

# ABSTRACT

**Team Name- Fast and Furious**

**Project Name- Swachhata Abhiyaan**

## **Members-**

- Harshit Agrawal (140100070)
- Shitanshu Dehgal (140100051)
- Rishikesh Thakre (140100030)
- Shantanu Shah (14D170001)

Our project will mainly focus on making an automated bot for mopping the room floors. Automation is done by Arduino coding and the board used will be Arduino Uno R3. We will be using 4 ultrasonic sensors for detection of obstacles according to which the bot will take decisions and move accordingly. Analogous to this robotic vacuum cleaners available in the market provides 75%-85% floor coverage; so we focus on the best coverage we could get.

## **Tentative Plan-**

The whole project is divided roughly into 4 sections.

1. Circuit making to be done by Shitanshu.
2. Algorithm making and coding to be done by Harshit.
3. Designing and making of cleaning mechanism to be done by Shantanu.
4. Most basic part of designing and making a functional bot to be done by Rishikesh.

## **Tentative Checkpoints-**

<b>Days</b>	<b>Circuit</b>	<b>Coding</b>	<b>Cleaning mch</b>	<b>Design</b>
<b>1-10</b>	Chalking out the circuit plan	Algorithm making and blueprint of code	Googling various mechanisms and deciding feasible one	Making blueprint and discovering the various components used.
<b>11-20</b>	Circuit assembly and testing	Finish coding	Making of machinery	Fabricating the design
<b>21-35</b>	Assembly, testing and debugging			
<b>36-41</b>	Making project reports, video, manual and other formalities			