MONITORING SOFTWARE FOR CROP CULTIVATION

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On the large scale, there is used the greenhouses, which are providing the most comfortable conditions for the growing of plants in limited space. The microclimate of a greenhouse must be balanced and it should be taking into account all parameters as humidity, air composition, temperature etc.

The online monitoring, via the Internet, of the temperature and humidity in the greenhouse and in the soil, as well as the automation of the control these parameters leads to the reduction of the production costs and unjustified consumption of electricity.

In this paper was done the study about climatic factors that influence directly the growing process of plants and was developed the monitoring software system for this automatic control system. This monitoring software offers to the user the possibility to monitor the parameters of the agricultural crops, especially offers possibility:

1. Adding agricultural crop parameters.
2. Monitoring the parameters of agricultural crops.
3. Real-time video streaming.
4. Remote control.
5. Monitoring events in the system.
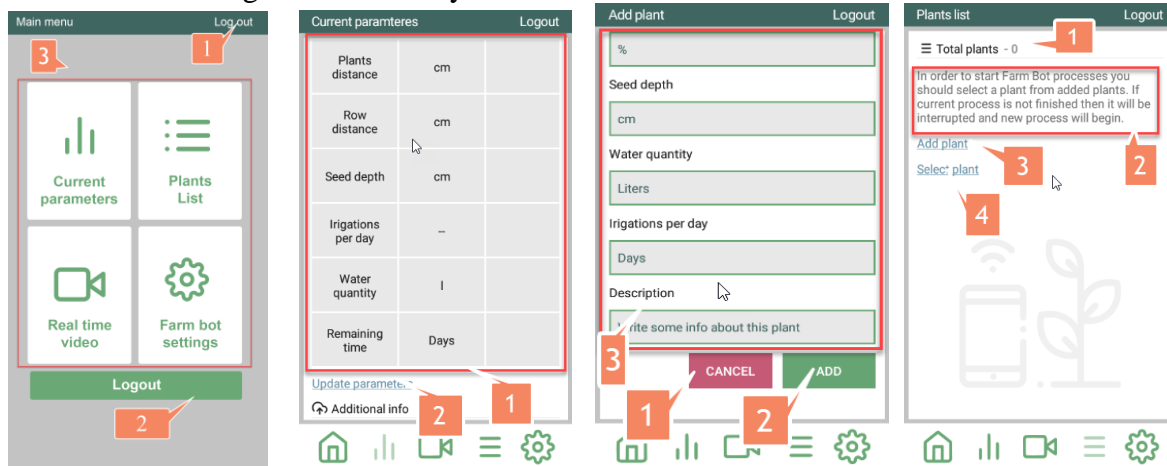
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References

1. MOISE, A., POPESCU, C. *Sisteme de conducere a roboţilor, structuri de bază*. Editura Universităţii Petrol-Gaze din Ploieşti, 2015.
2. POZNA, C. *Teoria sistemelor automate*. Bucureşti: MATRIX ROM, 2004.
3. FOWLER, M. *Patterns of Enterprise Aplication Architecture*, Editura Copyrighted Material, Melrose August 2002.