

## TurboCare Recruitment Test Assignment

Develop a **Mobile** app using **Flutter** to create vehicle profiles and save them into **providers**. Try to implement the design and development best practices you are aware of. Make sure to create reusable widgets / components while doing assignments.

The app will have following screens:

1. Vehicle number input
2. Vehicle class selection(Car / Bike)
3. Vehicle make selection
4. Vehicle model selection
5. Vehicle fuel-type selection
6. Vehicle transmission selection
7. Vehicle list
8. Vehicle profile

User Flow:

Users will land on the vehicle list page, which will be empty for the first time.

Users will first input the vehicle registration number (MH14AB1234). Then the user has to select the vehicle class. The vehicle class can be 2w for two wheeler (bikes and scooters) and 4w (cars). Once this information is collected, a user has to select the make from the list of makes. After selecting the make, a list of models belonging to that make should be prompted. With the combination of make and model. The next screen should ask the user the fuel type (like petrol or diesel). After selecting the fuel type, the user has to select the transmission. Transmission has two options which are "Manual" and "Automatic".

After selecting the transmission, a vehicle profile will be created and saved locally. The profile will be shown in the Vehicle List screen. Once the item in the vehicle list screen is clicked, it will launch a Vehicle Profile screen where the vehicle information will be displayed in detail.

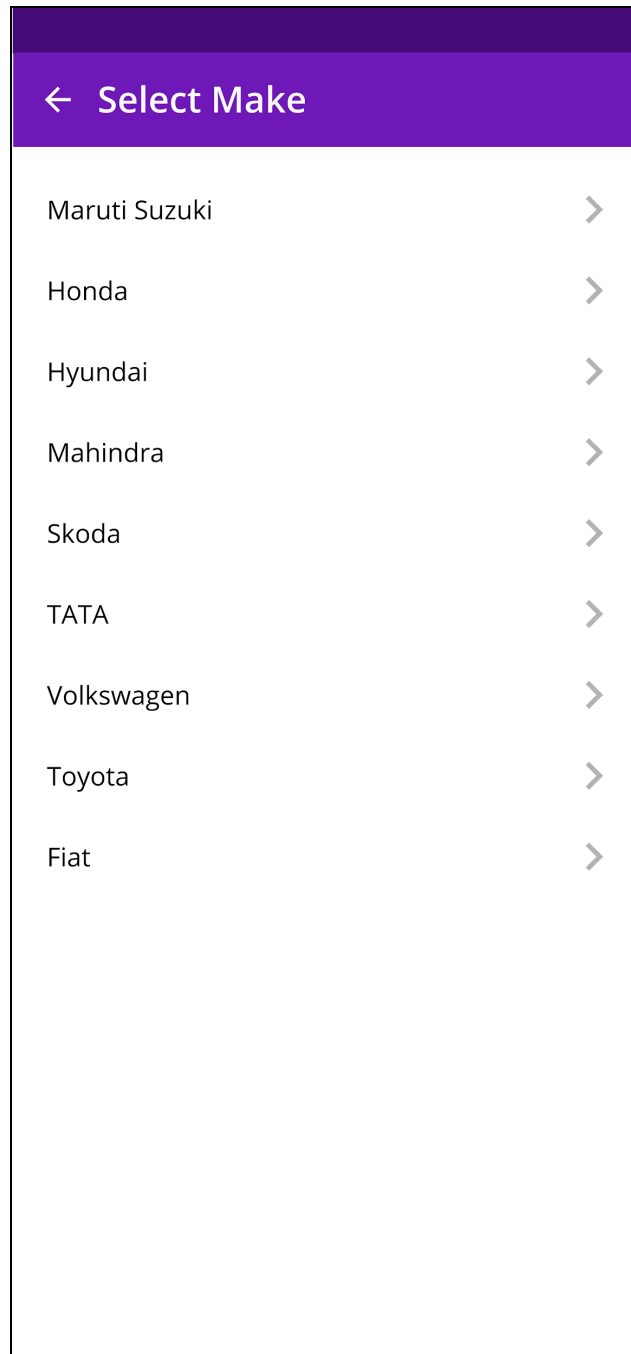
Please see the next page for the mock screens.

The app needs some APIs to get the list of make and models. Navigate to page 9 to see required APIs.

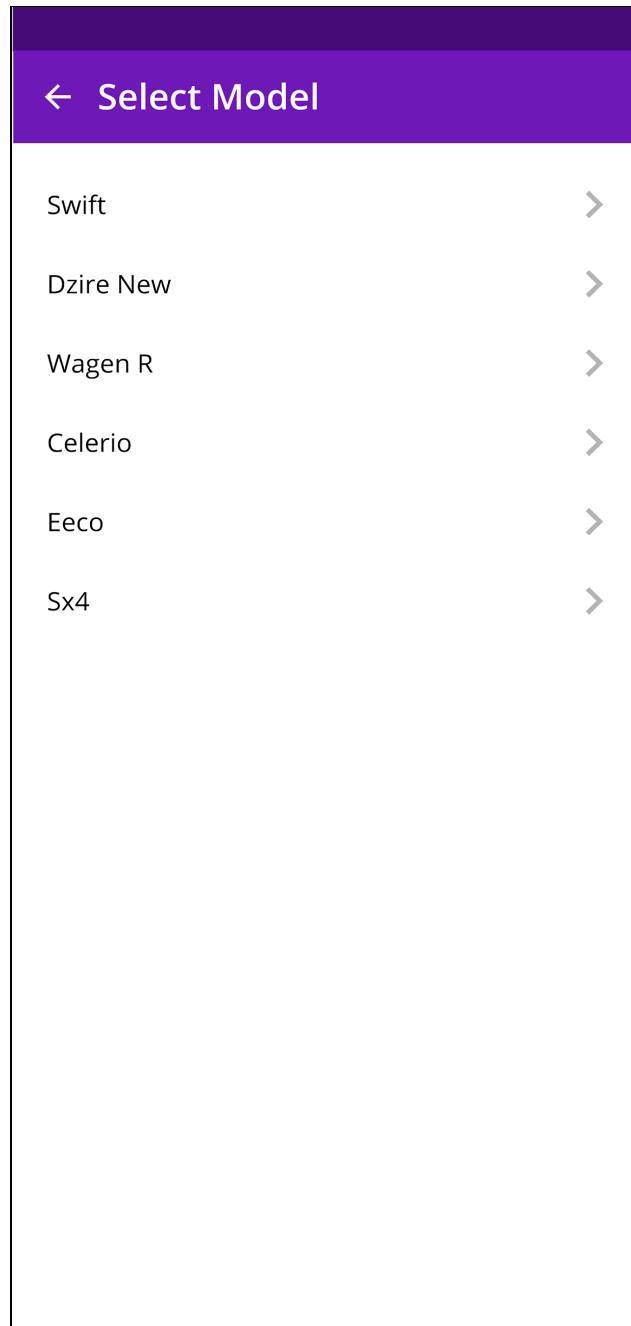
Mock Screens:

The mockup shows a mobile application interface. At the top, there is a dark blue header bar. Below it is a purple navigation bar with a white left-pointing arrow and the text "Create new vehicle profile". The main content area is white. It features a label "VEHICLE NUMBER" in a small, grey font. Below the label is a light grey rounded rectangular input field containing the text "MH12AB1234". At the bottom right of the screen is a large purple circular button with a white right-pointing arrow.

Vehicle Number Input Screen



Vehicle Make Selection Screen



Vehicle Model Selection Screen

← Select Fuel Type

Petrol

>

Diesel

>

CNG

>

Petrol + CNG

>

Electric

>

Hybrid

>

Vehicle Fuel Type Selection Screen



Vehicle Transmission Selection Screen

CIVIC PETROL

MH12PN7781

MAKE

HONDA

MODEL

CIVIC

FUEL TYPE

PETROL

TRANSMISSION

AUTOMATIC

Vehicle Profile Screen

## ← Vehicles

**MH12AB1234**

Maruti Suzuki Dzire



**MH12PN1212**

Honda Hness CB350



**MH12PN3435**

Yamaha MT 15



Vehicle List Screen



APIs.

To get the list of makes for 2w class (2 wheeler vehicle brands)

<https://test.turbocare.app/turbo/care/v1/makes?class=2w>

To get the list of makes for 4w class (4 wheeler vehicle brands)

<https://test.turbocare.app/turbo/care/v1/makes?class=4w>

To get the list of models for two wheeler Honda vehicles

<https://test.turbocare.app/turbo/care/v1/models?class=2w&make=honda>