Colour and odour based evaluation of fruits using IOT

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Abstract

Mostly the process of selecting the fruits in their best ripen state is done manually and so it is much time consuming and prone to errors. So this paper proposes an IoT based approach for mimicking the behaviour of customer while selecting a fruit in automated manner using TCS3200 Colour Sensor and MQ-4 Gas Sensor. Customers while selecting fruits firstly observe the colour. Secondly customers try to sense the odour of a fruit and then they buy it. Similarly here in this proposed approach firstly the colour of fruit is detected by TCS3200 Colour Sensor and then the Odour of fruit is Detected by MQ-4 Gas Sensor after that only the fruit is approved.

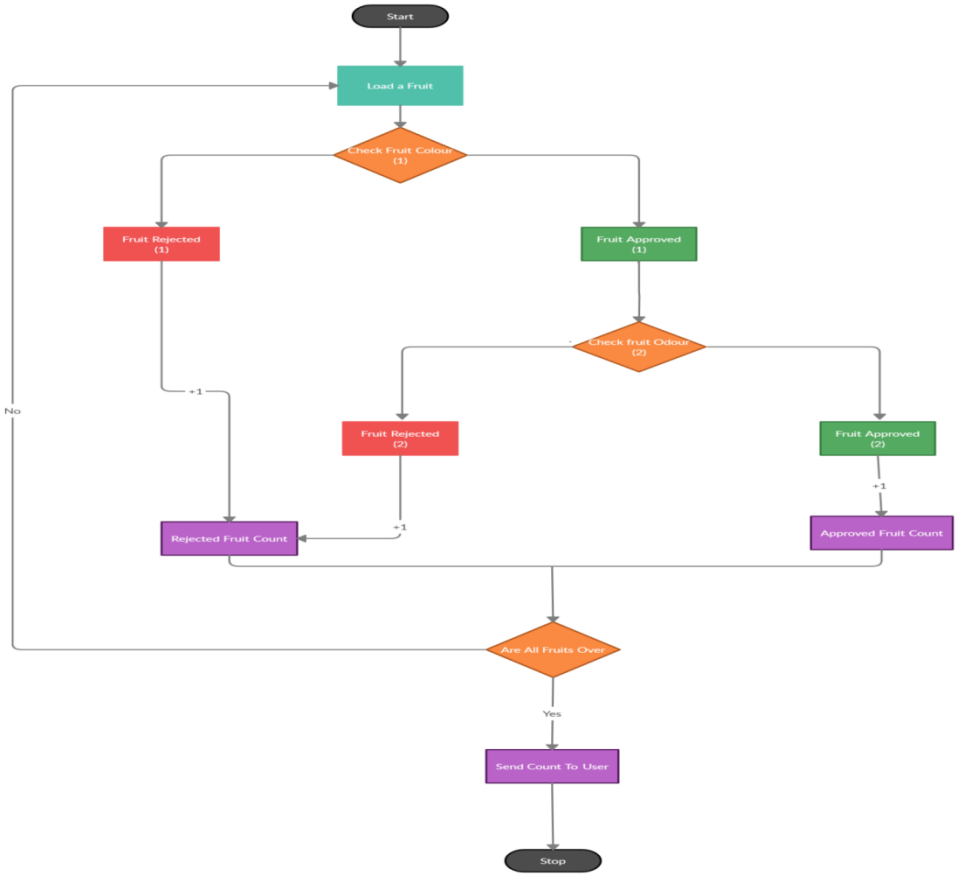

Fig.1. Proposed System Flow Chart

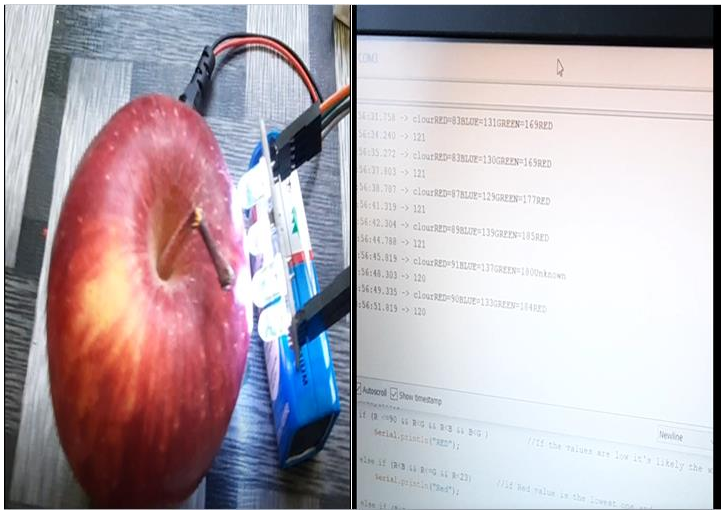

Fig.2. TCS3200 sensor detects apple colour

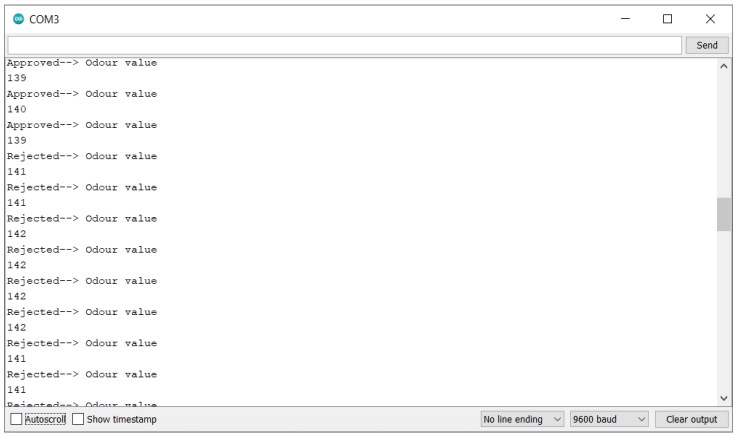

Fig.3. MQ4 sensor checks the odour of apples

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