

## A project Report on "CarServe"- A Car Service and Maintenance Android App

**Objective:** The Car Service App is a mobile application designed to provide convenient and easy access to car maintenance and modification services. The app will allow users to keep track of their vehicle's maintenance history, choose from different service packages, book appointments, and access roadside maintenance services.

**Features:** The app will have the following features:

- **Register and Log-in:** The new user will register in the app by providing their username, email, phone number and by setting up password. There is a login option for the users so that users those have already registered can use the app directly by proving few login details. Also, there is a login option for service providers as well so that they can add more service packages in the future.
- **Car Service Packages:** Users can see different service packages like including oil change, tire rotation, brake service, and many more. Clicking on any package will direct the user to a new screen to know more details as well as book an appointment for the same.
- **Car Modification Packages:** Users can browse different car modification packages, including performance upgrades, body kit installation, Car wrap, Lift Kits, and many more. Clicking on any package will direct the user to a new screen to know more details as well as book an appointment for the same.
- **Car Washing:** The app will include a feature where users can book a car washing service. There will different kind of washing services such as basic, deluxe, premium ,the user can see the details for each of them
- **Booking Appointment:** There will be an option to book appointment for service or modification where the user can select the appointment date and time. The user will get a notification after the appointment is booked and can book their appointment as per their need. There is an option to canceling the pre-existing appointment if needed. The user and service provide both can see the appointments booked.
- **Service Record:** Users will have an option to add their service record by adding service number, Service date, Service cost etc. Users can keep a track of their previous vehicle's service and maintenance history.

- **Roadside Maintenance:** Users can request emergency roadside assistance for issues such as flat tires, battery jump-starts, and lockouts. The user can directly call the service provider in case of any emergency.
- **Contact us:** If the user wants to contact the modifying/service company for queries they can click on contact button, write the query and click on send option. This will send the issues faced by users to the service providers.
- **Reach us /locate us:** The user can find the location of the company “CarServe” so that they can reach to them easily on their appointment day. The app uses Google map to show the location of the service provider.
- **Adding packages:** The service provider can add more car modification, service and washing package if needed by providing the details for package and uploading photo of the package.

**Technology Stack:** The app will be developed using Android Studio, Java, XML and Firebase server.

**Challenges:** The main challenges in developing this app were integrating the different features all together, making different activity for each car service and modification package that was a quite lengthy task. Also using firebase server to fetch as well as store all the information was also a challenge.

**Conclusion:** "CarServe" is a comprehensive car service and maintenance app that provides users with a personalized platform to see various service, modifications and car washing packages and keep track of their vehicle's history, and book appointments. This app will serve as a valuable tool for car owners looking to keep their vehicle in top condition and ensure their safety on the road.

**Future enhancements** may include using API to get the car details, so that user can select its car company and user can get subsequent options to select Car name and model based on the company provided at the time of booking appointment. Also, there will be improvement in the overall theme and design of the app in future to make it look more impressive.

## **How to Use "CarServe" - A Car Service and Maintenance Android App:**

### **Install:**

Install the app on your device

### **Register and Login:**

- Launch the app on your device
- For new users: Create an account by clicking on new user button providing their username, email, phone number and by setting up password, this will direct you to the user's home screen.
- For existing users: Existing users can Click on User login, provide login details i.e username and password .If there password is correct they will be directed to the user's home screen
- For service provider: Service provider will login by clicking on Service provider login button, they will be directed to service provider login button.

### **Car packages:**

- Select the type of package from the bottom menu, there are three option for that Service, modification and washing. Click on the car package you want to select. This will take you to the new appointment screen
- Select the data and time of the appointment, you can select the pickup service also. After selecting the details click on book appointment. You will receive a appointment confirmation on the screen.

### **Viewing and cancelling appointment:**

- To view the previous booked appointment, click on the 3 dots on the top right corner you will see a menu popped up. Click on View bookings button, a new screen will be opened that will show the list of booking available.
- You can cancel your prior booking by pressing cancel button. The status of that booking will be changed to "cancelled". you will also get a notification on the screen that booking has been cancelled

### **View and Add Service record:**

- To view the service record, click on "View Service record" button on the top left menu of the screen. There are two options at the top "View records" and "Add record", To view record click on view record button
- To add service record, click on add record button, enter details such as package name, service price and select the service date. Click on "Add" button at the bottom. The service record will be added.

**Contact and Location:**

- To Contact regarding some query, click on “contact us” from the top right pop up menu. Click on “Contact us button”, write your query and email address, click on add button. This will send your query message to the service provider.
- You can see the location of the service provider that will help you to take your car on the appointment day by clicking on “Reach us” option from the same top right pop-up menu. This will divert the screen to google maps.
- You can even call the road side maintenance by clicking on the “phone” button on the top dashboard
- To logo-out-just click on logout button from the top-right pop-up menu.

**For service provider:**

- The service provider can login by clicking on “Service provider login” login button
- You will see three option at the top menu “view package”, “view bookings” and “Settings” button at the top menu for viewing package, bookings and logging out.
- To add more package, select the type of the service from the drop menu. Click on “+” button, enter details of the package including uploading package photo, click on add. The package will be added.

**Conclusion:** "CarServe" is a comprehensive car service and maintenance app that provides users with a personalized platform to see various service, modifications and car washing packages and keep track of their vehicle's history, and book appointments. This app will serve as a valuable tool for car owners looking to keep their vehicle in top condition and ensure their safety on the road. Use this guide to get started with "CarServe" and make your car service with easy. If you have any questions or feedback, please contact us at [abc@carserve.com](mailto:abc@carserve.com)

## Car Service application screens/Activities







