



Level 2 - Semester 2
ITE 2152– Mobile Application Development

Assignment 02

Submitted By:

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Index: E2041327

Bachelor of Information Technology (External Degree)

Faculty of Information Technology

University of Moratuwa

Drive App Android App Documentation

App overview:

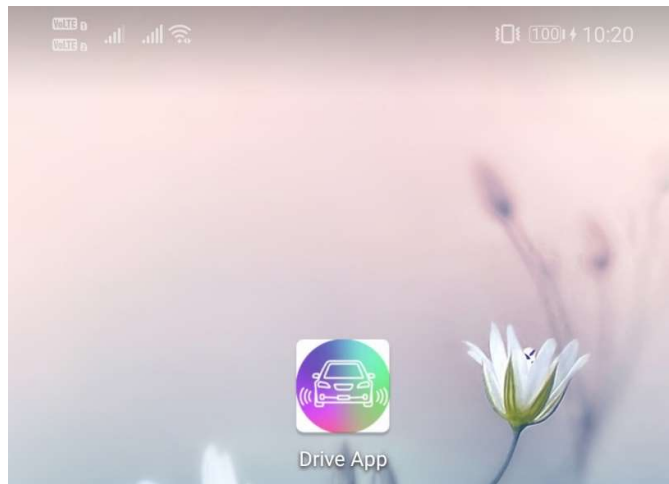
The app is built to help drivers of any level to improve their driving skills and maintain the vehicle. The driver can also save, update, delete, and view their vehicle details. The user can maintain the records of service details, fuel refilling details, and repair details. Owner can add different types of vehicles and any number of vehicles.

Technologies used:

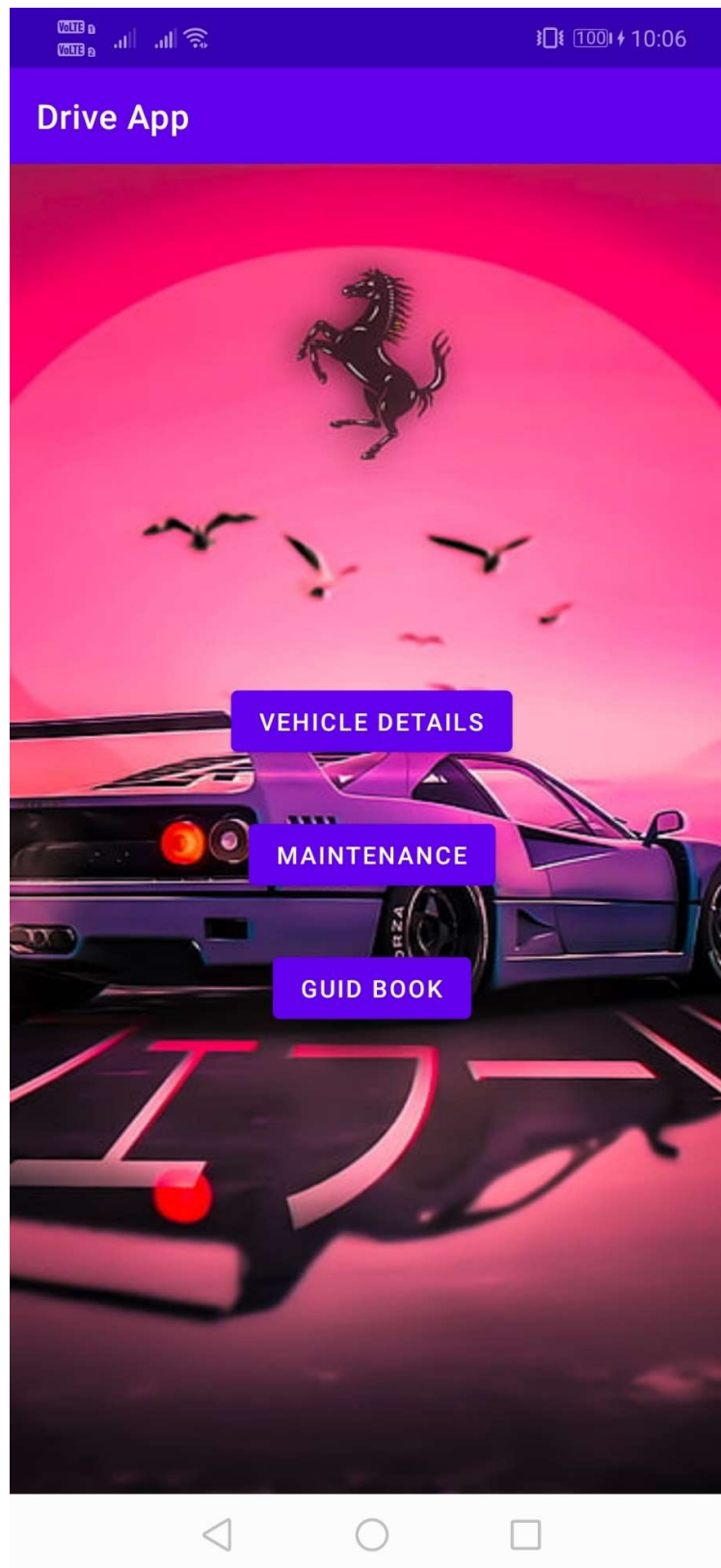
- Programming Language: JAVA
- Local Database to store records: SQLite
- Android Widgets: Spinner, TextView, Buttons, ListViews, etc.
- Applying navigation components to handle screens (fragments).

User Manual

- **Logo:**



- **Start Screen: Click on the buttons to continue.**



Add Vehicle - Enter the vehicle details and press the save details button. After clicking the save details button vehicle user is able to add a vehicle. If user adds a vehicle successfully there will be a toast message displayed Added new vehicle details.

Vehicle Details

Add vehicle

Vehicle Type	Car
Vehicle Number	WP ABC-1234
Registration Date	26-11-2022
Engine number	GK123YG65
Model	Civic
Fuel Type	Petrol 95
Year of manufacture	2021
Engine Capacity	2600cc

SAVE DETAILSVIEW DETAILS

UPDATE DETAILSDELETE DETAILS

Vehicle Details

Add vehicle

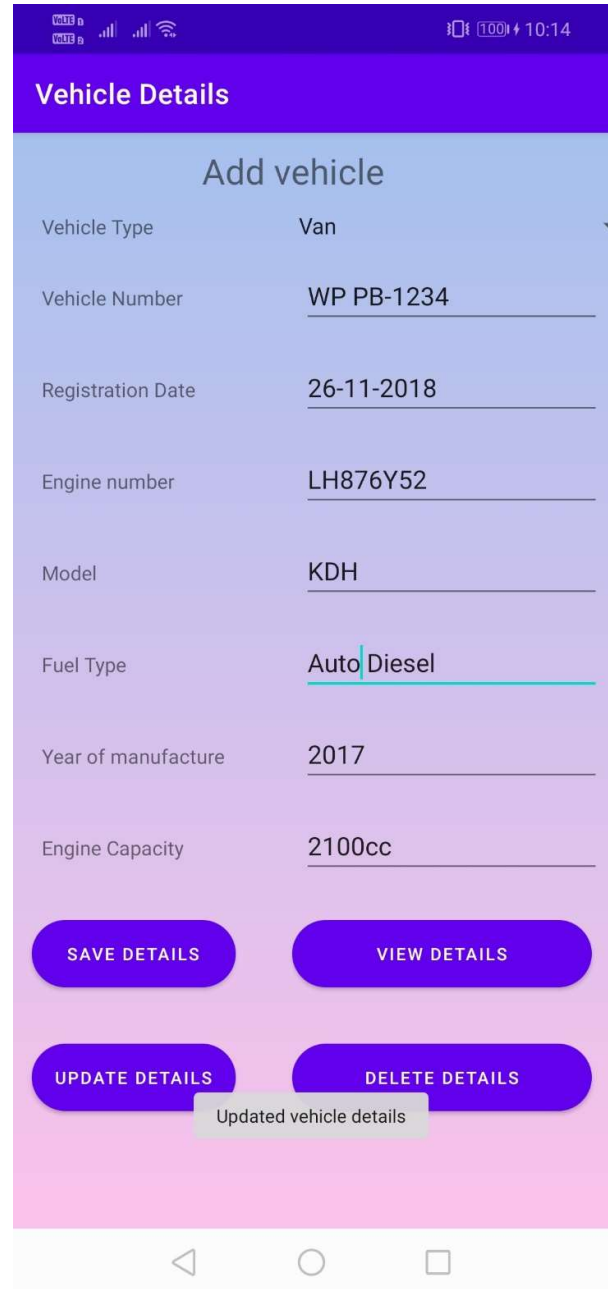
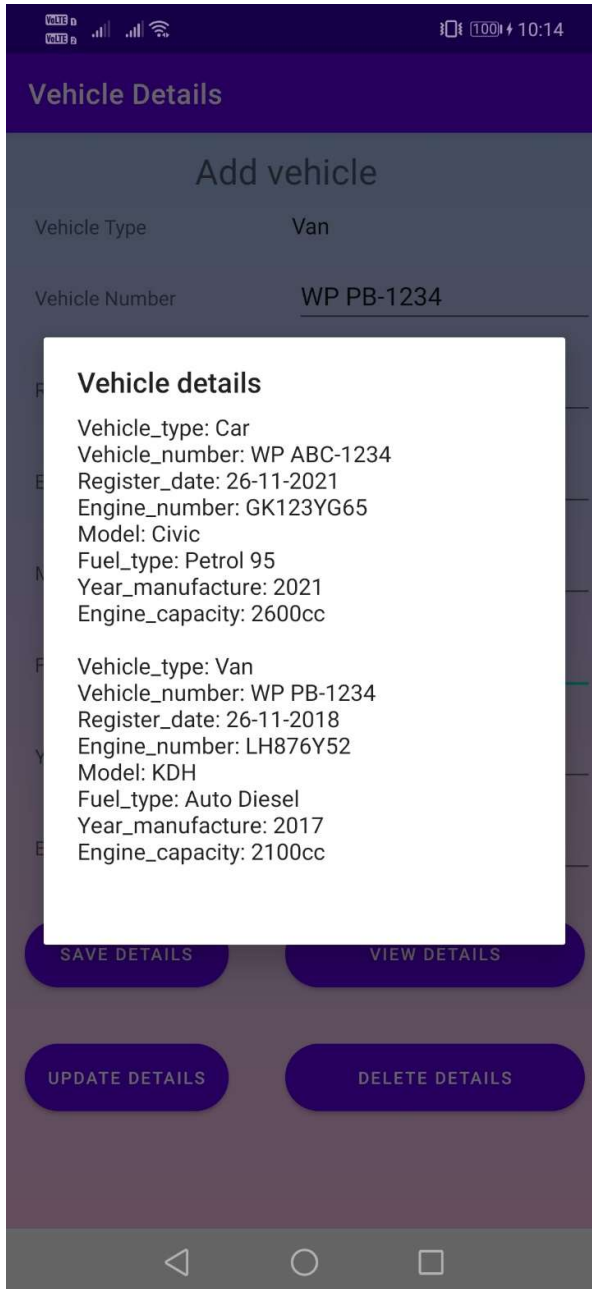
Vehicle Type	Car
Vehicle Number	WP ABC-1234
Registration Date	26-11-2022
Engine number	GK123YG65
Model	Civic
Fuel Type	Petrol 95
Year of manufacture	2021
Engine Capacity	2600cc

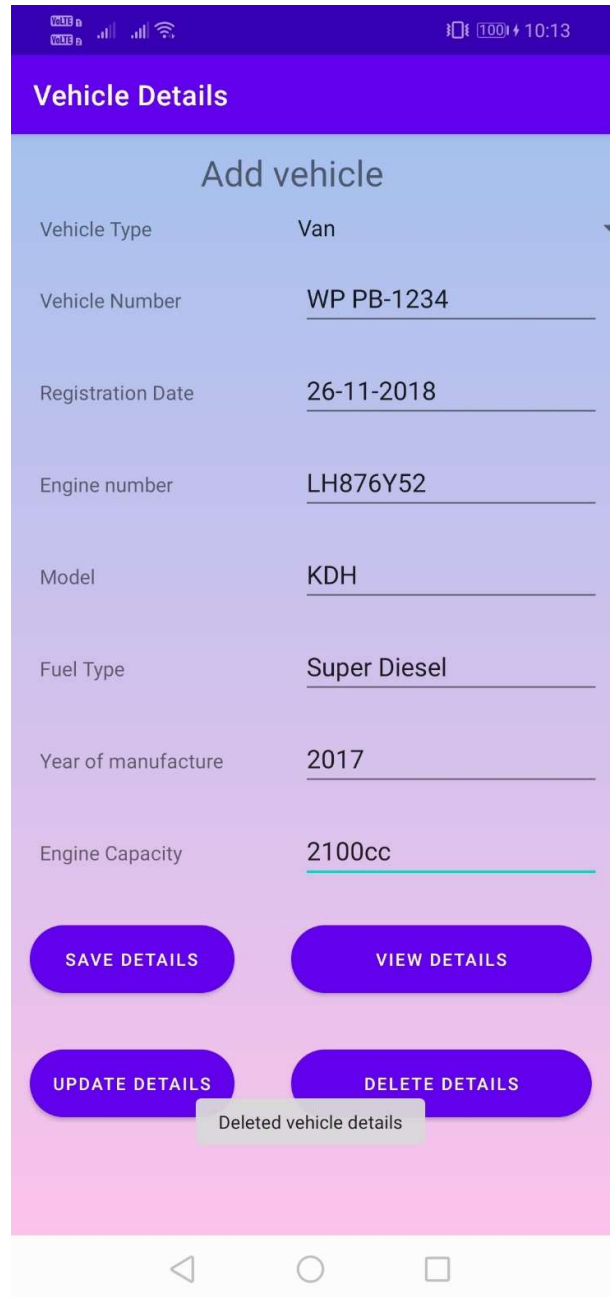
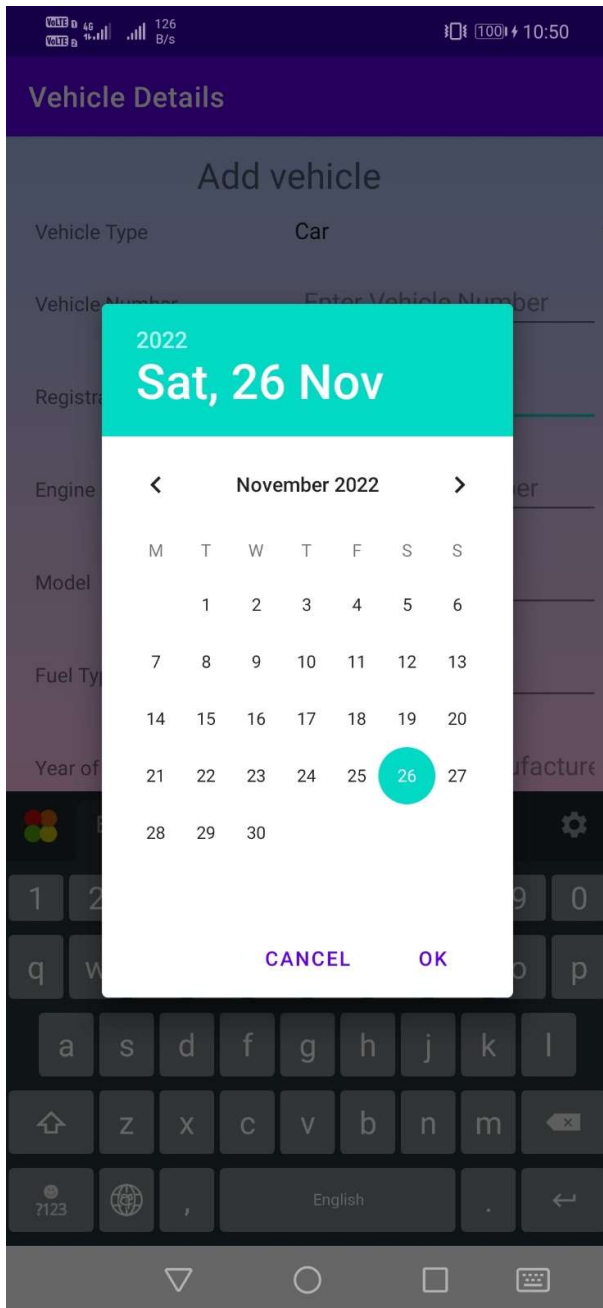
SAVE DETAILSVIEW DETAILS

UPDATE DETAILSDELETE DETAILS

Added new vehicle details

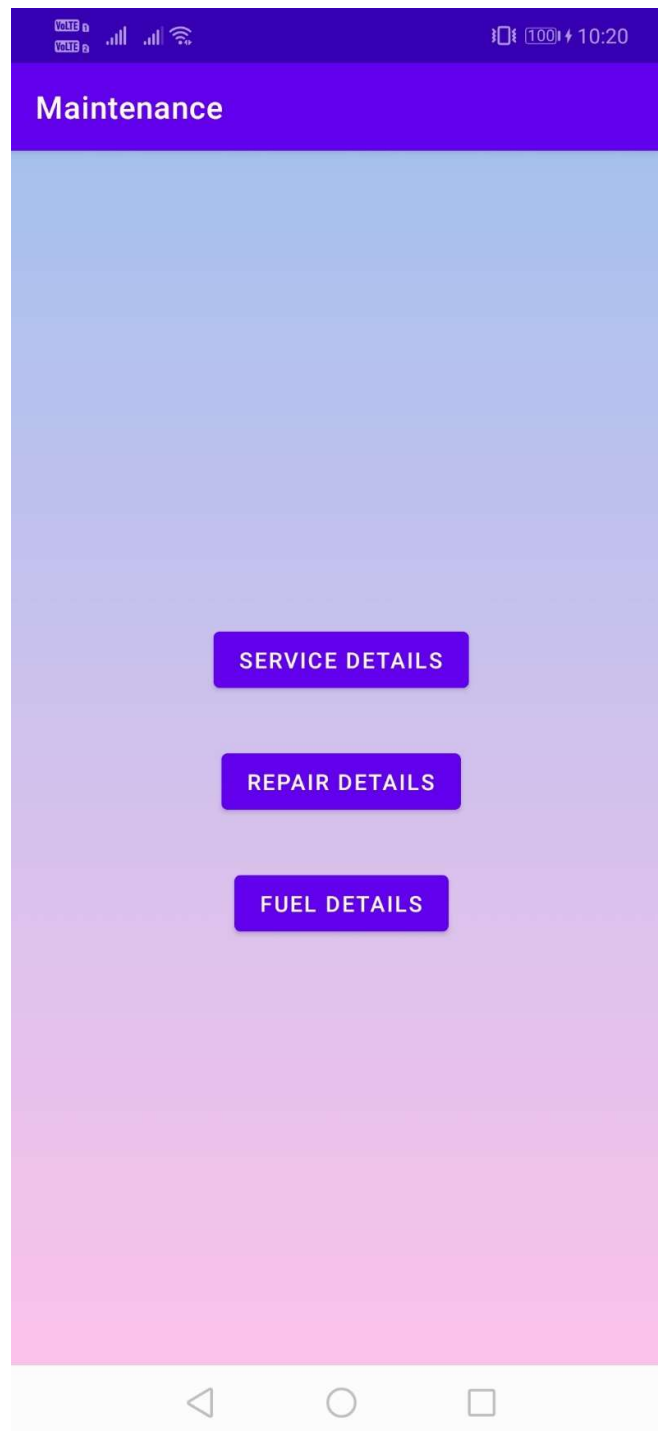
View, Update, and Delete vehicle details: After adding the vehicle details, user can view added details. More over user can update and delete the vehicle details. After deleting and updating it will show toast messages that the updating and deleting is success or not.





Maintain a Vehicle

When user clicks on maintenance in home a vehicle user can add repair, fuel, service details.



Add Service details: user can add service details by clicking save details button.

The screenshot displays a mobile application interface for managing service details. At the top, a status bar shows 'VOLTE' and signal strength indicators. The app's title bar is purple with the word 'Service' in white. Below this, the section 'Service Details' is highlighted in a light blue header. The form contains five input fields, each with a label on the left and a value on the right, separated by a horizontal line:

- Vehicle Number: WP ABC-1234
- Last Service Date: 10-02-2022
- Description: Full Service was done
- Items Replaced: Oil Filter
- Cost: Rs: 12000/=

Below the form fields are four purple buttons with white text, arranged in two rows:

- SAVE DETAILS
- VIEW DETAILS
- UPDATE DETAILS
- DELETE DETAILS

At the bottom of the screen, a light green message box contains the text 'Added new service details'. The very bottom of the image shows the standard Android navigation bar with back, home, and recent apps icons.

View service details: User can view the service details by clicking the view details button

The screenshot shows a mobile application interface with a dark purple header labeled "Service". Below the header is a section titled "Service Details" containing several input fields: "Vehicle Number" with the value "WP ABC-1234", "Last Service Date" with the placeholder "Select Date", and "Description" with the placeholder "Enter Description". A modal dialog box titled "Service details" is overlaid on the screen, displaying the following information: "vnumber: WP DEF-5678", "lastdate: 18-2-2022", "description: Normal Service was done", "itemreplaced: Oil Filter", and "cost: Rs: 8000/=". At the bottom of the modal are two buttons: "UPDATE DETAILS" and "DELETE DETAILS". The background of the application is a dark purple gradient, and the bottom of the screen shows the Android navigation bar.

Service

Service Details

Vehicle Number WP ABC-1234

Last Service Date Select Date

Description Enter Description

Itemreplaced: Oil Filter

Cost: Rs: 8000/=

Service details

vnumber: WP DEF-5678
lastdate: 18-2-2022
description: Normal Service was done
itemreplaced: Oil Filter
cost: Rs: 8000/=

UPDATE DETAILS DELETE DETAILS

Add repair details: user can add repair details by clicking save details button

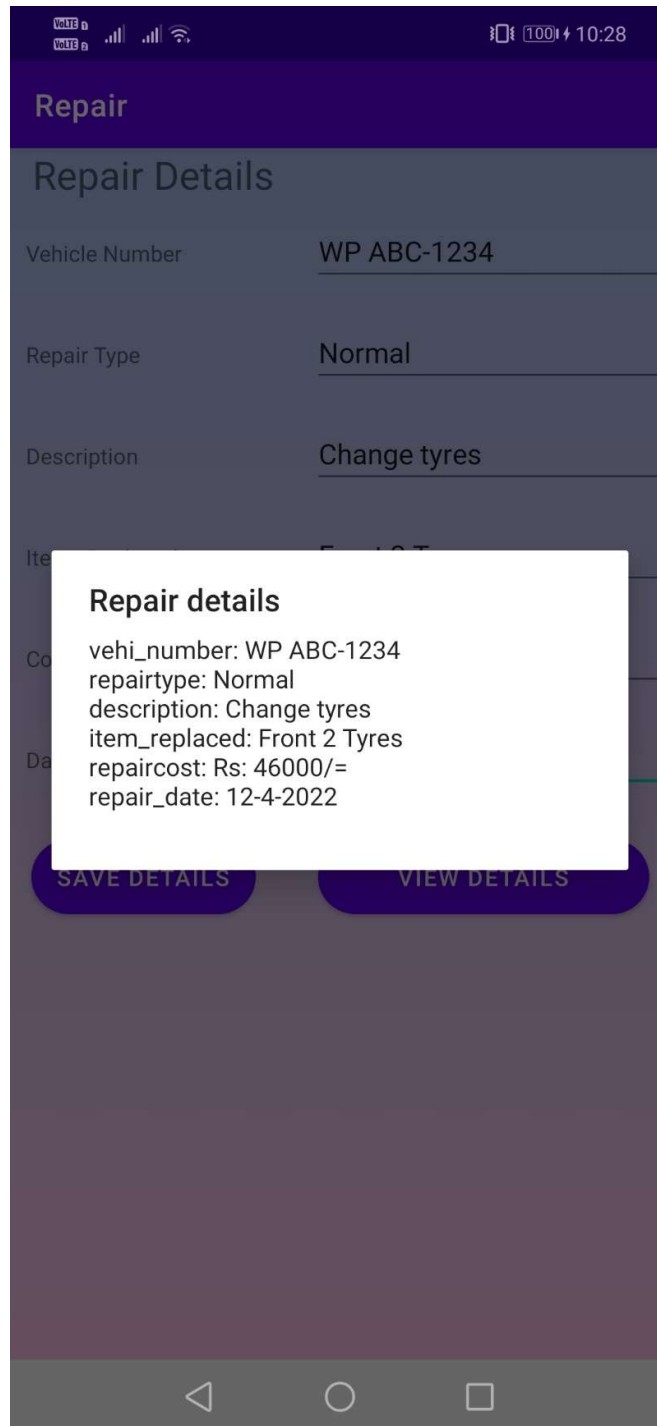
The screenshot shows a mobile application interface for adding repair details. The top status bar displays 'VoLTE', signal strength, Wi-Fi, and battery level at 100% with the time 10:28. The app's title bar is red and contains the word 'Repair'. Below this, the section is titled 'Repair Details'. The form consists of six rows, each with a label on the left and a text input field on the right. The inputs are: 'WP ABC-1234' for Vehicle Number, 'Normal' for Repair Type, 'Change tyres' for Description, 'Front 2 Tyres' for Items Replaced, 'Rs: 46000/=' for Cost, and '12-4-2022' for Date. At the bottom of the form are two red buttons: 'SAVE DETAILS' and 'VIEW DETAILS'. A light green toast message 'Added new repair details' is visible at the bottom center of the screen. The bottom navigation bar shows standard Android icons: back, home, and recent apps.

Vehicle Number	WP ABC-1234
Repair Type	Normal
Description	Change tyres
Items Replaced	Front 2 Tyres
Cost	Rs: 46000/=
Date	12-4-2022

SAVE DETAILS **VIEW DETAILS**

Added new repair details

View Repair details: User can view the repair details by clicking the view details button



Add fuel details: user can add fuel details by clicking save details button

The screenshot shows a mobile application interface for adding fuel and mileage details. The app has a purple header bar with the title 'Fuel and Mileage'. Below the header, the main title 'Add Fuel and Mileage' is displayed. The form consists of five rows, each with a label on the left and an input field on the right. The labels are 'Date', 'Fuel type', 'Reason', 'Liters', and 'Total Cost'. The input fields contain the values '12-7-2022', 'Petrol 95', 'For trip', '50 liters', and 'Rs: 18500/=' respectively. Below the form, there are two purple buttons with white text: 'SAVE DETAILS' and 'VIEW DETAILS'. At the bottom of the screen, a light green toast message box displays the text 'Added new fuel details'. The status bar at the top shows the time as 10:29 and the battery level as 100%.

Date	12-7-2022
Fuel type	Petrol 95
Reason	For trip
Liters	50 liters
Total Cost	Rs: 18500/=

SAVE DETAILS **VIEW DETAILS**

Added new fuel details

View fuel details: User can view the fuel details by clicking the view details button

The screenshot shows a mobile application interface for managing fuel and mileage. At the top, there's a status bar with network, battery, and time (10:29) indicators. Below it is a dark purple header with the text "Fuel and Mileage". The main content area has a title "Add Fuel and Mileage" and a form with several input fields. The fields are labeled "Date", "Fuel type", "Reason", "Liters", and "To". The values entered are "12-7-2022", "Petrol 95", "For trip", "50 liters", and a partially visible "To" field. A modal dialog box is overlaid on the form, titled "Fuel details", which displays the following information: "fueldate: 12-7-2022", "fueltype: Petrol 95", "reason: For trip", "liters: 50 liters", and "totalcost: Rs: 18500/=". The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps buttons.

Fuel and Mileage

Add Fuel and Mileage

Date: 12-7-2022

Fuel type: Petrol 95

Reason: For trip

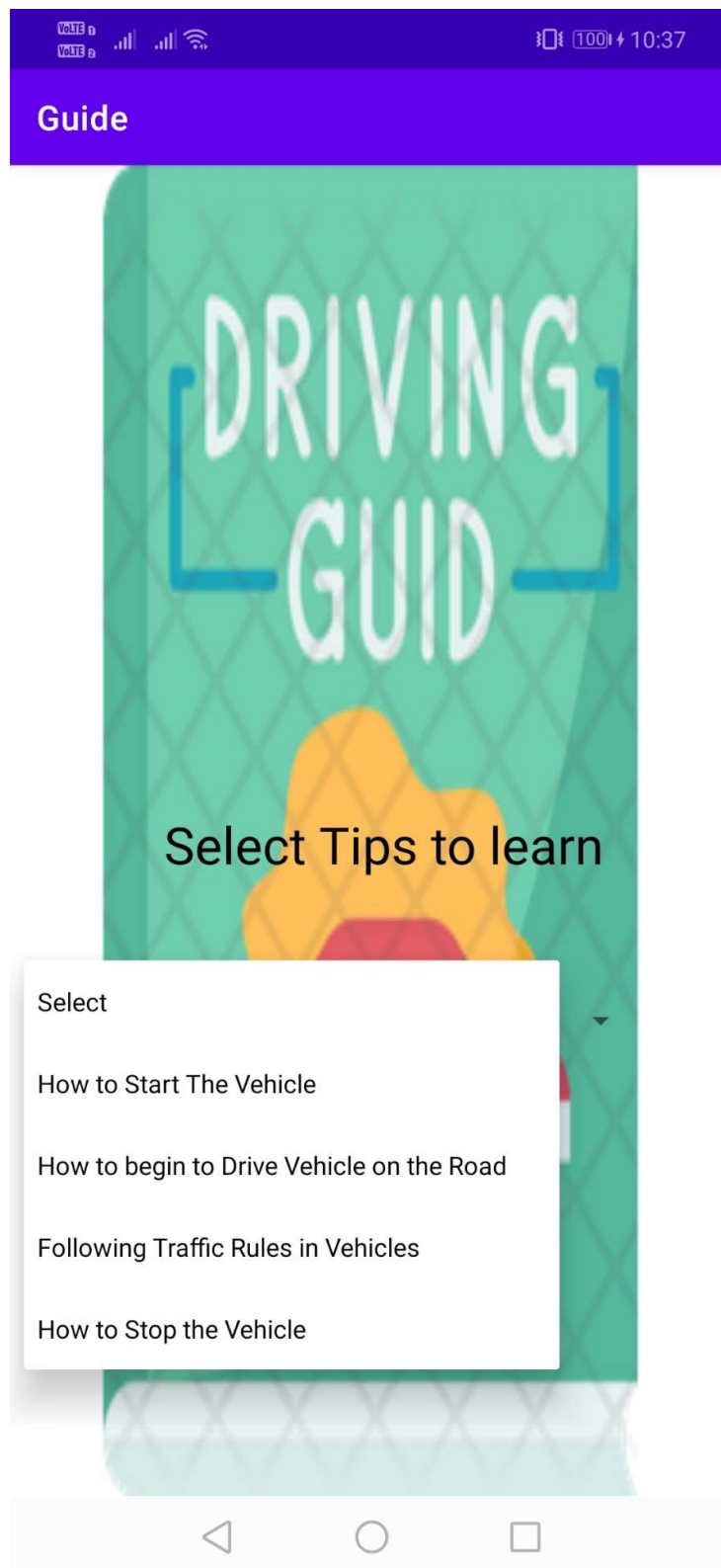
Liters: 50 liters

To:

Fuel details

fueldate: 12-7-2022
fueltype: Petrol 95
reason: For trip
liters: 50 liters
totalcost: Rs: 18500/=

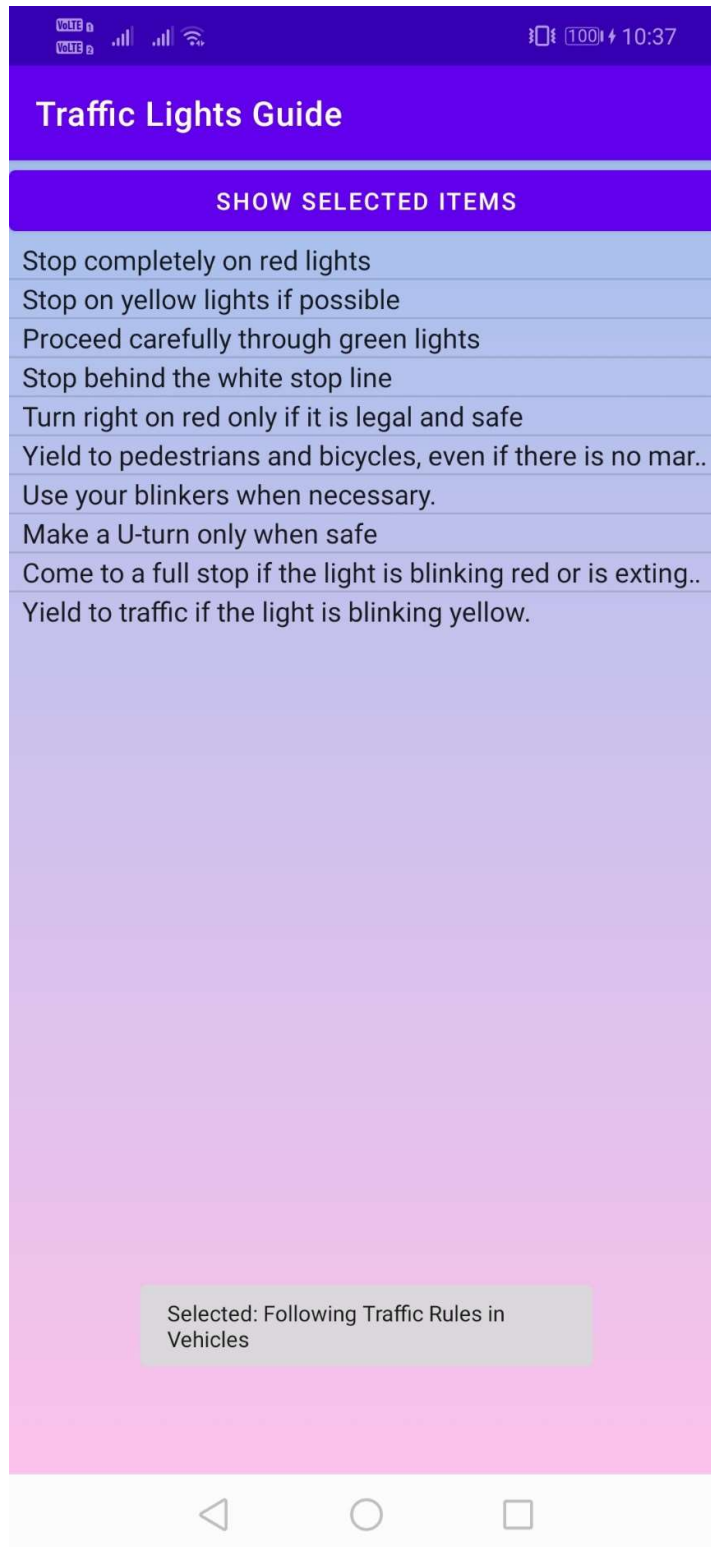
Guide Book: Once user select the guide book option in home it will navigate to this screen. In here we can choose what user need study, then it will show in another screen as a list.



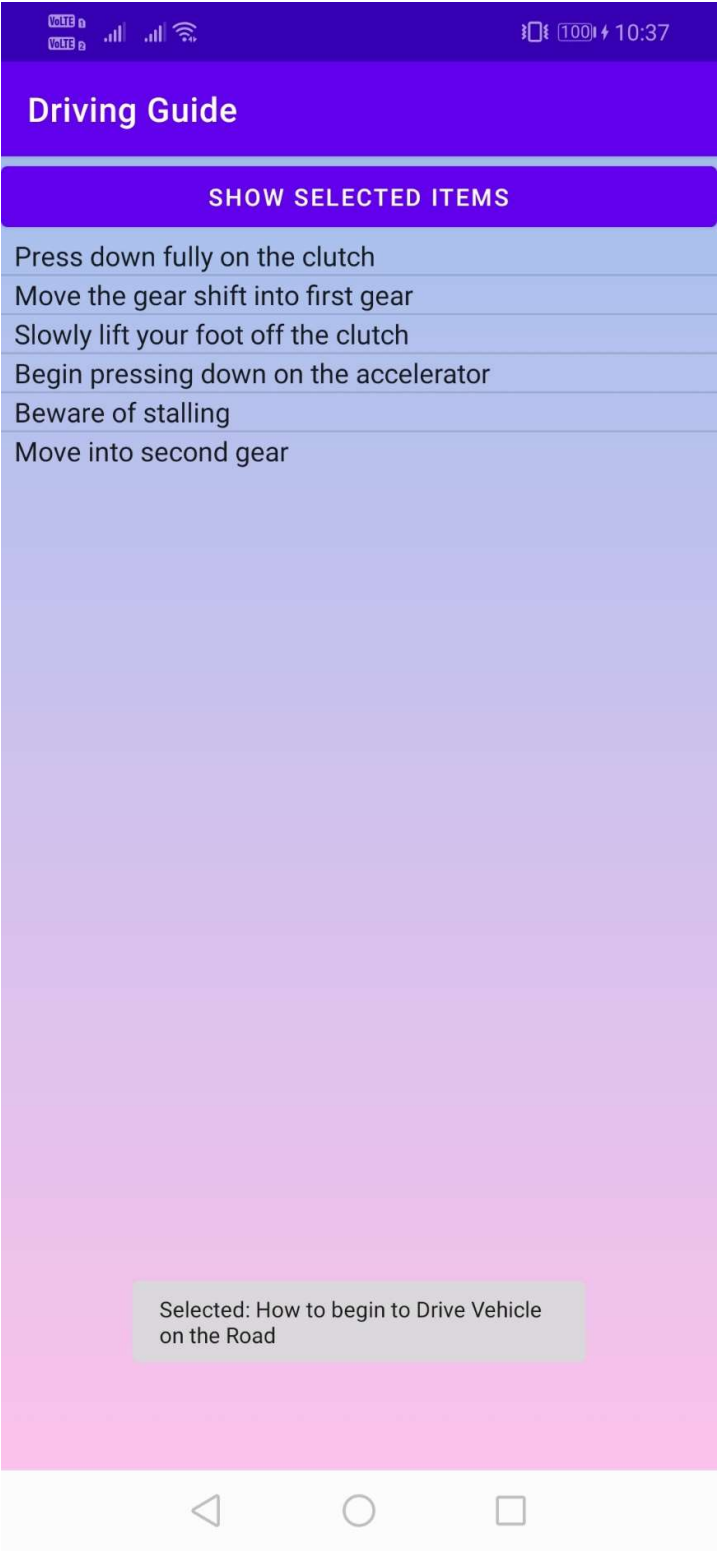
How to start the vehicle:



Following traffic rules:



How to begin driving:



How to stop vehicle:

