req [package] Requirements [Concept Requirements]

«requirement»
Environment monitoring

Id: CR-01
Text: The system shall be able to measure envirnoment variables.

«requirement»
Temperature Sensing

Id: CR-02
Text: The system shall be able to measure the ambient temperature.

«requirement»
Light Level Sensing

Id: CR-03
Text: The system shall be able to measure the light level in the room.

«requirement»
Moisture Sensing

Id: CR-04
Text: The system shall be able to measure the moisture in the plant's soil.

«requirement»
Data Processing

Id: CR-05
Text: The system shall be able to process the information collected.

«requirement»
Critical tresholds

Id: CR-06
Text: The system shall compare the environment masured values with a preconfigured treshold.

«requirement»
Ask for Help

Id: CR-07
Text: The system shall be able to generate alerts when a measured parameter is out of the configured range.

«requirement»
Sound Alert Generation

Id: CR-08
Text: The system shall be able to generate a sound alert when needed.

«requirement»
Visual Alert Generation

Id: CR-09
Text: The system shall be able to generate a visual alert when needed.

«requirement»
Plant Status

Id: CR-10
Text: The system shall provide the user a menu to visualize the plant status

«requirement»
Request irrigation

Id: CR-11
Text: The system shall be able to request the user for irrigation when the soil moisture value is lower than the configured treshold.

«requirement»
Request More Light

Id: CR-12
Text: The system shall be able to request the user to increase the light level when the light level value is lower than the configured treshold.

«requirement»
Request Less Light

Id: CR-13
Text: The system shall be able to request the user to decrease the light level when the light level value is higher than the configured treshold.

«requirement»
Inform Low Temperature

Id: CR-14
Text: The system shall be able to inform the user to when the temperature is lower than the configured treshold.

«requirement»
Inform High Temperature

Id: CR-15
Text: The system shall be able to inform the user to when the temperature is higher than the configured treshold.

«requirement»
Care actions

Id: CR-16
Text: THe system shall be able to sugest care actions for the plant to the user.

«requirement»
Configuration Menu

Text: The system shall provide the user a configuration menu.

«requirement»
Volume Control

Id: CR-0
Text: The system shall allow the user to configure the sound volume.

«requirement»
Brightness Control

Id: CR-0
Text: The system shall allow the user to configure the brightness of the lights.

«requirement»
Measure Period Control

Id: CR-0
Text: The system shall allow the user to configure the evironment variables measurement period.

«requirement»
Measure Treshold Control

Id: CR-0
Text: The system shall allow the user to configure the desired treshold values.

«requirement»
Local database

Id: CR17
Text: The system shall be register locally the measured values.

«requirement»
Data Restriction

Id: CR-18
Text: The system shall not collect any sesnible or personal data without user permition.

«requirement»
Data Protection

Id: CR-19
Text: The system shall not share the data collected without user permission.

«requirement»
Off-line operation

Id: CR-20
Text: The system shall be able to operate without internet conection for essential functions.

«requirement»
Esscential Functions

Id: CR-21
Text: The system shall recognize as essential functions: temperature sensing, light level sensing, moisture sensing, sound alert generation and visual alerte generation.

«requirement»
Emotion representation

Id: CR-22
Text: The system shall be able to simulate emotion by usng light and sound.

«requirement»
Easy Maintenance

Id: CR-23
Text: The system components ahll be accessible and easy to give maintenance.