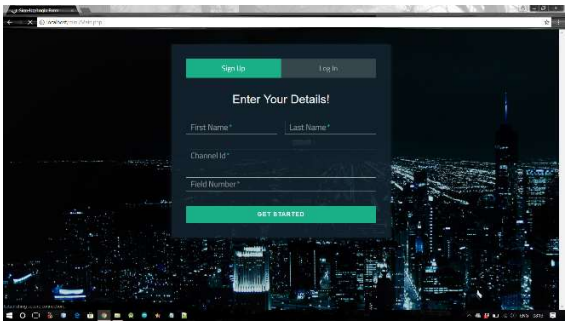
SHRI RAMDEOBABA COLLEGE OF ENGINEERING & MANAGEMENT, NAGPUR
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ASSESSMENT OF THE PROJECT 2017-18

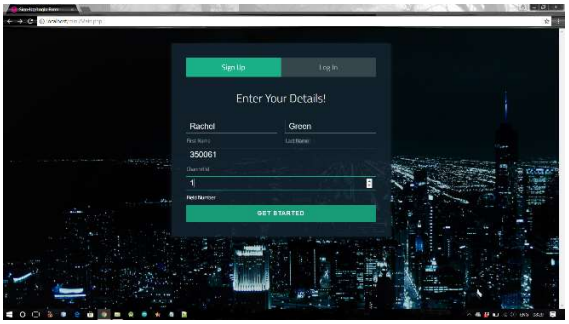
Title of the Project	**Device Automation and Control using ESP8266**
Student Names	1. Akshay Chopra 2. Ankita Singh 3. Piyush Keswani 4. Isha Bahendwar 5. Rishabh Gupta 6. Ruchit Bhardwaj
Semester & Shift	V (Shift-1)
Guide Name	**Prof. Rashmi Welekar**

Criteria
1. Classification and Technology Automation using Internet Of Things Software used: MySQL, HTML5, CSS3, JavaScript, PHP, WAMP Server Hardware Used : Arduino Uno, Application Board, ESP8266, LM35 Temperature Sensor, DC Motor, Amazon's Alexa Voice Assistant.
2. Project Objectives The aim of the project is to collect data from sensors (in this case, LM35 Temperature sensor) and store that data on a hosted server. Also, the module allows to control the state of a device from the server itself.
3. **Methodology and Implementation** The module was integrated using Arduino Uno acting as an interface between ESP8266 that provided Wi-Fi functionality to the model and the sensors along with the DC Motors. Real time temperature data is collected and stored into a database which is then hosted to our server. Also, the device state can also be controlled from the server which in this case is a DC Motor, the speed of which is controlled from the server itself. Alexa is controlling a light bulb which provides a 'smart' feature to the project as a whole.
4. Project Outcome • Recording Real Time Temperature Readings and displaying them in a graphical format. • Controlling the speed of a DC motor from a server • Retrieving the last recorded temperature from a voice command. • Controlling a light bulb using Alexa • Generating a tweet if the temperature exceeds a particular value.
5. Success of the project and Industry Involvement The project was successfully built and completed and can serve as successfully contribute towards making 'smart' devices and appliances.

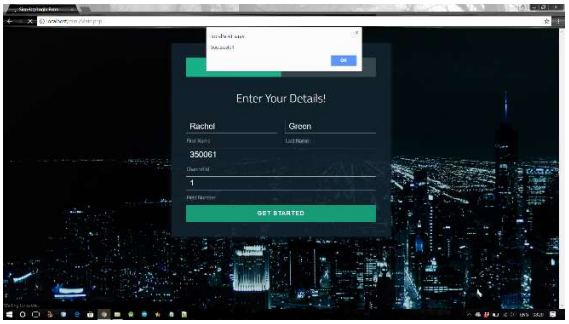
PROJECT SCREENSHOTS



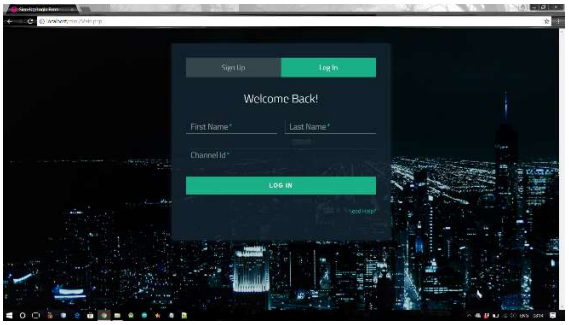
Screenshot 1: Sign Up Page



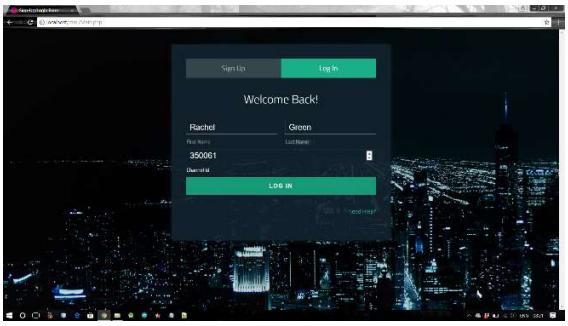
Screenshot 2: Enter Details (For Sign Up)



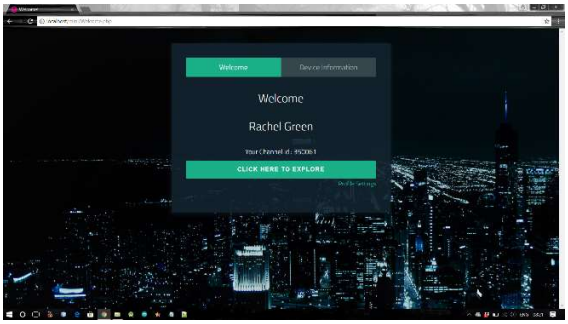
Screenshot 3: Successful Sign Up



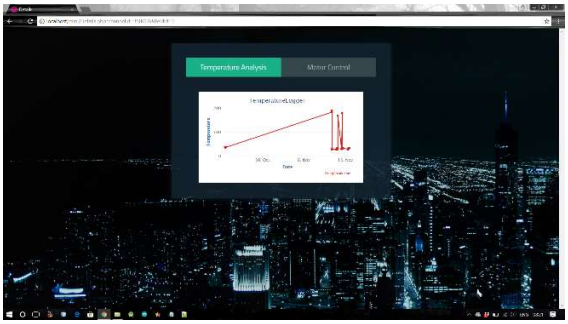
Screenshot 4: Log In Page



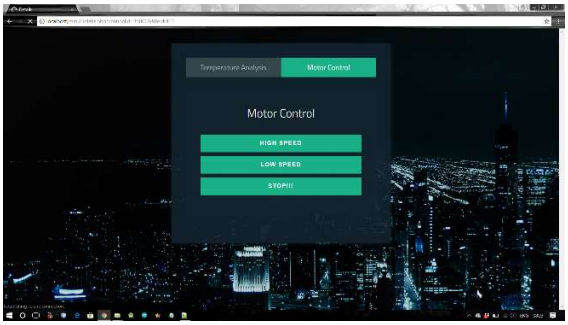
Screenshot 5: Enter Details (For Log In)



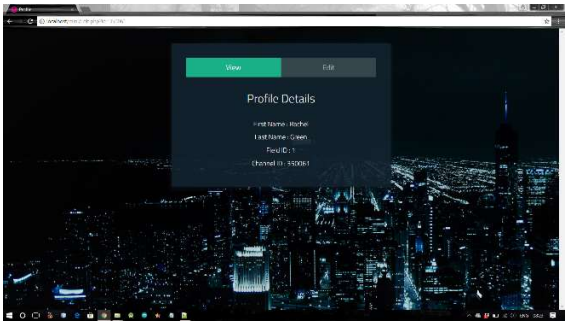
Screenshot 6: Successful Log In



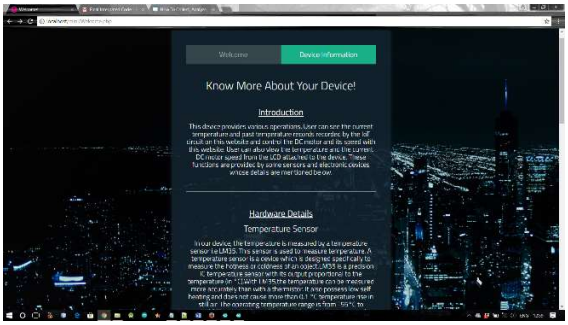
Screenshot 7: Temperature Analysis



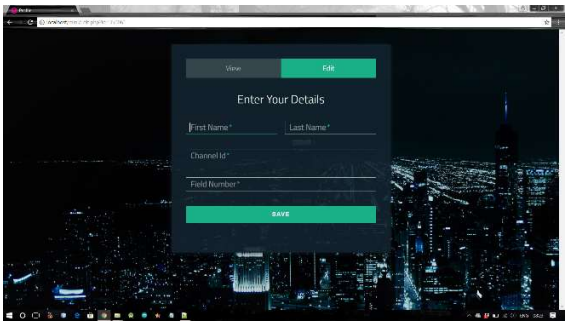
Screenshot 8: Motor Speed Control



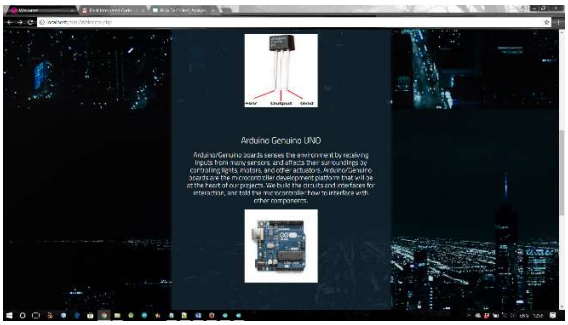
Screenshot 9: Profile Details



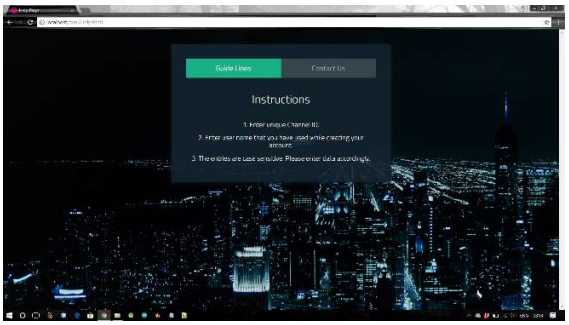
Screenshot 12: Device Information



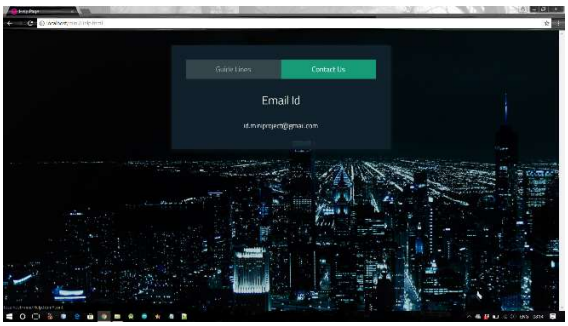
Screenshot 10: Edit Profile



Screenshot 13 : Device Information



Screenshot 11: Instructions



Screenshot 14: Contact Us Page

Prof. R. Welekar	**Dr. M.B. Chandak**	**Prof. V. Bongirwar**
Project Guide	**HOD, CSE**	**Project Coordinator**