

THE BREAKTHROUGH IN AGRICULTURE...

SMART AGRICULTURE SYSTEM





Meet The Group



GROUP MEMBERS

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ABSTRACT

- Agriculture plays vital role in the development of economy in the country.
- In India about 70% of population depends upon farming.
- One of the solution to this problem is smart agriculture by modernizing the current traditional methods of agriculture.
- The highlighting features of this project includes smartcontrol and intelligent decision making based on accurate realtime field data.
- This IOT system for smart agriculture is powered by Arduino and includes a DC motor, GSM module, temperature, moisture, and water level sensors. It notifies the phone via app of the levels. When the water level falls, sensors detect it and a water pump is immediately started and if the temperature rises above a threshold. All of this is demonstrated in IOT.

OBJECTIVE



THE FIRST OBJECTIVE

We are planning to do smart plant watering system and implement it using an app.



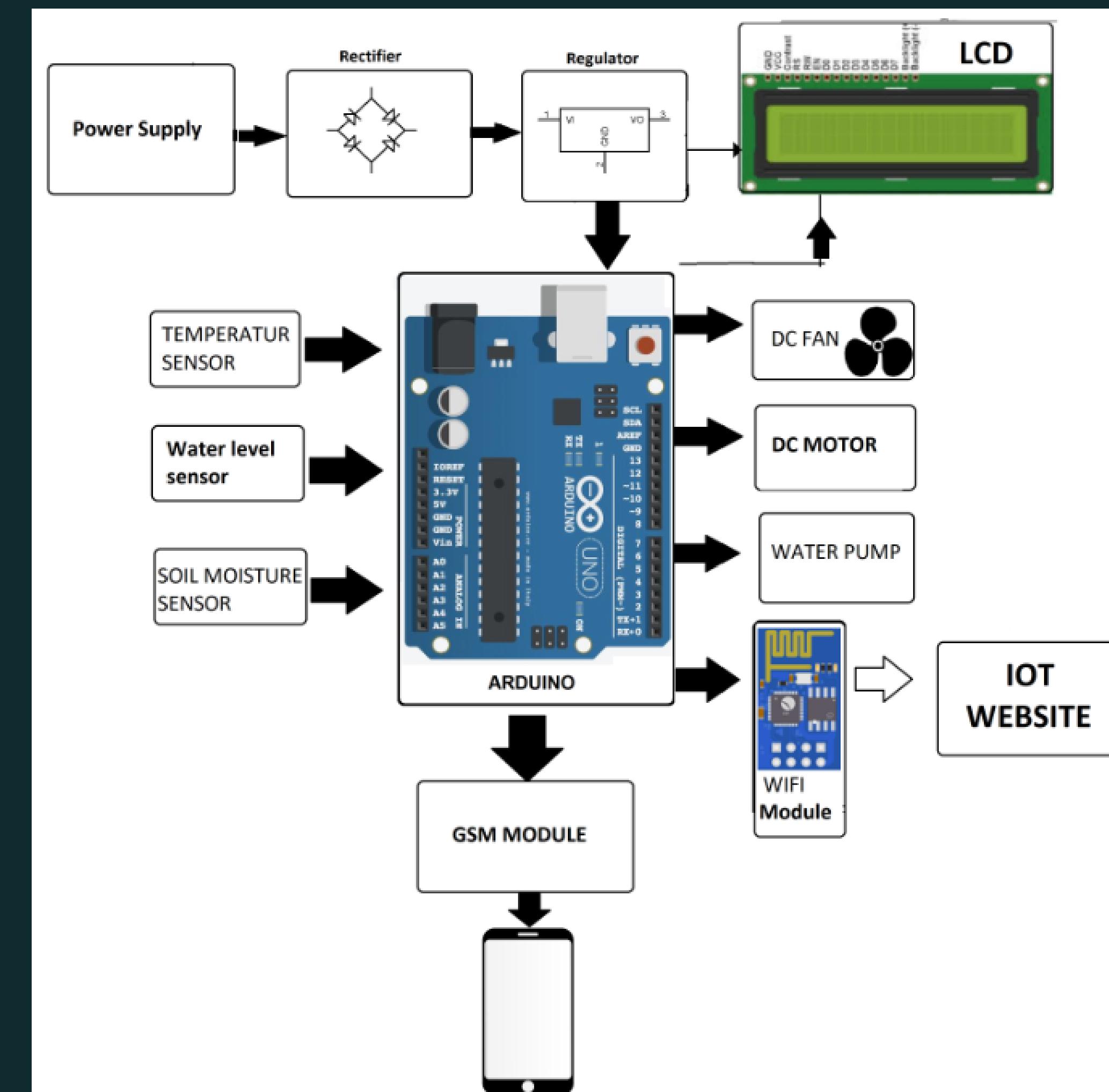
THE SECOND OBJECTIVE

We will measure the soil quality and predict which crop should be planted using mathematic model based on temperature, humidity and Ph.

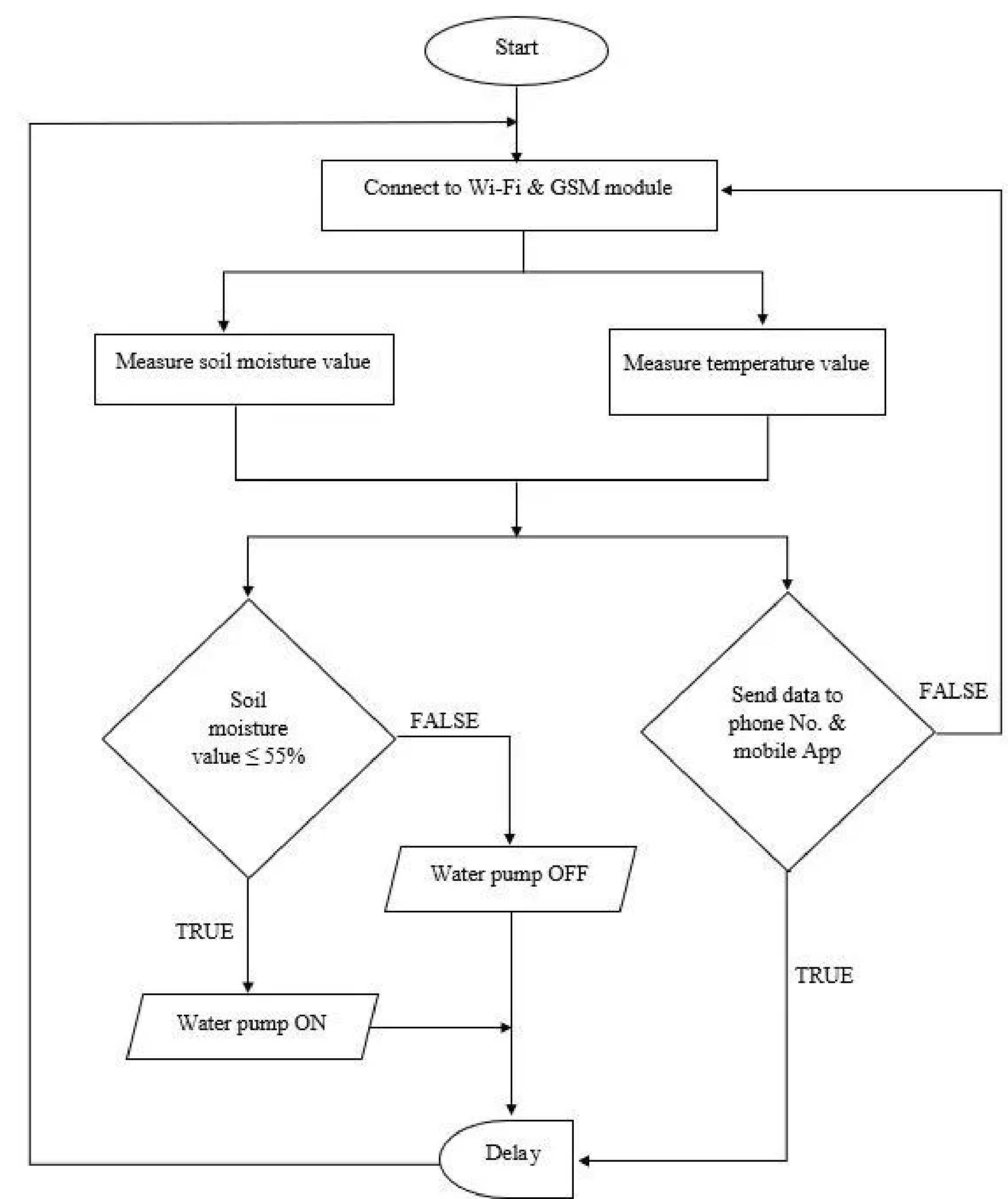
HARDWARE REQUIREMENT

- Arduino
- GSM Modem
- Wifi Modem
- Temperature Sensor
- Humidity Sensor
- Ph sensor
- Relay
- Motor
- Cables and Connectors
- PCB and Breadboards
- LED
- Push Buttons
- Switch

BLOCK DIAGRAM



FLOWCHART



TIMELINE

Review-1

09-SEP-2022

Building
hardware

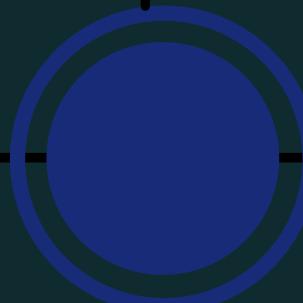
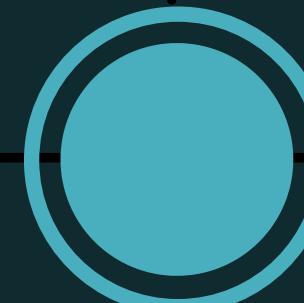
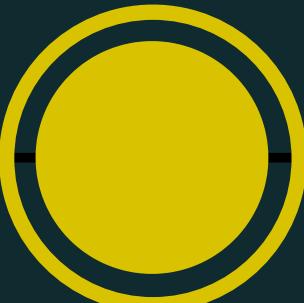
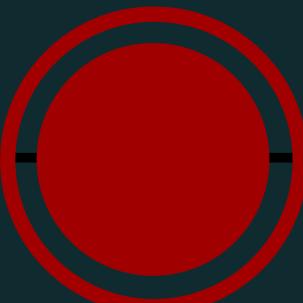
19-SEP-2022

Implementat
-ion

24-OCT-2022

Final report

4-NOV-2022



A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z

Thank You!

Any Questions?