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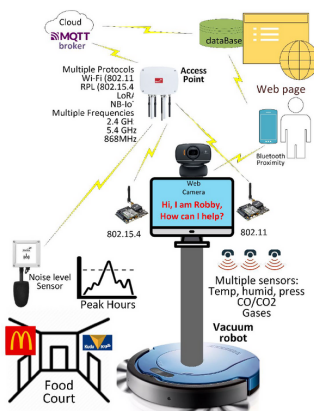
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Engineering
& Technology | 

Intelligent Hoover as an IoT solution

Background

AI powered Robotic Vacuum cleaners referred as the hoovers of type iRobot create 3 ,which are the autonomous devices which are being used worldwide. The new system being developed would be the automated robotic hoover which would be significantly effective and easy in using. The AI powered Robotic vacuum cleaners would include the functionalities of biometrical recognition features which would allow facial or even voice recognition abilities.



Solution

The goal of the system is to design, develop and deploy an application that uses some tools of the biometrics features including voice and facial recognition for monitoring results on Android Studio application with different specific modules for this project. the storage and availability of the system must monitor and collect the data in real time and extract the parameters using MySQL database. In addition, connecting the developed biometric features application using machine learning libraries of the OpenCV libraries and teachable machines through Android Studio IDE.

Approach:



Admin logs in using facial recognition biometric then allowing inputting the locations to be cleaned around the campus. Checking the database provided around the campus.

The allowance of using voice recognition identified by the person giving the cleaning instructions.

The capability to add new biometric data features of the users in the system. Editing the biometric features details of any of the users and ensuring it would be accepted

Tools/Resources Used:

