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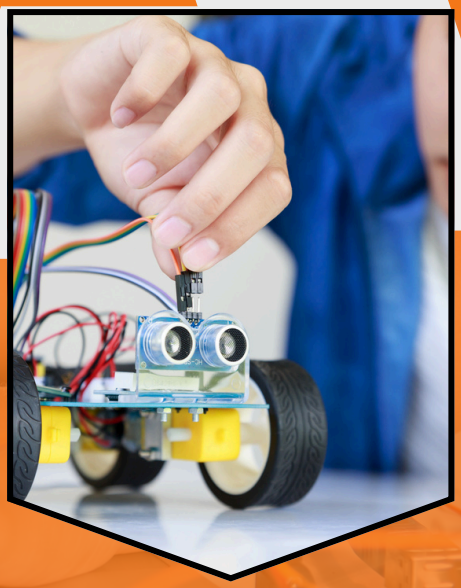

EKLAVYA WORKSHOP

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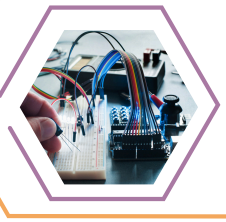
FLOW CHART OF EKLAVYA WORKSHOP

Chassis Assembly

Basics of circuit and Introduction to Development Platform



Logic Development for structuring of application

Application Development for Android/ iOS.

Integration of Application with Hardware.

Implementation

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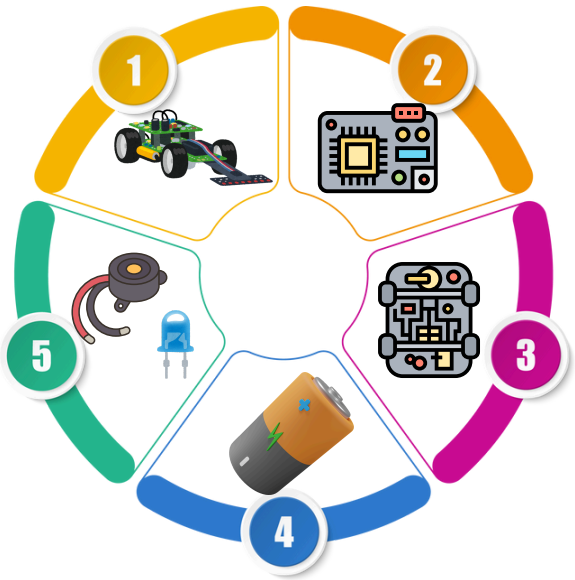
ANDROID/IOS APP CONTROLLED GESTURE ROBOT



Our takeaway Eklavya Bot kit is designed to educate your champ with complete knowledge of technology. Not just to get into chakravyu of knowledge but also to come out of it victoriously with wisdom of Innovation

Eklavya Trainer kit includes:

1. Robot Chasis.
2. Node MCU.
3. Motor Driver
4. Re-chargable battries
5. Buzzer.

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DETAILED BREAKDOWN OF WORKSHOP

1 hours
Basic introduction of chassis parts and assembly

1 hours
Understanding and building the circuit.

2 hours
Getting comfortable with code and playing with functions.

2 hours
Logic Development for structuring of application

2 hours
App Development

2 hours
Integrating App with Eklavya Bot.

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DETAILED BREAKDOWN OF WORKSHOP

1.1 Explaining chassis parts
1.2 Assembling the parts

2.1 Understanding & Building the circuit

3.1 Taking a look at the code
3.2 Understanding wifi connection
3.3 Understanding the logic of the code
3.4 Taking a look at the functions

4.1 Exploring the features of application
4.2 Designing simple UI
4.3 Making backend logic for it
4.4 Building the app for the bot

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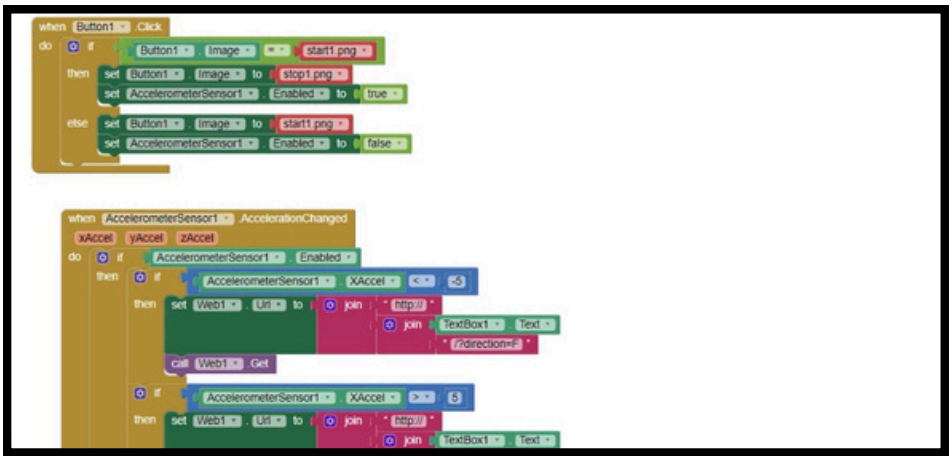
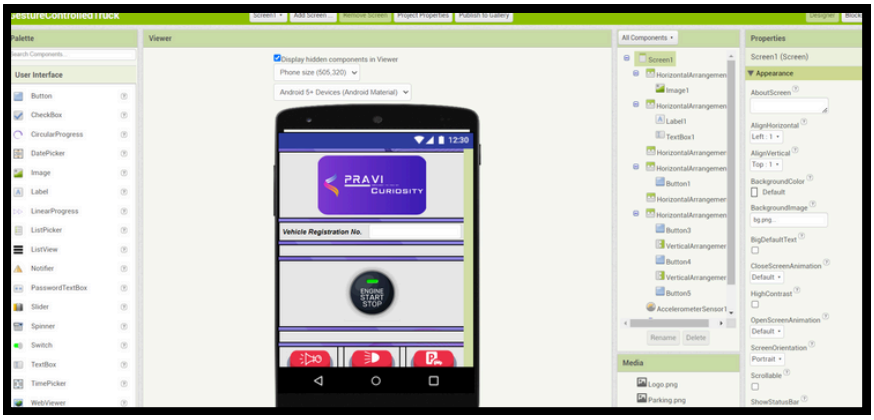
APP DEVELOPMENT PLATFORM





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USER INTERFACE IN ANDROID DEVICE

- User Interface is fully customizable according to requirement.
- In the vehicle registration number, enter the IP address of Nodemcu to establish connection between Robot and Mobile Device.
- To start and stop the robot, press the "ENGINE START STOP" button.
- The below three buttons are use for Horn, Headlight and Parking respectively.

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FUNCTIONS CURATED FOR EASY UNDERSTANDING

Gesture_Controlled_Robot.ino

```
118  /* Move Forward */
119  void move_forward() {
120    digitalWrite(RMotor_1, LOW);
121    digitalWrite(RMotor_2, HIGH);
122    digitalWrite(LMotor_1, HIGH);
123    digitalWrite(LMotor_2, LOW);
124  }
125
126  /* Move Backward */
127  void move_backward() {
128    digitalWrite(RMotor_1, HIGH);
129    digitalWrite(RMotor_2, LOW);
130    digitalWrite(LMotor_1, LOW);
131    digitalWrite(LMotor_2, HIGH);
132  }
133
134  /* Turn Right */
135  void turn_right() {
136    digitalWrite(RMotor_1, LOW);
137    digitalWrite(RMotor_2, HIGH);
138    digitalWrite(LMotor_1, LOW);
139    digitalWrite(LMotor_2, HIGH);
140  }
141
142  /* Turn Left */
143  void turn_left() {
144    digitalWrite(RMotor_1, HIGH);
145    digitalWrite(RMotor_2, LOW);
146    digitalWrite(LMotor_1, HIGH);
```

- Code of the bot is written in most understandable and easiest way.
- Functions have been kept small and precise.

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