Airponics Chamber

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Stakeholder Needs

The Airponics Chamber is guided by a series of stakeholder needs, listed below.

1: Optimum aeroponics growth temperature

> In an aeroponics system, the optimum growth chamber temperature should be between 4 and 30 degrees celsius for successful plant growth.[1]

2: Minimum aeroponics light quantity

> In an aeroponics system, it is necessary to provide sufficient light quantity of at least 8 to 10 hours per day for healthy plant growth.[2]

User Stories

The Airponics Chamber's stakeholder needs are then used to identify a series of user stories which then lead to design decisions captured in data structure and activity definitions.

Data Structures

This section covers each data structure type in the **Airponics Chamber**.

[1] V. Otazú, Manual on Quality Seed Potato Production Using Aeroponics, vol. 44, International Potato Center (CIP), Lima, Peru, 2010, https://doi.org/10.4160/9789290605041

[2] Imran Ali Lakhiar, Gao Jianmin, Tabinda Naz Syed, Farman Ali Chandio, Noman Ali Buttar, Waqar Ahmed Qureshi, "Monitoring and Control Systems in Agriculture Using Intelligent Sensor Techniques: A Review of the Aeroponic System", Journal of Sensors, vol. 2018, Article ID 8672769, 18 pages, 2018. https://doi.org/10.1155/2018/8672769