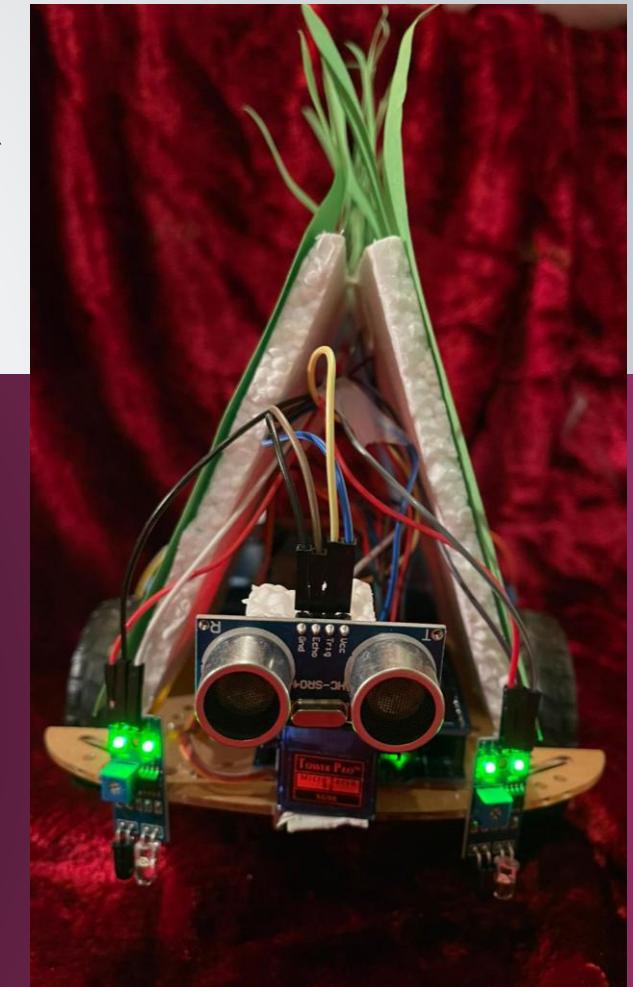
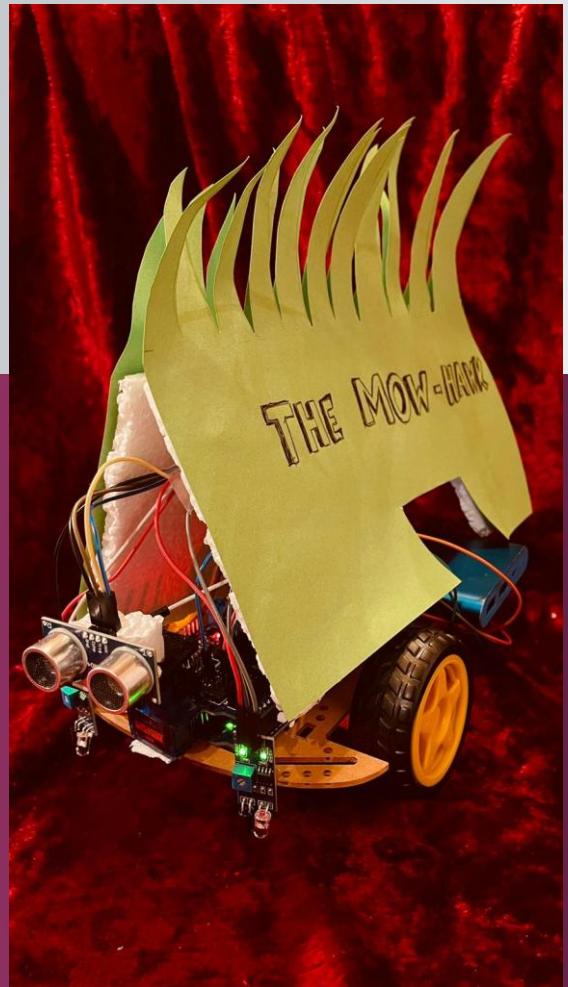


# THE MOW-HAWK

TO STYLE YOUR LAWN MOWALICIOUSLY

Vedhashruthi Harinath – 3302834  
Aadithya Ramamurthy – 3304090





# INDEX

- Tasks completed
- Component List
- Web Interface
- Video Demonstration
- Timeline



# TASKS COMPLETED

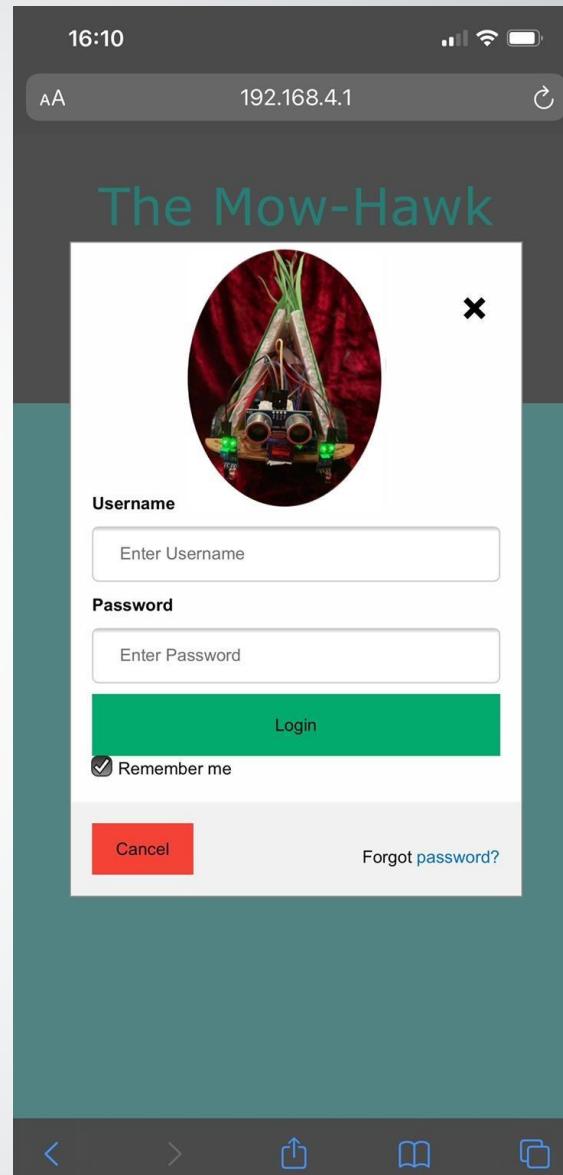
- Simple and easy to build and use.
- Covers the pre-defined Arena.
- Detects and avoids any obstacles during its operation.
- Detects the boundary and edges and stays within it .
- Returns to the charging station when battery is low by line following.
- User-friendly Web interface to operate the mower manually or autonomously.

COMPONENT LIST		Qty
Arduino Uno		1
V5 Shield		1
ESP32		1
Motor driver L298N		1
IR sensors		2
DC Motors		2
Ultrasonic Sensor		1
Plastic Base		1
Wheels		3
Ingress Protection Cover		1

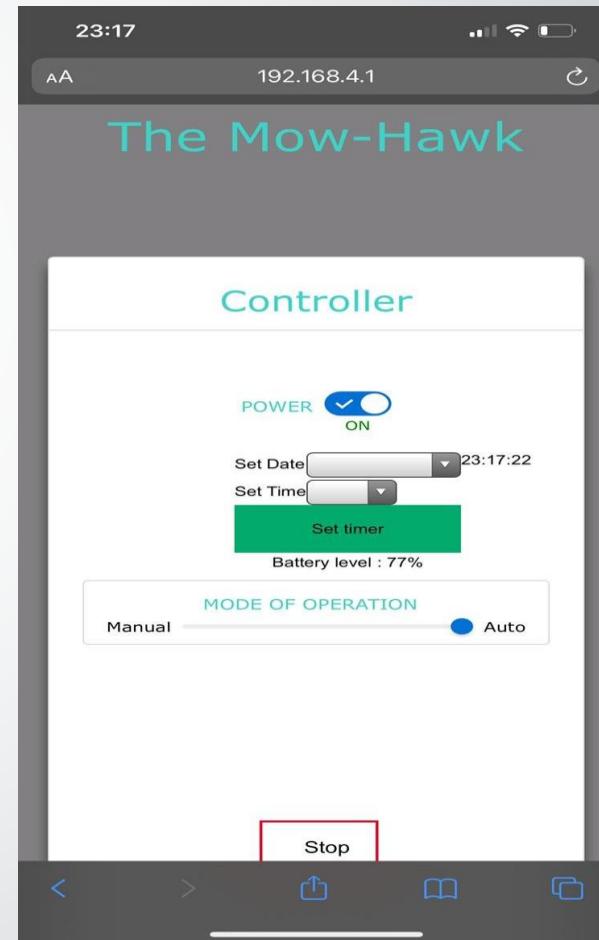
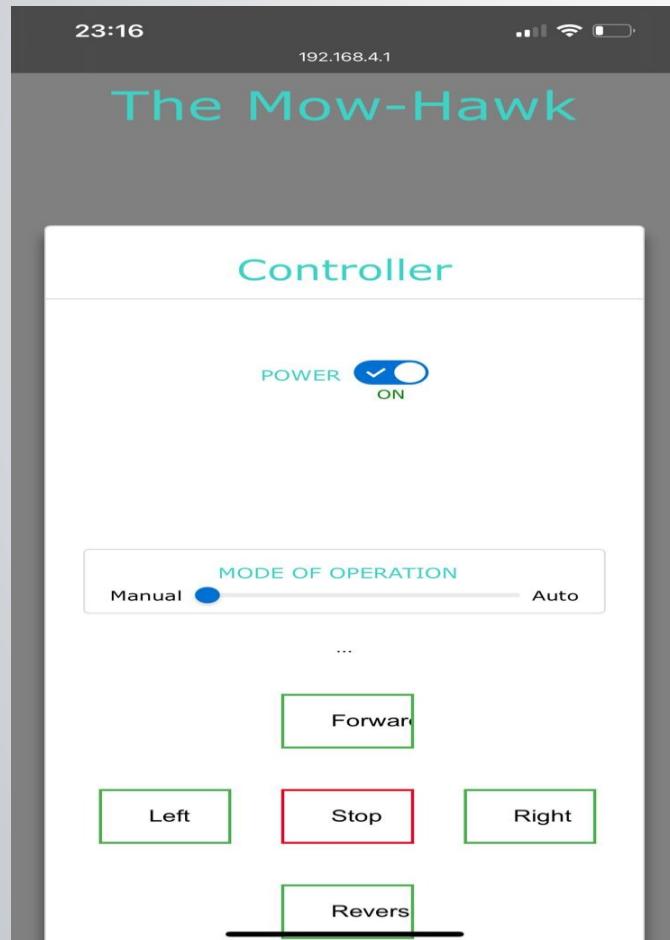
COMPONENT LIST		Type
Screws		M3
Nuts		M3
Screw Long		M3
Spacer		M3
Cables		Male-Female
Cables		Female-Female
Cables		Male-Male
4 double AA Batteries		1.5 V
Power Bank		5 V

# WEB INTERFACE

- Login page
- Power on-off
- Manual – auto mode
- Directional Buttons on the manual mode
- Emergency Stop
- Scheduling and time log of the operation
- Battery level indication

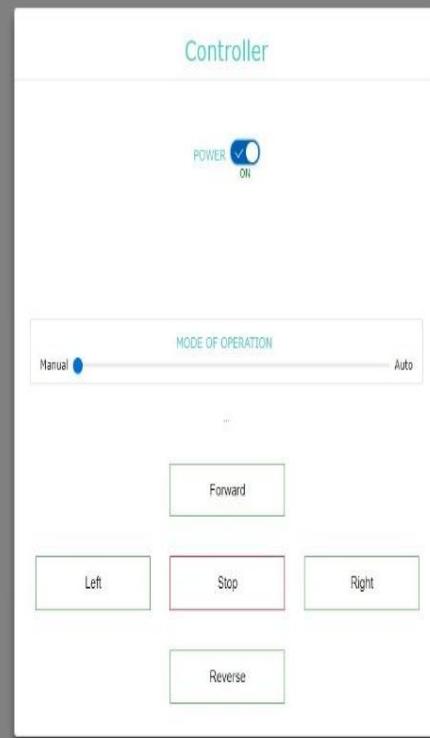


# ON PHONE

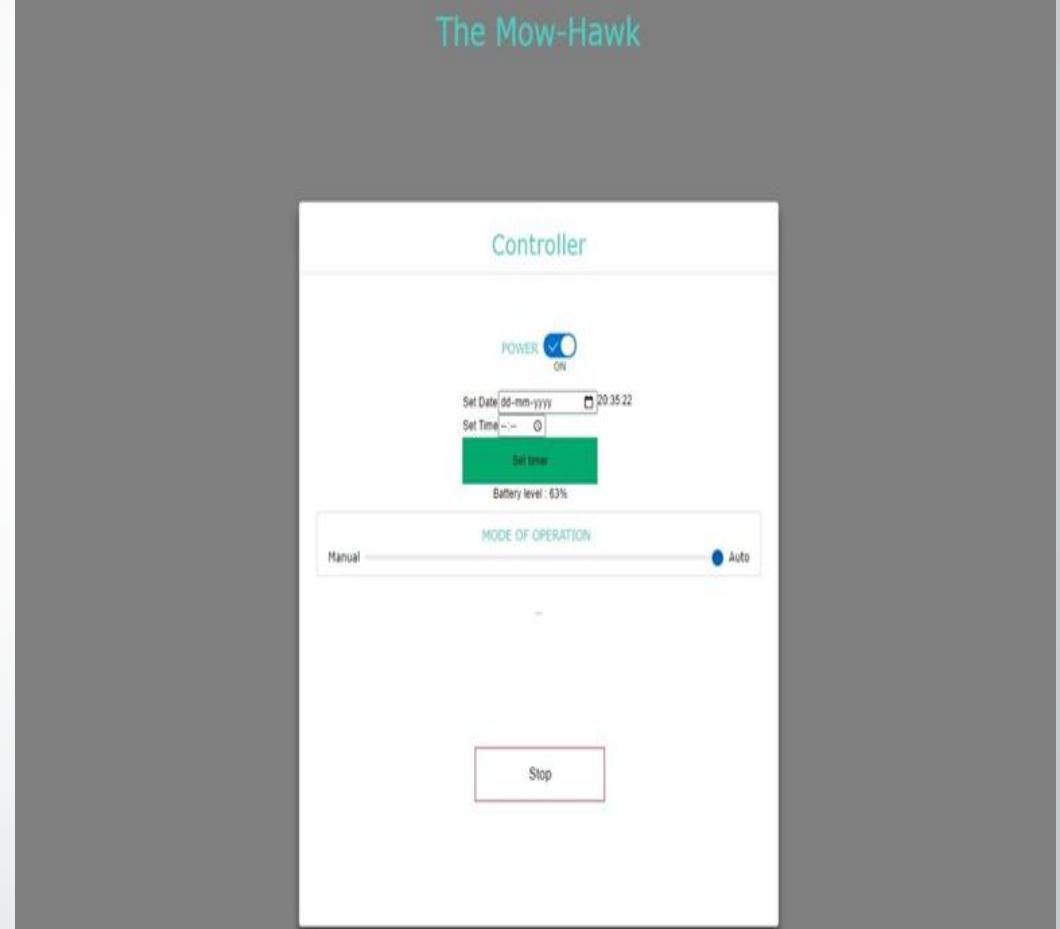


# ON DESKTOP

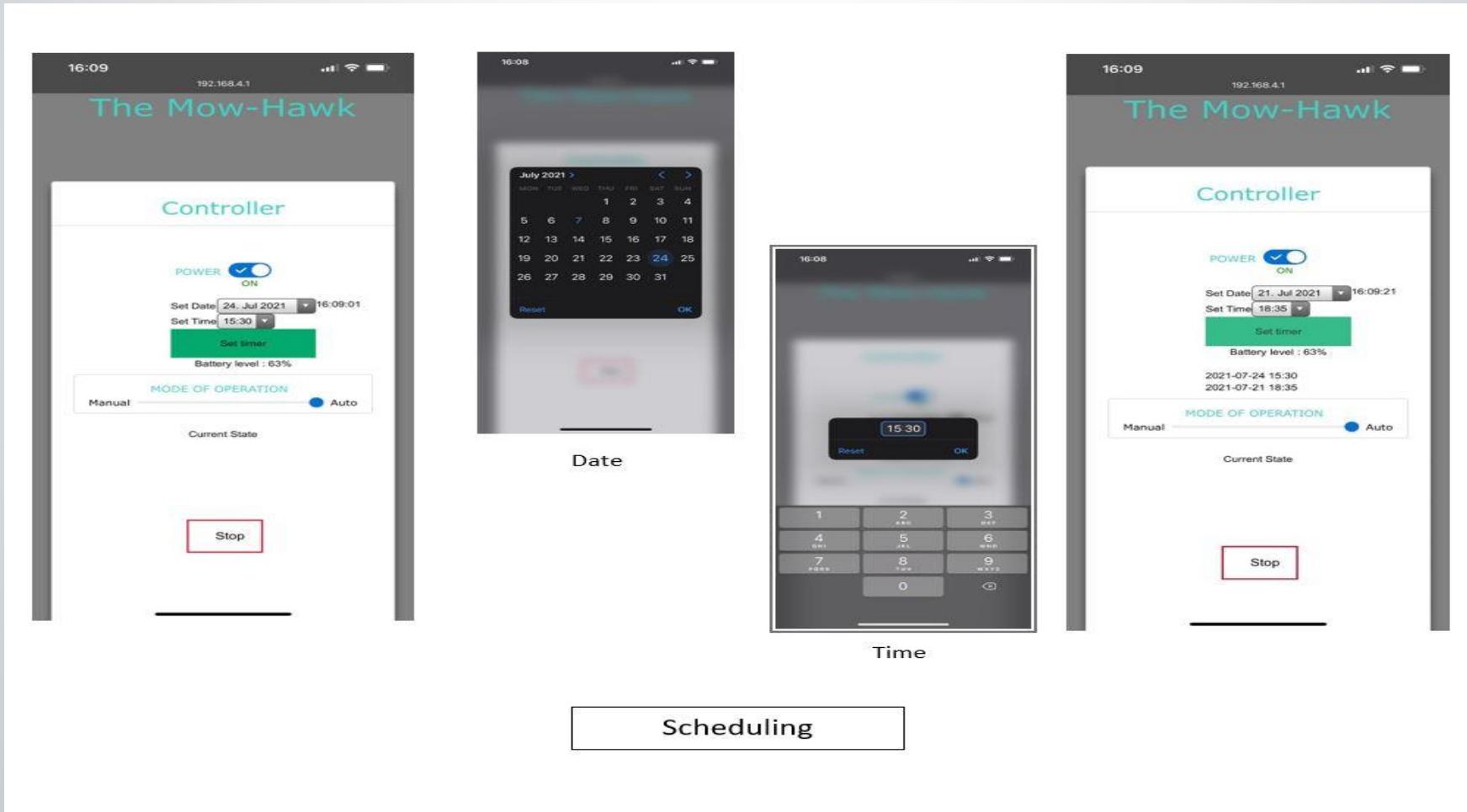
The Mow-Hawk



The Mow-Hawk



# SCHEDULING AND TIME LOG





## VIDEO DEMONSTRATION





# TIMELINE ON TRELLO BOARD

The Mow-hawk Workspace has a free trial of Business Class for 14 more days.

**Board** The Mow-hawk **Done** **To Do** **Doing** **Testing**

Mower Assembly  
Testing of DC Motor  
Testing of Ultrasonic sensor, servo motors and Obstacle detection on the bot.  
Testing of IR sensors, boundary detection, line following and returning to charging station  
Battery monitoring  
Requirement specific documentation  
HTML page and control of bot through the web app manually and autonomously  
User manual  
To make the bot aesthetic

To Do  
Doing  
Testing

+ Add another card

+ Add another card

+ Add another card

---

---

# THANK YOU !

