



**Project: Voice Control Robot**

**Course Title: Microprocessor and Interfacing Lab**

**Course Code: CSE 316**

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Title: Voice-Controlled Arduino Robot with Existing Mobile App

**Needs/Problems:**

People want to create voice-controlled cars using Arduino, and there are available mobile apps that can control this robot. However, there is a lack of simple and clear guidance on how to put together the hardware, like Arduino, L298N motor driver, Bluetooth HC-05, and others, and make them work with these mobile apps. This project aims to provide easy-to-follow instructions and resources to help people build this robot with existing apps, making the process accessible to technology enthusiasts.

**Goals/Objectives:**

1. Develop an easy-to-understand guide for assembling and configuring the hardware components of a voice-controlled Arduino robot.
2. Create comprehensive documentation that simplifies the process for individuals who want to use existing mobile apps for controlling this robot.
3. Ensure that these resources are accessible to a wide audience.

**Key Benefits:**

1. Empower technology enthusiasts to build voice-controlled robot using readily available mobile apps.
2. Make the process easy to understand for beginners.
3. Enable a broader audience to enjoy this exciting technology.

**Methodology:**

To achieve the project objectives, we will:

Provide step-by-step instructions on assembling and configuring the hardware components. Offer clear explanations on how to connect and control these cars using existing mobile apps. Create a user-friendly guide that simplifies the process from start to finish.

**Resources:**

Hardware components (like Arduino, L298N motor driver, Bluetooth HC-05, etc.) and Access to mobile apps available on app stores.

**Summary:**

This project aims to bridge the gap between available mobile apps for controlling Arduino robot and technology enthusiasts who want to build this robot. By providing easy-to-follow instructions and accessible resources, we seek to empower individuals to create voice-controlled Arduino robot with existing apps.