**Car Maintenance Reminder App**

**Car Maintenance Reminder App** is a mobile application designed to help car owners **track, manage, and receive reminders** for their own vehicle’s maintenance schedules. This helps **personal assistant for car care,** ensuring that users never miss important tasks such as oil changes, tire rotations, service checks, and etc.

1. User

* Authentication: Register/login for upload their own car info -> Login & Sign Up (Email, Phone Number).
* Add/manage one or more vehicles.
* Set reminders for services (oil change, tire check, battery, insurance).
* View upcoming and past maintenance history.
* Get email or notifications for due tasks.
* Forgot Password
* View past maintenance logs.
* Update profile (name, email, contact).
* Saved vehicles & service history.

1. Admin

* Manage service categories (oil, tires, brakes, insurance, …..).
* View registered users and vehicles.

Vehicle Management:

* Add vehicle details (make, model, year, license plate,…..).
* Can use Multiple vehicles under one account.
* Upload vehicle photo

Maintenance Reminder:

* Schedule service tasks with due date.
* reminders (push notification by using firebase cloud Messaging (FCM)).

Pre common services:

Service check (oil change, Tire replacement, brake check, battery check,…….)

1. Database

* Firebase (Authentication, Firestore, Cloud Messaging for notifications) Or MongoDB

1. Navigation (Fragments & Drawer)

* Home Fragment → Dashboard with upcoming reminders.
* Vehicle Fragment → Manage cars.
* Reminder Fragment → View, add, edit reminders.
* History Fragment → Service history.
* Account Fragment → Profile & settings.
* Drawer Menu → Home, Vehicles, Reminders, History, About Us, Sign Out.

1. Optional

* Theme toggle (Dark / Light mode).
* Language Toggle (English/Khmer)

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| Use Case Diagram |