

Mentor

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Content

O1 O2
Introduction Equipment required

O3 • O4

Development Working and phases Guide





"Home is where the comfort is.
The real comfort lies in living
smart and simple"



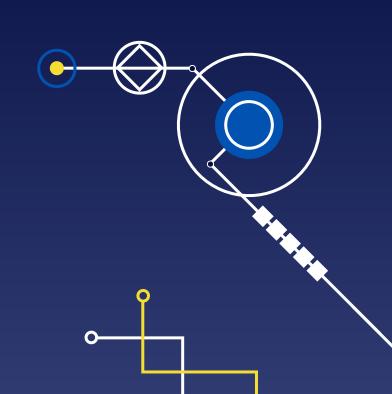






Aim

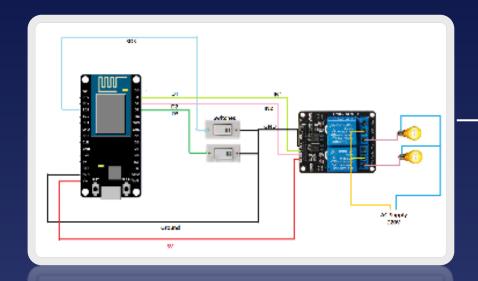
- ☐ Control of the electrical appliances through smartphones and switches simultaneously using a nodeMCU module.
- Developing an end-to-end solution that can be controlled through a full-fledged React Web App with proper authentication and integrated voice command.







- Tactile Switches
- Node MCU
- Connecting wires
- Relay
- Bread board



Development phases

1

Checking the functionality of the circuit designed using Blynk app

- Made a basic bread board circuit and checked its functionality using switches.
- Used Blynk app to control the appliance using wireless means.
- Integrated the functionality of Blynk app with the tactile switches to control the appliance by manual switching and through Wi-Fi parallelly.

Development phases

2

Creating live voltage equivalent of the designed circuit

- □ Powered the circuit directly from the power supply.
- Replaced devices with 220V rated equipment like light bulbs and relay switches.
- Used Google Home App to connect the devices to be controlled.

Development phases

3

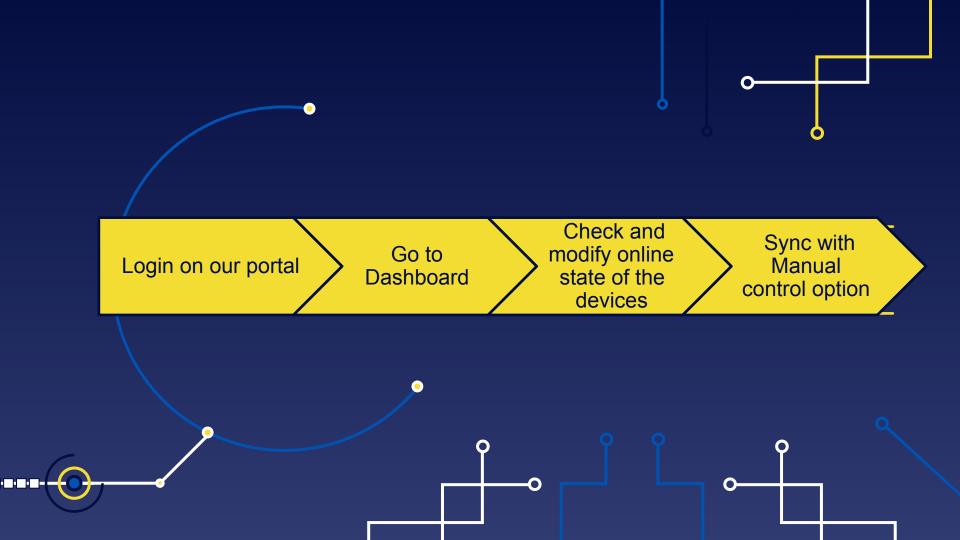
Creating a website for user interaction

- Designed a website using React framework with authentication to remove the necessity of google home.
- Fetching the data from Sinric Pro through API calls.
- Checking the online availability of the devices and changing its state while maintaining the functionality of the tactile switches.

Working Guide

- Download and setup code base locally on your device.
- ☐ Register yourself on Sinric Proportal and obtain App secret, App Key, Device IDs.
- ☐ Add the App secret, App Key, Device IDs and Wi-Fi credentials in the Node MCU code.

- Upload the code onto the Node MCU module.
- ☐ Login on the project website with the same credentials.
- Add and control your devices from the interface provided on the dashboard of our website.







OUR WEBSITE









Alan Integration to the Website via React.

