Expected	1:11
1.06	Ensure That Customers Record And All Associated Records Such As Booked Appointments, Payments And Vehicles Are Deleted Once The Customer Is Deleted	-	Normal Test	Customer And Associated Records Are Deleted From The Database	Expected	1:20

#### 14. Add New Service - <https://youtu.be/756uzeYfRx8>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Admin Is Redirected To The Service Details When Button Is Clicked	-	Normal Test	Redirect To Service Details Page	Expected	0:18
1.02	Ensure That None of The Fields Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Service Name Is Required"	Error Messages Displayed To The User	0:26
1.03	Ensure That The Service Name Contains Only Letters	Service Name: "2MOT!"	Erroneous Test	Error Message: "Service Name Cannot Contain Numbers Or Symbols"	Error Messages Displayed To The User	0:33
1.04	Ensure A Service Doesn't Already Exist With That Name	Service Name: "Interim Service"	Erroneous Test	Error Message: "A Service With This Name Already Exists"	Error Messages Displayed To The User	0:42
1.05	Ensure The Service Duration Isn't Negative	Service Duration: "-1"	Boundary Test	Error Message: "Service Duration Cannot Be Negative"	Error Messages Displayed To The User	1:01
1.06	Ensure The Service Duration Contains Only Numbers	Service Duration: "TEN"	Erroneous Test	Error Message: "Please Enter A Number"	Error Messages Displayed To The User	1:12

1.07	Ensure The Service Price Isn't Negative	Service Duration: "-1"	Boundary Test	Error Message: "Service Price Cannot Be Negative"	Error Messages Displayed To The User	1:19
1.08	Ensure The Service Price Contains Only Numbers	Service Price: "TEN"	Erroneous Test	Error Message: "Please Enter A Number"	Error Messages Displayed To The User	1:26
1.09	Return No Error Messages If All Inputs Are Valid	Valid Details	Normal Test	Message Is Displayed To The User That The Service Has Been Inserted Successfully Once The Form Is Submitted	Expected	1:33
1.10	Check If The New Service Has Been Inserted Into The Websites Service Page And Managers Account	-	Normal Test	The New Service Is Displayed In The Websites Service Page	Expected	2:00
1.11	Check If The New Service Has Been Inserted Into The Database	-	Normal Test	The New Service Is Inserted In The Service Table In The Database	Expected	2:27

## 15. Delete Service - [https://youtu.be/orIA0\\_mvIEU](https://youtu.be/orIA0_mvIEU)

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Admin Is Redirected To The Service Details When Button Is Clicked	-	Normal Test	Redirect To Service Details Page	Expected	0:11
1.02	Admin Should Be Able To See A Clickable Button Next To Each Service To Remove Them	-	Normal Test	Red Clickable Button With Text REMOVE Displayed To Admin	Expected	0:13
1.03	Admin Is Displayed A Confirmation Message When They Click The Remove Button	-	Normal Test	A Confirmation Message is Displayed To the Admin	Expected	0:22
1.04	Ensure That The Service Is Removed From The Admin Account	-	Normal Test	Service Is Removed From Admin Account	Expected	0:27
1.05	Ensure That The Service Is Removed From The Database	-	Normal Test	Service Is Removed From The Database	Expected	0:36

## 16. Add New Mechanic - <https://youtu.be/XGjlxFVrpjE>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Admin Is Redirected To The Mechanic Details When Button Is Clicked	-	Normal Test	Redirect To Mechanic Details Page	Expected	0:12
1.02	Ensure That None of The Fields Are Left Empty	-	Erroneous Test	Return Error Messages Specifying Which Fields Are Required e.g., "Mechanic Name Is Required"	Error Messages Displayed To The User	0:21
1.03	Ensure That The Mechanic Name Contains Only Letters	Mechanic Name: "1STEVE!"	Erroneous Test	Error Message: "Name Cannot Contain Numbers Or Symbols"	Error Messages Displayed To The User	0:29
1.04	Ensure No Errors Are Returned If The Mechanic Details Are Valid	Valid Details	Normal Test	The Details Of The New Mechanic Are Displayed In The Table Once Form Is Submitted	Expected	0:40
1.05	Display A Confirmation Message If Mechanic Is Successfully Inserted	Valid Details	Normal Test	Message Is Displayed To The User That The New Mechanic Has Been Inserted Successfully	Expected	1:00
1.06	Ensure The Mechanics Details Have Been Inserted Into The Database	-	Normal Test	Mechanics Details Are Inserted Into The Database	Expected	1:14

## 17. Manager Report - [https://youtu.be/\\_xRURxJnIDk](https://youtu.be/_xRURxJnIDk)

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Admin Should Be Able To Access Report When View Button Is Clicked	-	Normal Test	Redirect To Report	Expected	0:30
1.02	Report Should Include Appointment Details And Comparisons For The Current Month Against Last Month's Performance	-	Normal Test	Contain Comparisons On The Number Of Bookings And The Percentage Change In Total Revenue	Expected	0:33
1.03	Admin Should Be Able To Download Invoice When Download Button Is Clicked	-	Normal Test	Display The Option To Download Report As A PDF	Expected	1:11

## 18. Other General Functions -

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Video Link
1.01	User Can Contact MOT Centre Via Phone, SMS Or Email	-	Normal Test	Redirect To Phone, Email Or SMS When Button Is Clicked	Expected	<a href="https://youtu.be/DnZkpB06Q44">https://youtu.be/DnZkpB06Q44</a>
1.02	User Can View Information About Different Services Provided At The MOT Centre And Their Purpose And What Is Included In Them	-	Normal Test	Page For Services Provided At The MOT Centre And Their Pricing Is Included In The Website	Expected	<a href="https://youtu.be/BWms6VorC04">https://youtu.be/BWms6VorC04</a>
1.03	Automatic Slideshow Of Images And Customer Reviews	-	Normal Test	Homepage Contains An Automatic Slideshow Of Images And Customer Reviews	Expected	<a href="https://youtu.be/Yct-ZHZNCoc">https://youtu.be/Yct-ZHZNCoc</a>
1.04	When Creating An Account, The User Is Told Their Password Strength As They Type	Password: "STEVE1\$"	Normal Test	Password Strength Is Displayed As Strong As Password Contains An uppercase Letter, lowercase Letter And A Special Character	Expected	<a href="https://youtu.be/RDzbETHneuc">https://youtu.be/RDzbETHneuc</a>
1.05	User Must Be Able To Easily Navigate Themselves Around The Website	-	Normal Test	All Pages Contain Buttons That Can Be Clicked To Access Various Parts of The Website	Expected	<a href="https://youtu.be/X7GL6gzwtEE">https://youtu.be/X7GL6gzwtEE</a>
1.06	Ensure That All Backgrounds Used In The Website Are Designed By Myself To Prevent The Use Of Any Copyright Material	-	Normal Test	The User Has Designed All Backgrounds Themselves Using Adobe Illustrator	Expected	<a href="https://youtu.be/Na-u8CGkugQ">https://youtu.be/Na-u8CGkugQ</a>

## 5 EVALUATION:

### 5.1 Effectiveness Of Solution

Overall, I have successfully been able to implement several key functionalities into the new system which would help the MOT centre increase their operational efficiency as it eliminates the requirement for appointments to be booked in-person or over the phone with the records being automatically stored onto a database rather than the previous system where they were inserted manually into a diary. With this new system, customers can easily create an account, book appointments, make online payments, cancel appointments, view their appointment booking history and change appointment details thus addressing all the previous issues the MOT centre previously faced. Also, users can send feedback or questions to the email of the MOT centre with ease hence preventing any hassle that they had to previously confront.

Similarly, the new system also helps to overcome the problems faced by the staff and manager as the manager has their own account from which they can view the monthly report, upcoming and past appointment of the current month, customer details plus service and mechanic details. Hence, this would significantly reduce the risk and weaknesses they had faced in the past booking system which was all manual, unprofessional and unreliable as it failed to address issues that may arise such as appointments overlapping or being booked in the same time slot.

Therefore, the outcome of this project should hopefully improve the productivity within the MOT centre and help expand their business with a better and more integrated system which is highly secure, professional and easy to use for both the staff and customers.

### 5.2 Evaluation Against Each Objective

#### Objectives Completed: 14/14

1. Homepage where users can navigate themselves to different parts of the website with a simple yet polished layout and a table with the MOT centres time schedule.

When the user enters the website, the first page they view is the homepage with a four button navigation bar that redirects them to other parts of the website such as the 'Contact Us' or 'Login' page. On the homepage, there is a slideshow of images, a table with the MOT centres time schedule, a customer reviews section and an about us section all divided into separate boxes to give the page a polished and professional layout. There is also a footer in the page with the social links for the MOT centre which enhances the professionalism of the page. The colours used throughout the system have been consistent and are relevant

to the MOT centre which has enabled me to produce a homogenous and clean result as all the pages look linked and related.

**2. A page which contains all the information on the types of services, the cost of each and why the service is required**

The user can access the 'Services' page from the navigation bar on the homepage with the page containing the details of the main services that are booked, their purpose and process with images placed beside the descriptions to display which parts of the vehicle the services are focused on. Also, at the bottom of the page is a pricing and service duration table with the data being retrieved from the database hence the table updates in real-time as services are inserted/deleted from the system by the manager.

**3. The system should have a contact page for users which should contain:**

- a. Google Maps location of the MOT Centre**
- b. Contact details of the MOT Centre**
- c. A form for users to send any feedback and question**

The website contains a 'Contact Us' page that can be accessed from any page through the navigation bar. This page has an embedded map with the location marked at the MOT centre which has been inserted through google services as well as icons which represent the various ways that users can contact the MOT centre and can be clicked to redirect them to their email, message or keypad. Finally, the 'Contact Us' page contains a FAQ form which is validated thoroughly and the user can fill it out with the email being sent to the MOT centre and a confirmation message displayed to the user.

**4. Prevent unauthorised access into the accounts of users through the use of a secure login system with a ReCaptcha to ensure the user isn't a robot**

The login system in the website has been created with full security ensured such as the user being unable to access their account without logging in or preventing them from returning to their account once they have logged out without logging in again. Also, through google services, I have been able to add ReCaptcha into the login system which verifies if the user is human or robot which optimises the security of the login system.

**5. A Signup system to allow users to register an account after inserting the following details:**

- a. Ask for First and Last Name**
- b. Ask for Email Address**
- c. Ask for Phone Number**
- d. Ask for Gender**
- e. Create a Username and Password**
- f. Prevent a Username or Email being used more than once**
- g. Allow the user to change Username, Password and Email**

The signup system in the website contains all the validations mentioned above as the user is required to complete all the fields with valid inputs such as only letters in the first/last name and a valid email address format. Also, the inputted username and email is checked to see if an account already exists in the database with those details in order to prevent multiple accounts being registered with the same username as this would have resulted in many issues arising in the system. Also, once the user has created an account, they are able to change the username, password, email and phone number through their account which is also similarly validated and the record is updated into the appropriate database table.

**6. All forms should use validation to ensure the user inputs are valid using the following checks:**

- a. Length Check**
- b. Presence Check**
- c. Format Check**
- d. Duplicate Entry Check**

All forms in the system are heavily validated such as length check when creating/updating the username and password or if any of the fields are empty, presence check when inserting the first/last name as well as in other forms such as the card number, card expiry date and CVV number when making a payment, format check when inserting/updating the vehicle registration number, checking if the card number matches a format of any real-life card providers e.g., VISA, MasterCard etc. plus the format check of the email address when creating/updating your account details or when sending an FAQ. Finally, duplicate entry checks are also performed when inserting/updating the username, email, vehicle registration number and to prevent multiple payments being made for the same appointment by preventing the user from making a payment if already made.

**7. While inserting inside the database table the customer details when a new account is created, the password must be encrypted to ensure security and protection of the users details**

Through the uses of a PHP function, the password is hashed before being inserted inside the table to ensure that the accounts of the customers remain fully secure even if the database was to be intercepted by a third party. Hence, when the user is logging into their account, only the username is checked to see if it exists in the database and if it does, the password is then verified through a PHP function rather than it being checked in the database as the password is in an encrypted format.

**8. An interface that allows for the user to access the following:**

- a. Register a Vehicle**

- b. Edit and delete the Vehicle
- c. Book an appointment
- d. Choose date/time/ service type of service of appointment
- e. View history of all booked appointment
- f. Alter their appointment
- g. Cancel their appointment
- h. Access and modify their account details

The main account page allows the logged in user to access the main features of the website with a different navigation bar with four buttons which redirect the user to other pages that allows them to register their vehicles to their account, book an appointment, change their account details or log out of their account. Also, the main account page contains several tables that contains all appointment/payment history and the details of the vehicles registered by the user. Next to some of these records are buttons which redirect the user based on what they click to either change their upcoming appointments/vehicles details or to cancel/delete them. Finally, if the customer chooses to book an appointment, they will be redirected to a page containing a multi-step form where they select the vehicle being serviced, the service type, appointment date/time and the payment form if they select to pay online. If the user chooses to log out, they are redirected back to the homepage and the session is destroyed to prevent the user from entering this page without them logging-in with their valid credentials again.

**9. Once an appointment is booked, a dynamic invoice should be produced for the appointment containing payment and appointment details.**

If the appointment has successfully been booked, the user is redirected to an appointment confirmation page that contains two buttons which allow the user to either view or download the appointment invoice. This invoice is dynamic and is automatically generated by retrieving the details for the booked appointment from the appropriate database tables. The invoice contains the customer details and both the appointment and payment details if the payment was made online. Alongside this, a fully functioning QR code is automatically generated which uniquely identifies the Appointment ID of the invoice when scanned. Therefore, when the view button is clicked, the user is redirected to this PDF invoice that contains all these details and the page is only accessible after the appointment booking is completed.

**10. The system should allow the manager to:**

- a. View appointments in the current month though the database
- b. View the details of customers registered at the MOT Centre
- c. View and insert the details of the mechanics employed at the MOT Centre

- d. View, insert and delete the details of the services provided at the MOT Centre
- e. Calculate revenue through the database
- f. Produce a manager report that includes all the appointments and earning of the month

When the manager logs in with their credentials, they are redirected to another interface which is different to the customer interface. From this restricted access account, the manager can view the appointments that have passed or are upcoming in the current month as well as appointments scheduled for the current day, a calculator which outputs the amount of corporate tax due based on the tax percentage, total revenue and total costs. Also, both below and beside the table containing the appointments scheduled for the current month is the total revenue of the current month which is calculated based on the prices of the services that have been booked. The account also contains a navigation bar with four buttons from where the manager can view/delete the details of customers that have accounts registered at the MOT centre, view/insert/delete the services that are provided at the MOT centre as well as view/insert mechanics into the database. Finally, the account also contains two buttons for the manager to either view or download the report for the current month which contains the details of the appointments booked in the current month, the number of hours worked by the mechanics in the current month, the total/average revenue, the month-on-month percentage change in total revenue and appointments booked as well as a pie chart that shows the proportion of appointments that contain a particular service in comparison to the total booked services in the current month.

- 11. The system must prevent a customer from booking multiple appointments at the same time slot and user can only book one appointment at a time while also prevent them from booking an appointment for a date in the past

When the user clicks on the option to book an appointment , the user is either redirected to the booking page if they don't already have any scheduled upcoming appointments or an error message is displayed if they have already booked an upcoming appointment and they are redirected back to their account. When selecting the appointment date, the user is unable to book appointments for a past date or for a Sunday as this is prevented by red unclickable buttons being displayed for these certain dates whereas on any valid dates, a green button is displayed which the user can click to display the time slots available for the selected date. Similarly, when selecting the time slot for the appointment, through the use of an SQL query the user is prevented from choosing a time that has already been booked as a red unclickable button is displayed for that slot while all the other available slots are represented by green buttons which the user can click to be redirected to the appointment summary

page. Hence, the new system prevents customers from booking multiple upcoming appointments or selecting an invalid date for the appointment as well as preventing different customers from booking an appointment in the same time slot as each other.

**12. The website must connect to a database to allow data to be inputted, selected, updated and deleted from the following tables:**

- a. Customer Details Table**
- b. Vehicle Details Table**
- c. Appointment Details Table**
- d. Payment Details Table**
- e. Mechanics Details Table**
- f. Service Details Table**

Through the creating of a connection between the database and the website, the new system is able to insert, select, update and delete details into each of the database tables. Before inserting or updating details, all the details are validated to ensure the inputs are correct. Similarly, before deleting/updating certain details such as before the manager deletes a customer or when the appointment details are being changed, a confirmation message is displayed that asks them to reconfirm the command to prevent any records being deleted or updated incorrectly as actions such as deleting a customer would have a significant impact on the database as all the records for that customer will be deleted from each table.

**13. The system should be able to do the following from the database:**

- a. Filter Data**
- b. Search Data**
- c. Order Data**

The customer's account is completely filtered to show data that is specific to them as well as data such as the appointment history being filtered by dates that have been passed which the customer cannot change the details for or cancel and appointments that are upcoming for which the customer can change the details of e.g., change appointment date/time/service/payment status as well as cancel. In the managers account, the database is filtered such as finding appointments for the current month/day and in the manager report, data is filtered to find the number of hours worked by mechanics in the current month rather than the overall total hours worked. Also, in the managers account, a mechanic and customer ranking are included with data being displayed in ascending order in terms of the total number of hours worked for mechanics and the total number of appointments booked by customers with the top 3 customers and mechanics name being displayed to the manager. Finally, the services/customer/mechanic tables in the managers account allow for searching to be performed based on their names or primary keys such as their

Customer or Service ID in order to find specific data from the large overall set of data.

#### 14. The system must prevent SQL Injection to prevent the database from being destroyed

The website is fully secured to prevent the user from attempting to damage the database through SQL injection as each input for forms in both the manager and customer account is checked, validated and cleaned as I have created a function that is called for each input which converts and removes any special characters that would cause damage to the code to ensure that no data enters the database that could end up destroying the whole system.

### 5.3 User Feedback

After completing the system, I went to the MOT centre to receive feedback from the manager and mechanics and to receive feedback from customers, I created a Google Forms for them to complete and give a rating on different aspects of the system and give any opinions on what they believe could be improved in the future.

#### 1. Customer Feedback - <https://forms.gle/kZ7Ge8DfwgjMjfF9>

**Customer Feedback**

Please Give Your Feedback On The New System And What Improvements Could Be Made To Improve Your Future Experience

\* Required

**Appointment Booking System \***

1	2	3	4	5	6	7		
Poor	<input type="radio"/>	Excellent						

**User Interface \***

1	2	3	4	5	6	7		
Poor	<input type="radio"/>	Excellent						

**Ease Of Navigation \***

1	2	3	4	5	6	7		
Poor	<input type="radio"/>	Excellent						

**Customer Registration And Login System \***

1	2	3	4	5	6	7		
Poor	<input type="radio"/>	Excellent						

**Customer Account Features \***

1	2	3	4	5	6	7		
Poor	<input type="radio"/>	Excellent						

**Vehicle Registration System \***

1	2	3	4	5	6	7		
Poor	<input type="radio"/>	Excellent						

**Appointment Payment System \***

1	2	3	4	5		
Weak	<input type="radio"/>	Fully Secure				

**Contact FAQ Section \***

1	2	3	4	5	6	7		
Poor	<input type="radio"/>	Excellent						

**Overall System \***

1	2	3	4	5		
Poor	<input type="radio"/>	Excellent				

**Improvements (Optional)**

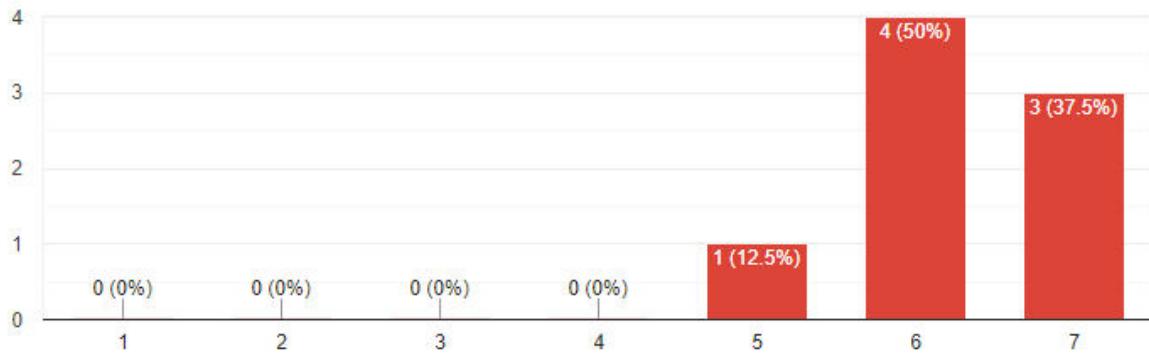
Please Let Us Know What Improvements You Would Like To See That Would Help In Improving Your Future Experience

Your answer

Submit

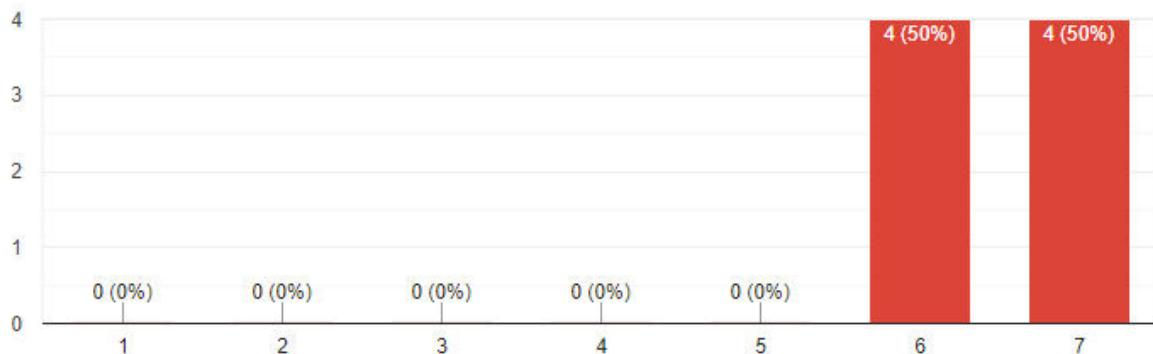
### User Interface

8 responses



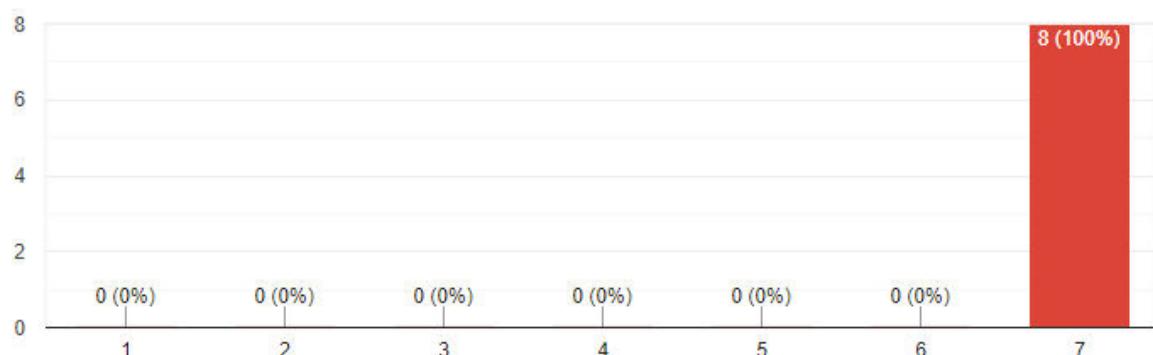
### Ease Of Navigation

8 responses



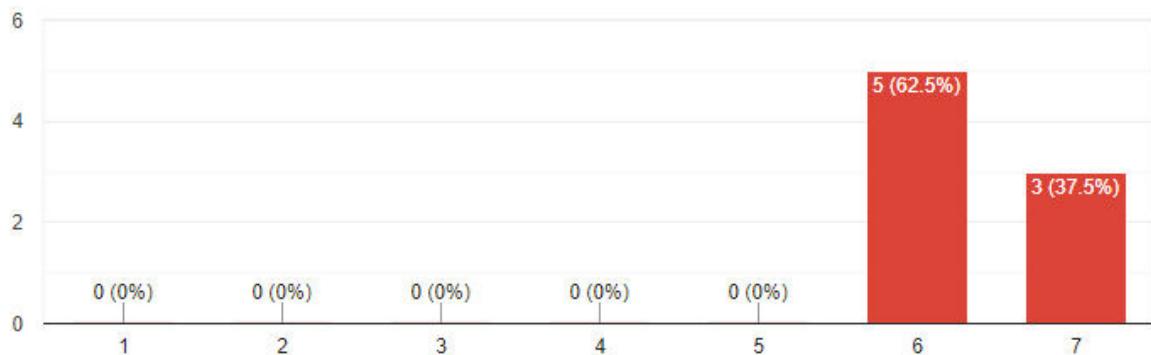
### Customer Registration And Login System

8 responses



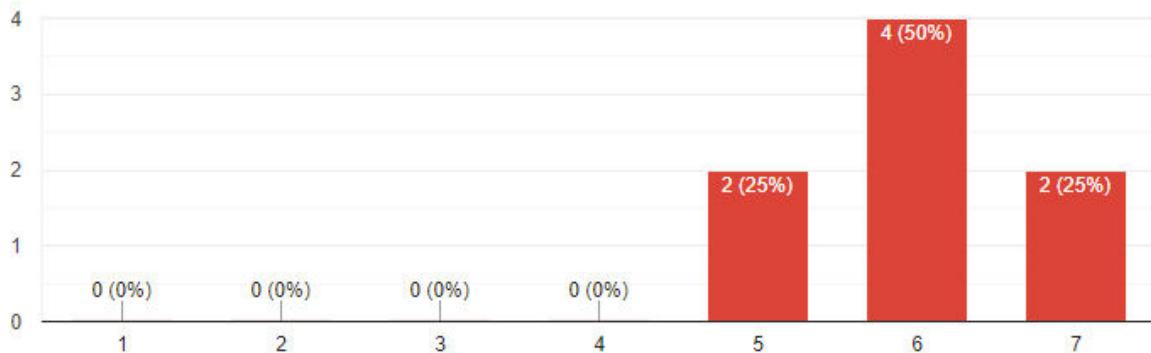
### Customer Account Features

8 responses



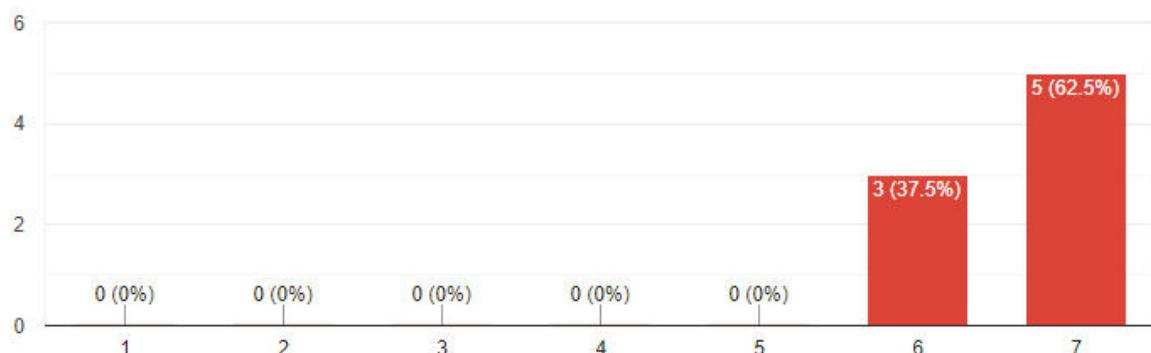
### Vehicle Registration System

8 responses



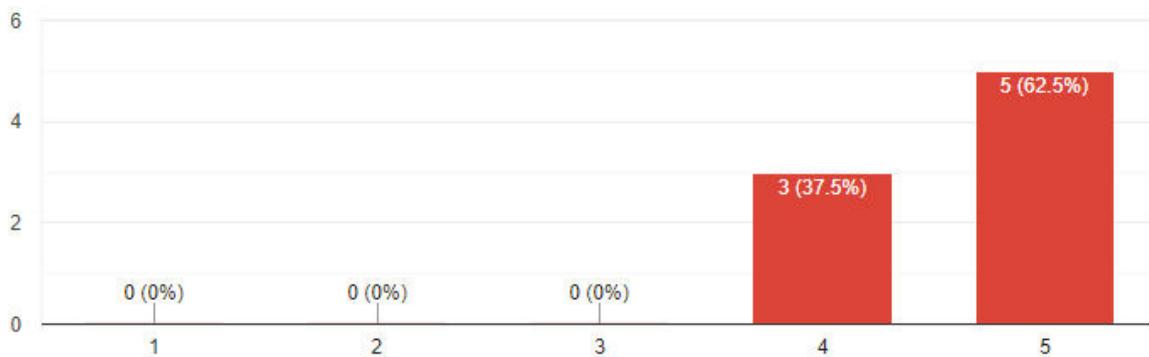
### Appointment Booking System

8 responses



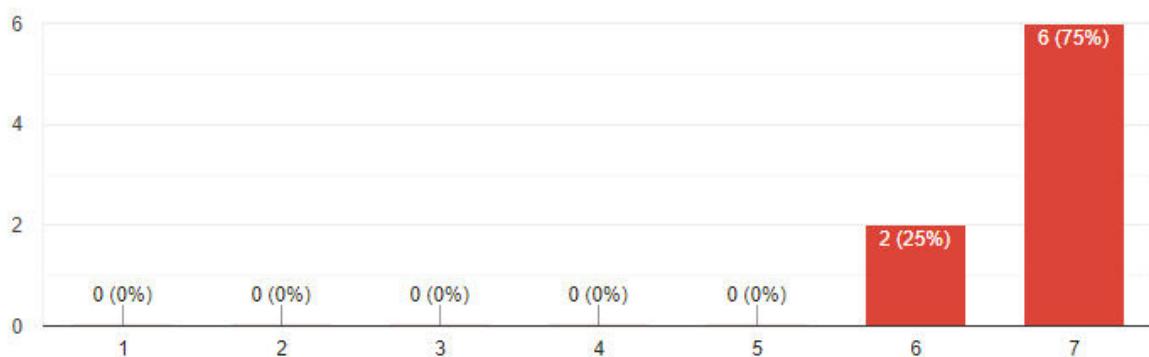
### Appointment Payment System

8 responses



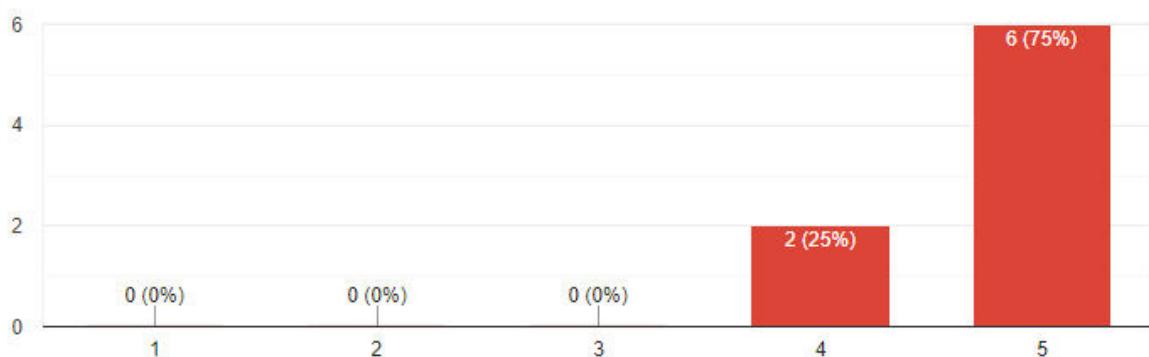
### Contact FAQ Section

8 responses



### Overall System

8 responses



## Improvements (Optional)

5 responses

You should add a feature that would allow for customers to view their invoices even after the appointment has been booked in case they wish to view/download it at a later date

Although the website contains majority of the features required, some more features such as a forgotten password system would be a great addition in perfecting it to the highest quality.

The vehicle registration form should collect more vehicle related data such as the engine size and body type so that mechanics have even better knowledge of our vehicle before the appointment

To improve the user experience, more animations and various colours should be added to make the system more unique than existing ones.

Brilliant system overall with a very professional design but I would like it if I could book multiple services in a single appointment rather than having to book multiple appointments.

## 2. Manager and Staff Feedback –

### Part 1 – Manager :

#### **Does the new system address and overcome the weaknesses that were present in your previous system?**

“Yes, this system looks to have made a major improvement to our current system with appointment booking being automated rather than how customers had many minimal options before as they could only book an appointment by coming during operational times or by calling us over the phone. Also, there are some great additions in your system like the online payment allowing customers to pay before their appointment time and the FAQ page which would help improve our interaction with our customers.”

#### **Do you think this new system is secure?**

“This new system is much more secure than what we previously had by a massive great amount. The way you have included features such as a login system with ReCaptcha, form validations and encryption are high quality and it ensures that the details of our customers are secure by preventing users from accessing the details of other users and I have strong confidence that our customers would feel more satisfied and willing to book appointments with us with this new system than what we previously had hence this would have a significant impact in increasing our customer base”

**Do you think this new system is successful in replicating the existing features of your current booking system?**

“From the looks of it, it seems that this new system is spot on with replicating those features such as preventing a customer from booking multiple future appointments, not allowing customers to book in the same time slot and collecting the essential details of the vehicle before the appointment. This new system seems to incorporate the key functionalities of our existing system with the addition of more features and has taken our overall system to a completely new level which would make us more competitive against other vehicle garages in this local area.”

**How do you think the manager account will help you in managing the MOT centre in a better way?**

“The inclusion of features such as automatically calculating our revenue, the hours worked by the mechanic and displaying the appointment details would make our functionality better as a team going forward as we can make better preparations for upcoming appointments, keep track of our earnings and the dynamic manager report is quite a game changer for the business as we are able to identify the most common services hence I can make future plans for the type of mechanics I need to employ, the process of services to attract other types of services and where we can improve. Also, features such as month-on-month comparisons are also essential as it helps me to identify patterns in sales such as which month we perform better/worse in. The mechanics performance in the report is also vital as it displays to me which mechanics are important for my business and which aren’t which makes decision making much easier as I have greater understanding and evidence based on these records which I previously didn’t possess due to the absence of such a complex and high class system.”

**What is your overall opinion on this new system?**

“It truly is brilliant and highly professional. This system includes all we were looking for and much more as it helps solve the majority of our issues and I feel that this would have a significant impact on increasing the productivity and efficiency within our business. From the design to the login, signup, changing accounts details, vehicle registration system, appointment booking/changing/cancellation system and the contact page as well as the manager account features, it is an outstanding result in such a short duration. Also, the timing of this system couldn’t be any better as we were already severely suffering from the damage caused by the pandemic and the lack of an automated system increased our issues further as business was in decline as people simply weren’t booking appointments as many couldn’t come in person to schedule an appointment. Therefore, this system was desperately needed at current time as it would allow for customers to make

online booking and payment so they would only have to come at the time of the appointment so hopefully this new system would make it easier for our business to recover from the losses already incurred.”

**If I were to have more time, what improvements and additions would you like to see in this system?**

“This system seems to have addressed all our existing weaknesses but if you were to have more time, some features such as a forgotten password system as it is relatively common in most websites and a few customers have mentioned that they would like it if they were to be able to view and download their booking invoice for all their appointments even after they return to their account after the completion of the booking as they may require it for a later date or for personal record. Also, an additional feature worth considering to add would be for the managers account to have a feature where I can search for the appointments booked by a customer based on their name and the month of the appointment in case customers call regarding their appointment as it would make it much easier for me to see the details of their appointment by asking for their name and the month which they had booked their appointment in. Other than this, I can’t really find many improvements and additions that could be made as it seems to perform just how we had envisioned it to do so.”

## **Part 2 – Mechanics :**

**How will this new system assist you in improving your performance?**

“To begin with, our preparation for any upcoming appointments will be significantly better as we have greater details of the customer and their vehicle hence we are able to plan beforehand. Also, the automatic and random allocation of mechanic helps in eliminating any bias or controversy that may occur as there is no human influence in it. Also, I feel as if this system would make our operation much more reliable and efficient as we are able in comparison to our previous system which was much slower, error prone and weak. Finally, the addition of the total hours worked column which is automatically incremented as appointments are booked would actively serve as an incentive for us mechanics to work harder and improve our performance which would only be better for business.”

**What benefits do you think customers would receive with this new and improved system?**

“This new system would be of great benefit for our customers as they are no longer reliant to attend in-person within the operational times or have to wait in a queue when calling over the phone to book appointments as this new system empowers and eases the experience for our customers as they can book at any time of the day and can book for a date long into the future which

previously wasn't possible. Also, additional features such as displaying the MOT renewal date would be of significant benefit to business as customers would be aware if the expiry date is upcoming and can therefore book an appointment accordingly as MOT is the most common booked service."

## 5.4 Evaluation Of User Feedback

Majority of the responses from the feedback are extremely positive. The customers seemed to have really liked the overall system, especially the registration/login and appointment booking system which scored extremely high. There weren't any ratings for the overall system below 4 which is also a major positive as this suggests that this new system has been of great use and it successfully meets the purpose it was created for as 75% of customers declared the overall system as excellent. Also, in the improvements section, there weren't any major issues that customers wanted addressing but were rather minor additions such as the ability to view the invoice of each appointment even after the appointment has been booked as well as a system that allows the customer to reset their password if they have forgotten their password. This is something to consider when making any future improvements to the system. The manager was very impressed and pleased with the outcome as he mentioned that the system was a game changer in management and performance as it would help improve their business by giving greater control and better experience for customers. Also, the manager had mentioned that the new system would allow for better decision making with the creation of a manager report which helps to identify trends in data and greater future planning which previously there was a major deficiency of due to the lack of organisation and the absence of an automated system. Finally, the mechanics were also pleased with the outcome as the preparation for appointments would be improved with this system which would help in growing their customer base if the quality and performance levels are able to increase with this new system.

## 5.5 Future Improvements

Although the system has overall achieved all the objectives I had initially set out in the analysis, there are some improvements that could be made for a better experience for customers such as generating an updated invoice each time the customer makes any changes to their appointment as well as automatically sending a copy of the invoice to the email of the customer. Also, a great addition to the system would be frequent updates via email or SMS about any upcoming appointments booked by the user which reduced the likelihood of the customer forgetting about their appointment and eliminates the requirement for the customer to frequently log in to their account to retrieve the details for the appointment date and time. The addition of other payment features beside card payment would also be a major development to consider in the future such as integrating PayPal, Apple Pay or Google Pay as this has become much

more common as the preferred payment method. Based on the feedback received from customers and the managers, the system could be more beneficial if it were to be enhanced with a 'forgotten password feature' which is incorporated in most business related websites on the internet and prevents the chance of the customer losing all their records if they were to forget their password. Finally, the manager had made a suggestion where I add a feature in their account which would give them the ability to search for the details of the appointment booked by a particular customer based on their name and the month they had booked their appointment in which is a feature worth considering to add in the future.

## 5.6 Additional Changes

Based on the evaluation, I realised that an appointment search system as suggested by the manager would be extremely beneficial as they would be able to find the details of an appointment based on the customers name and the month in which they had booked their appointment. Therefore, I went back and created this search system which is only accessible to the manager and is both simple and easy to use for them.

Design:

### APPOINTMENT SEARCH : 2 RESULTS

FIRST NAME

LAST NAME

MONTH OF APPOINTMENT

SEARCH

APPOINTMENT ID	CUSTOMER ID	SERVICE TYPE	REGISTRATION NUMBER	DATE	TIME	PAID	PRICE
#A08	#C06	MOT (CARS)	OE08 KSO	01-02-2021	10:00-11:00	NO	£ 50
#A012	#C06	DIAGNOSTIC CHECK	OE08 KSO	15-02-2021	13:00-13:40	YES	£ 40

#### SQL Query for Appointment Search

```
GetAppointmentDetails = "SELECT appointmentdetails.AppointmentID,
appointmentdetails.CustomerID, appointmentdetails.AppointmentDate,
appointmentdetails.Paid, appointmentdetails.TotalPrice,
appointmentdetails.AppointmentStartTime, appointmentdetails.AppointmentEndTime,
appointmentdetails.RegistrationNumber, services.ServiceName FROM appointmentdetails
INNER JOIN customerdetails ON appointmentdetails.CustomerID = customerdetails.CustomerID
INNER JOIN services ON appointmentdetails.ServiceID = services.ServiceID WHERE
customerdetails.FirstName = '$CustomersFirstName' AND customerdetails.LastName =
'$CustomersLastName' AND MONTH(appointmentdetails.AppointmentDate) =
'$AppointmentMonth' ORDER BY appointmentdetails.AppointmentID ASC"
```

Code:

Screenshot (Before Search):

## APPOINTMENT SEARCH

FIRST NAME

LAST NAME

MONTH OF APPOINTMENT

SEARCH

Screenshot (After Search):

## APPOINTMENT SEARCH : 3 RESULTS

ALI

HASAN

ALL RECORDS

SEARCH

APPOINTMENT ID	CUSTOMER ID	SERVICE TYPE	REGISTRATION NUMBER	DATE	TIME	PAID	PRICE
#A07	#C06	BATTERY REPLACEMENT	OE08 KSO	27-01-2021	10:00-10:30	NO	£85.00
#A08	#C06	DIAGNOSTIC CHECK	OE08 KSO	01-02-2021	14:00-14:40	YES	£60.00
#A012	#C06	FULL SERVICE + MOT	OE08 KSO	15-02-2021	13:00-16:20	YES	£225.00

Code:

```
203 <?php
204 $CustomersFirstName = $CustomersLastName = "";
205 if(isset($_POST["SearchForAppointments"])){
206     $CustomersFirstName = Fix_Input($_POST["CustomersFirstName"]);
207     $CustomersLastName = Fix_Input($_POST["CustomersLastName"]);
208     $AppointmentMonth = Fix_Input($_POST["AppointmentMonth"]);
209     if($AppointmentMonth <> ""){
210         $AppointmentDetails = mysqli_query($Conn, "SELECT appointmentdetails.AppointmentID, appointmentdetails.CustomerID, appointmentdetails.AppointmentDate,
211                                         appointmentdetails.Paid, appointmentdetails.TotalPrice, appointmentdetails.AppointmentStartTime, appointmentdetails.AppointmentEndTime,
212                                         appointmentdetails.RegistrationNumber, services.ServiceName FROM appointmentdetails INNER JOIN customerdetails ON appointmentdetails.CustomerID =
213                                         customerdetails.CustomerID INNER JOIN services ON appointmentdetails.ServiceID = services.ServiceID WHERE customerdetails.FirstName =
214                                         '$CustomersFirstName' AND customerdetails.LastName = '$CustomersLastName' AND MONTH(appointmentdetails.AppointmentDate) = '$AppointmentMonth' ORDER BY
215                                         appointmentdetails.AppointmentID ASC");
216     } else {
217         $AppointmentDetails = mysqli_query($Conn, "SELECT appointmentdetails.AppointmentID, appointmentdetails.CustomerID, appointmentdetails.AppointmentDate,
218                                         appointmentdetails.Paid, appointmentdetails.TotalPrice, appointmentdetails.AppointmentStartTime, appointmentdetails.AppointmentEndTime,
219                                         appointmentdetails.RegistrationNumber, services.ServiceName FROM appointmentdetails INNER JOIN customerdetails ON appointmentdetails.CustomerID =
220                                         customerdetails.CustomerID INNER JOIN services ON appointmentdetails.ServiceID = services.ServiceID WHERE customerdetails.FirstName =
221                                         '$CustomersFirstName' AND customerdetails.LastName = '$CustomersLastName' ORDER BY appointmentdetails.AppointmentID ASC");
222     }
223 }
224 if(!isset($_POST["SearchForAppointments"])){ ?><h3 class="HideShow" onClick="DisplaySearchBox()">APPOINTMENT SEARCH</h3><?php } else { ?>
225 <h3 class="HideShow" id="SearchResults" onClick="DisplaySearchBox2()">APPOINTMENT SEARCH : <?php echo mysqli_num_rows($AppointmentDetails) ?> RESULTS</h3><?php } ?>
226 <div class="SearchForAppointment" id="Search">
227     <form method="post" action="AdminAccount#SearchResults">
228         <div class="SearchBar">
229             <input type="text" placeholder="FIRST NAME" name="CustomersFirstName" required value="<?php echo $CustomersFirstName ?>" spellcheck="false">
230             <input type="text" placeholder="LAST NAME" name="CustomersLastName" required value="<?php echo $CustomersLastName ?>" spellcheck="false">
231             <select name="AppointmentMonth" required>
232                 <option value="0">MONTH OF APPOINTMENT</option>
233                 <option value="">>All Records</option>
234                 <option value="1">January</option>
235                 <option value="2">February</option>
236                 <option value="3">March</option>
237                 <option value="4">April</option>
238                 <option value="5">May</option>
239                 <option value="6">June</option>
240                 <option value="7">July</option>
241                 <option value="8">August</option>
242                 <option value="9">September</option>
243                 <option value="10">October</option>
244                 <option value="11">November</option>
245                 <option value="12">December</option>
246             </select>
247             <button name="SearchForAppointments">SEARCH</button>
248         </div>
249     </form>
250 <?php
251 if(mysqli_num_rows($AppointmentDetails) > 0 ){ ?>
252     <table>
253         <tr>
254             <th>APPOINTMENT ID</th>
255             <th>CUSTOMER ID</th>
256             <th>SERVICE TYPE</th>
257             <th>REGISTRATION NUMBER</th>
258             <th>DATE</th>
259             <th>TIME</th>
260             <th>PAID</th>
261             <th>PRICE</th>
262         </tr>
263     <?php
264     while($Row = mysqli_fetch_assoc($AppointmentDetails)){ ?>
265         <tr>
266             <td><?php echo "#A" . $Row["AppointmentID"] ?></td>
267             <td><?php echo "#C" . $Row["CustomerID"] ?></td>
268             <td><?php echo $Row["ServiceName"] ?></td>
269             <td><?php echo $Row["RegistrationNumber"] ?></td>
270             <td><?php echo date("d-m-Y", strtotime($Row["AppointmentDate"])) ?></td>
271             <td><?php echo $Row["AppointmentStartTime"] . "-" . $Row["AppointmentEndTime"] ?></td>
272             <?php if($Row["Paid"] == 0){ ?><td><?php echo "NO" ?></td>
273             <?php } else { ?><td><?php echo "YES" ?></td><?php } ?>
274             <td><?php echo "£" . $Row["TotalPrice"] ?></td>
275         </tr>
```

```

276     <?php } ?>
277     </table>
278 </?php } ?>
279 </div>
280 </div>
281 </body>
282
283     function DisplaySearchBox() {
284         var DisplayBox = document.getElementById("Search");
285         if (DisplayBox.style.display === "none") {
286             DisplayBox.style.display = "block";
287         } else {
288             DisplayBox.style.display = "none";
289         }
290     }
291     function DisplaySearchBox2() {
292         var DisplayBox = document.getElementById("Search");
293         if (DisplayBox.style.display === "none") {
294             DisplayBox.style.display = "block";
295         } else {
296             DisplayBox.style.display = "none";
297         }
298     }
299 </script>
300 <style>
301 .SearchForAppointment{
302     width: 1170px;
303     margin: 0 0 auto 6.75px;
304     border-radius: 7.5px;
305     position: relative;
306     display: none;
307     height: auto;
308 }
309 .HideShow{
310     position: relative;
311     width: 1170px;
312     margin: 875px 0 0.75px 6.75px;
313     text-align: center;
314     padding: 12.5px 0;
315     font-size: 20px;
316     letter-spacing: 3.5px;
317     color: white;
318     border-radius: 7.5px;
319     background: #001F3F;
320     cursor: pointer;
321 }
322 .HideShow:hover{
323     background: #0006A15;
324     transition: ease-in-out 0.375s;
325 }
326 .SearchForAppointment .SearchBar{
327     width: 1120px;
328     padding: 10px 25px;
329     background: #001F3F;
330     border-radius: 7.5px;
331     margin: 1.25px 0;
332 }
333 .SearchForAppointment .SearchBar input{
334     text-transform: uppercase;
335     padding: 5.535px 50px;
336     border-radius: 15px;
337     margin: 2.25px 5px;
338     text-align: center;
339     letter-spacing: 1.875px;
340     font-weight: 700;
341     transform: scaleY(1.025);
342     border: none;
343     outline: none;
344 }
345 .SearchForAppointment .SearchBar button{
346     cursor: pointer;
347     padding: 5px 24.5px;
348     border-radius: 15px;
349     margin: 2.25px 5px;
350     text-align: center;
351     letter-spacing: 2.5px;
352     font-weight: 700;
353     transform: scaleY(1.025);
354     border: none;
355     outline: none;
356     color: white;
357     border: 1.675px solid #75141D;
358     background: #DC3545;
359 }
360 .SearchForAppointment .SearchBar button:hover{
361     background: #75141D;
362 }
363 .SearchForAppointment .SearchBar input::placeholder{
364     color: black;
365 }
366 .SearchForAppointment .SearchBar select{
367     text-transform: uppercase;
368     padding: 5.75px 75px;
369     border-radius: 15px;
370     margin: 2.5px 5px;
371     text-align: center;
372     letter-spacing: 1.875px;
373     font-weight: 700;
374     transform: scaleY(1.025);
375     border: none;
376     outline: none;
377     cursor: pointer;
378     -webkit-appearance:none;
379     background-image: url("Down-Arrow.png");
380     background-repeat: no-repeat;
381     background-size: 15px 15px;
382     background-position: 330px center;
383 }
384 .SearchForAppointment .SearchBar select option{
385     font-weight: 600;
386 }
387 .SearchForAppointment table{
388     border-collapse: separate;
389     width: 100.075%;
390     text-transform: uppercase;
391     border-spacing: 0;
392 }
393
394
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411 .SearchForAppointment th{
412     padding: 8.75px;
413     text-align: center;
414     font-size: 13.5px;
415     letter-spacing: 2.5px;
416     font-weight: 700;
417 }
418 .SearchForAppointment td:first-child{
419     border-left: 2.5px solid #001F3F;
420 }
421 .SearchForAppointment td:last-child{
422     border-right: 2.5px solid #001F3F;
423 }
424 .SearchForAppointment th:first-child{
425     border-top-left-radius: 7.5px;
426 }
427 .SearchForAppointment th:last-child{
428     border-top-right-radius: 7.5px;
429 }
430 .SearchForAppointment table tr:last-child td:first-child{
431     border-bottom-left-radius: 7.5px;
432 }
433 .SearchForAppointment table tr:last-child td:last-child{
434     border-bottom-right-radius: 7.5px;
435 }
436 .SearchForAppointment td{
437     letter-spacing: 1.5px;
438     text-align: center;
439     font-size: 13px;
440     padding: 9.25px 3.5px;
441     font-weight: 600;
442     border-bottom: 2px solid #001F3F;
443 }
444 .SearchForAppointment tr:nth-child(even){
445     background: white;
446     color: #001F3F;
447 }
448 .SearchForAppointment tr:nth-child(odd){
449     background: #001F3F;
450     color: white;
451     border-bottom: 2px solid #001F3F !important;
452 }
453 </style>
454 </html>

```

## Testing:

Appointment Search - <https://youtu.be/G39ReIHG4LY>

Test No.	Description	Test Data	Test Type	Expected Result	Actual Result	Time Stamp
1.01	Ensure That The Appointment Search System Is Can Be Hidden/Viewed When Clicked	-	Normal Test	Appointment Search System Is Displayed And Hidden When Clicked	Expected	0:55
1.02	Ensure That The Manager Doesn't Leave Any Of The Fields Empty	-	Erroneous Test	Error Message: "Please Fill In This Field"	Error Messages Displayed To The User	1:06
1.03	Ensure That No Records Are Returned If A Customer With The Inputted Name Hasn't Booked Any Appointments	First Name: "Rao Ali" Last Name: "Hasan"	Normal Test	0 Results Returned From The Search	Expected	1:33
1.04	Ensure That The Total Number Of Results From Each Search Is Displayed	First Name: "Ali" Last Name: "Hasan" Month: "January"	Normal Test	1 Result Is Displayed To The Manager For Appointments Booked By Customers With That Name In January	Expected	2:17

1.05	Ensure That The Results Can Be Filtered By Month	First Name: "Ali" Last Name: "Hasan" Month: "February"	Normal Test	2 Results Are Displayed To The Manager For Appointments Booked By Customers With That Name In February	Expected	3:07
1.06	Ensure That The Complete Appointment History Of A Customer Can Be Viewed In The Search System	First Name: "Ali" Last Name: "Hasan" Month: "All Records"	Normal Test	3 Results Are Displayed To The Manager For Appointments Booked By Customers With That Name For All Months	Expected	4:08
1.07	Ensure That the Result Displayed To The Manager Match What Is In The Database	-	Normal Test	The Details In The Database Are The Same As The Details Outputted From The Search	Expected	4:37

## Managers Response:

### Does this appointment search system meet your needs?

"Yes, this appointment search system is spot on. From this, I am able to input the name of the customer and the month of the appointment and all the records are retrieved from the database and displayed. The way you designed it as well looks very professional with the ability to hide and view the search bar. Also, the fact that the number of results returned is displayed in the header is also very useful. Finally, another useful feature for the option to look at the complete history of appointments booked by a customer by inputting their name is also helpful. This search facility meets all of my needs and has taken the control I have over the complete system to another level"