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Undani – A System for Enhanced Farming

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Ashish Srivastava ; Rahul Mahajan ; Dnyandeep Sagar ; Pratik Shende All Authors

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Abstract: Undani, a Sanskrit word which means reservoir of water for irrigation. Hardly one percent of the total water present on the earth is fresh water and easily accessible. Looking at the wastage of water in the surrounding, it is very obvious to predict that the upcoming generation will have to face the scarcity of water in near future. Considerable part of the waste water comes out through the traditional and manual irrigation techniques. Also it can be perceived that the quality crop production is decaying day by day due to lack of smart farming techniques and awareness about it. This paper deals with the efficient and convenient solution to these problems. In this paper, a miniature is proposed to detect the water content of the soil i.e. soil moisture using soil moisture sensor. The output of the sensor is then processed through ATmega328P microcontroller based Arduino UNO. The output of this Arduino determines whether action needs to be taken or not. The water pump input is then toggled accordingly. The proposed system is low cost and can be procured by farmers facing economic distress.

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