



# The Vehikl Oil Change Challenge

## Objective

Create a small Laravel app that helps determine whether a car is due for an oil change based on odometer and date inputs.

A car needs an oil change if **either** of the following is true:

- It's been **more than 5000 km** since the last oil change, **or**
  - It's been **more than 6 months** since the last oil change.
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## Requirements

### 1. Setup

- Use **Laravel 12** with a **SQLite** database for storing data
- Use **Blade templates** for the views.
- Make an **initial git commit** immediately after setting up Laravel (before starting your work).

### 2. Form Page

- Create a form with the following fields:
  - Current Odometer
  - Date of Previous Oil Change
  - Odometer at Previous Oil Change
- Validate the input:
  - All fields are required.

- The current odometer must be greater or equal to the odometer at previous oil change
- Date of previous oil change must be valid and in the past

### 3. Result Page

- When the form is submitted:
  - Save the form input to the database.
  - Direct the user to a results page unique to that form submission
  - Display a message indicating whether the car is due for an oil change or not.
  - Display the original values that were entered in the form.
  - The message and original input should remain visible even if the browser is refreshed (because it's stored in the database and the user is on a result page unique to that submission).

### 4. Navigation

- Include a button or link to go back to the original (blank) form to check another car
- Do **not** implement user accounts, authentication, or any index/list of past checks.
- Do **not** worry about deleting records.

### 5. Frontend

- Use **Blade templates** for the views.
- Keep it simple — no JavaScript or frontend frameworks required.
- A very basic layout and design is fine.

### 6. Suggested Routes

- **GET** / → Show the form

- `POST /check` → Handle submission
  - `GET /result/{id}` → Show the result
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## Submission

- Push your code to a **public GitHub repository**.
- Include a short **README.md** with setup instructions (how to run migrations and start the app).
- Share the repository link with Sara