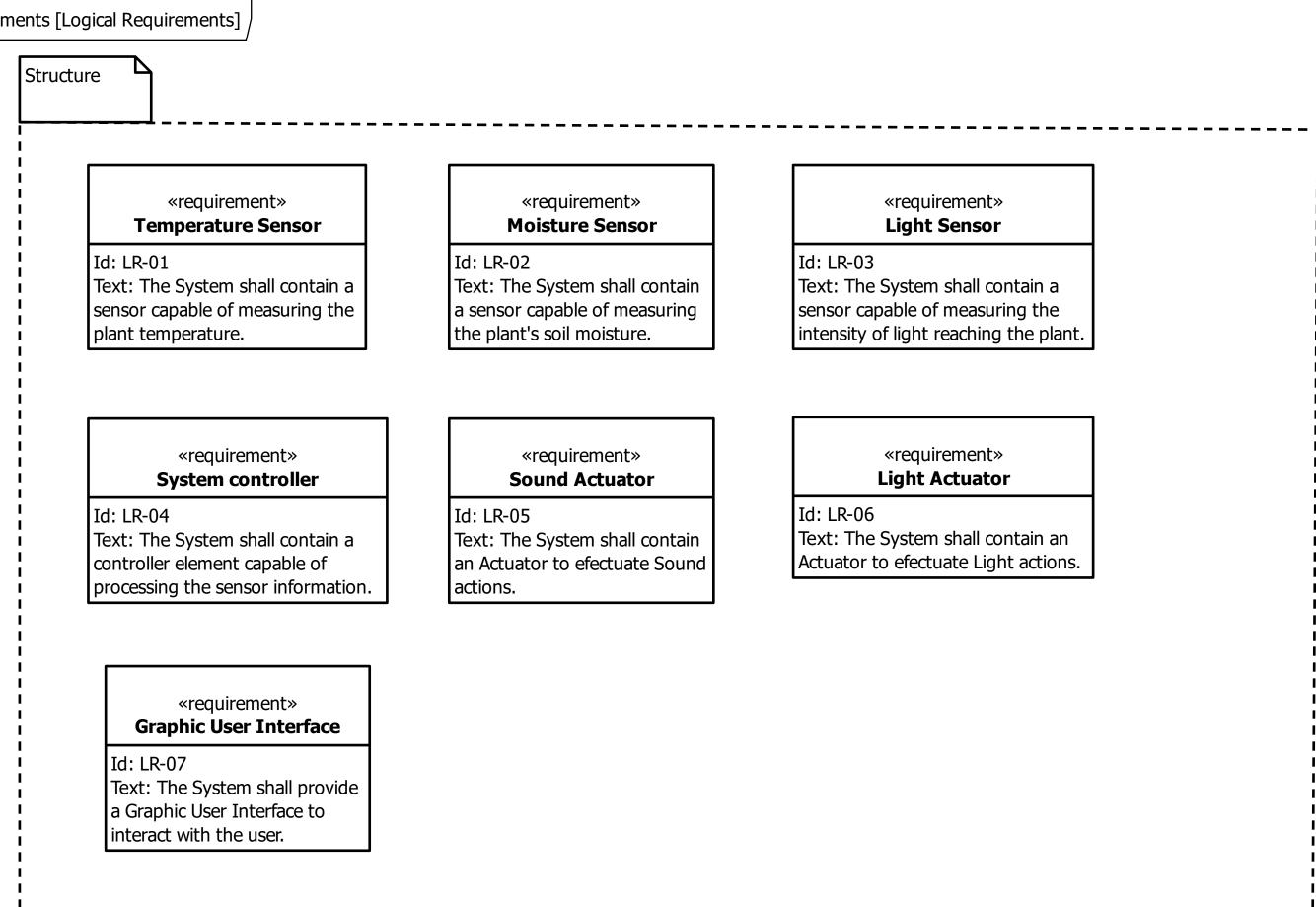
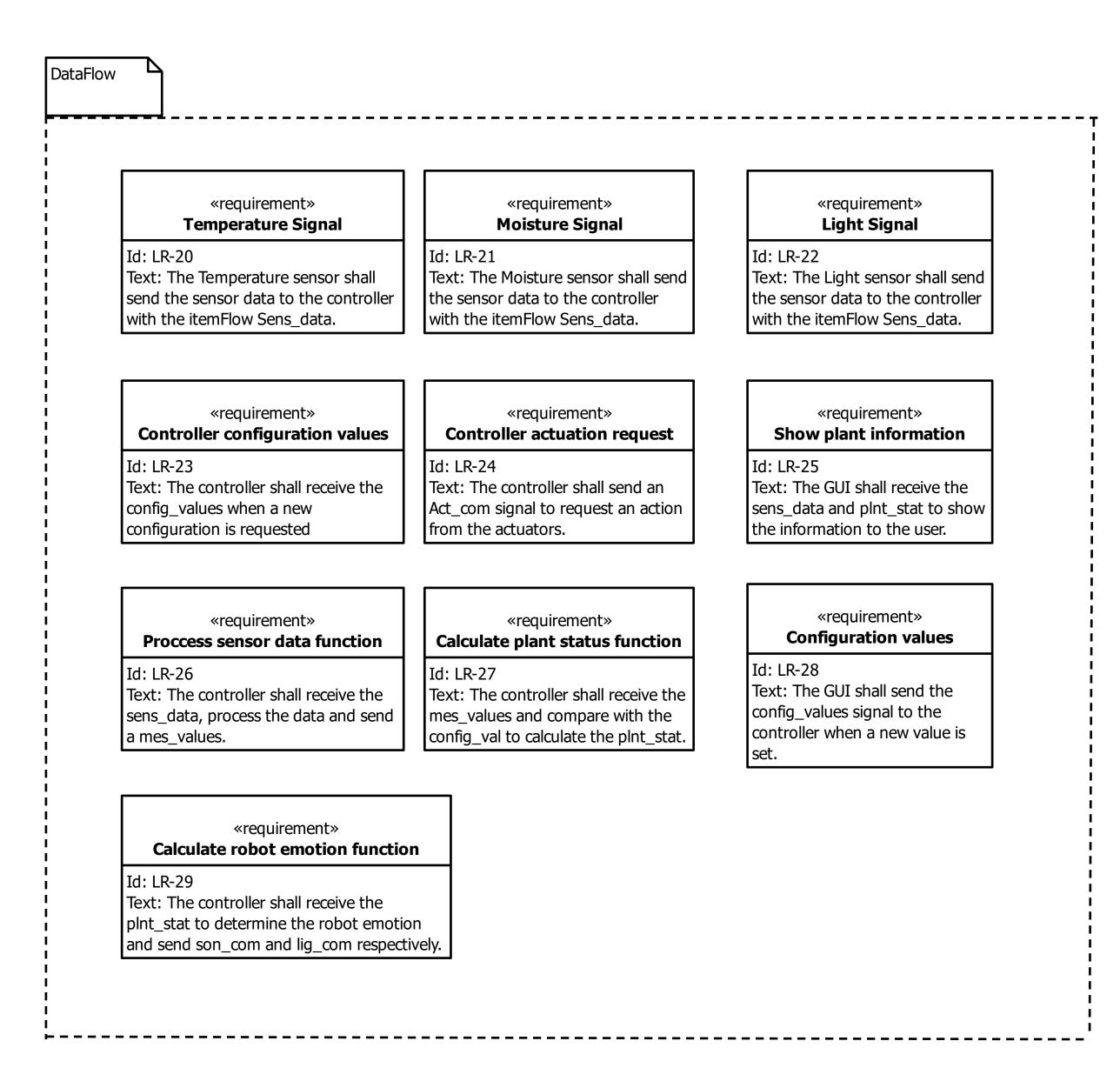
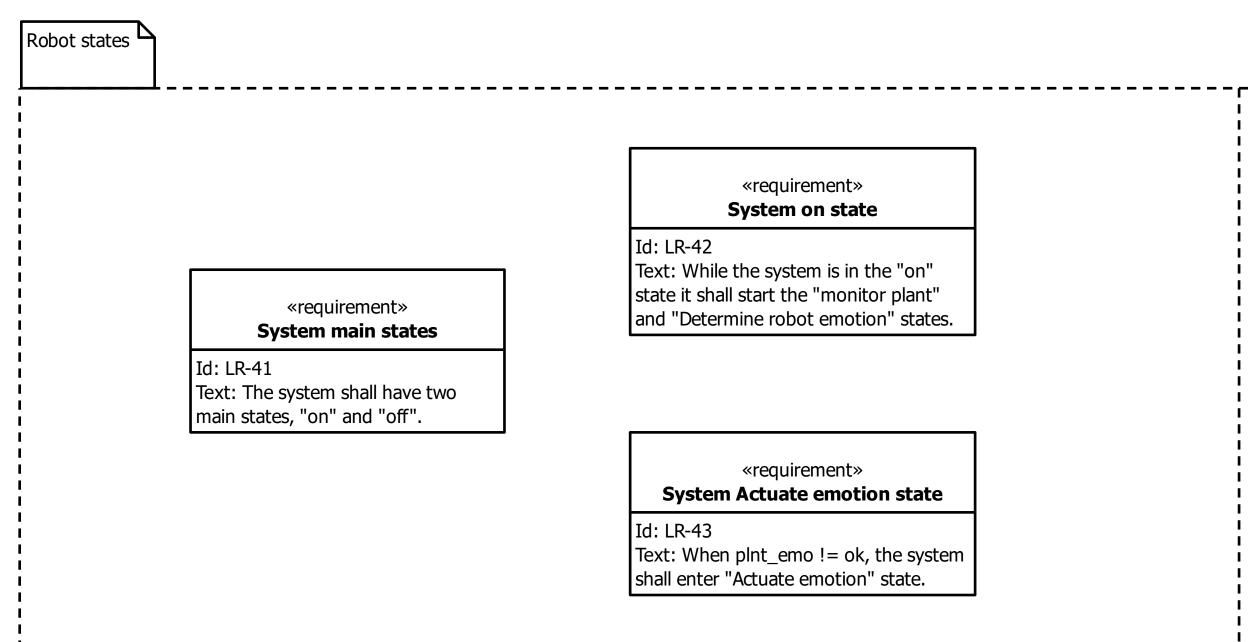
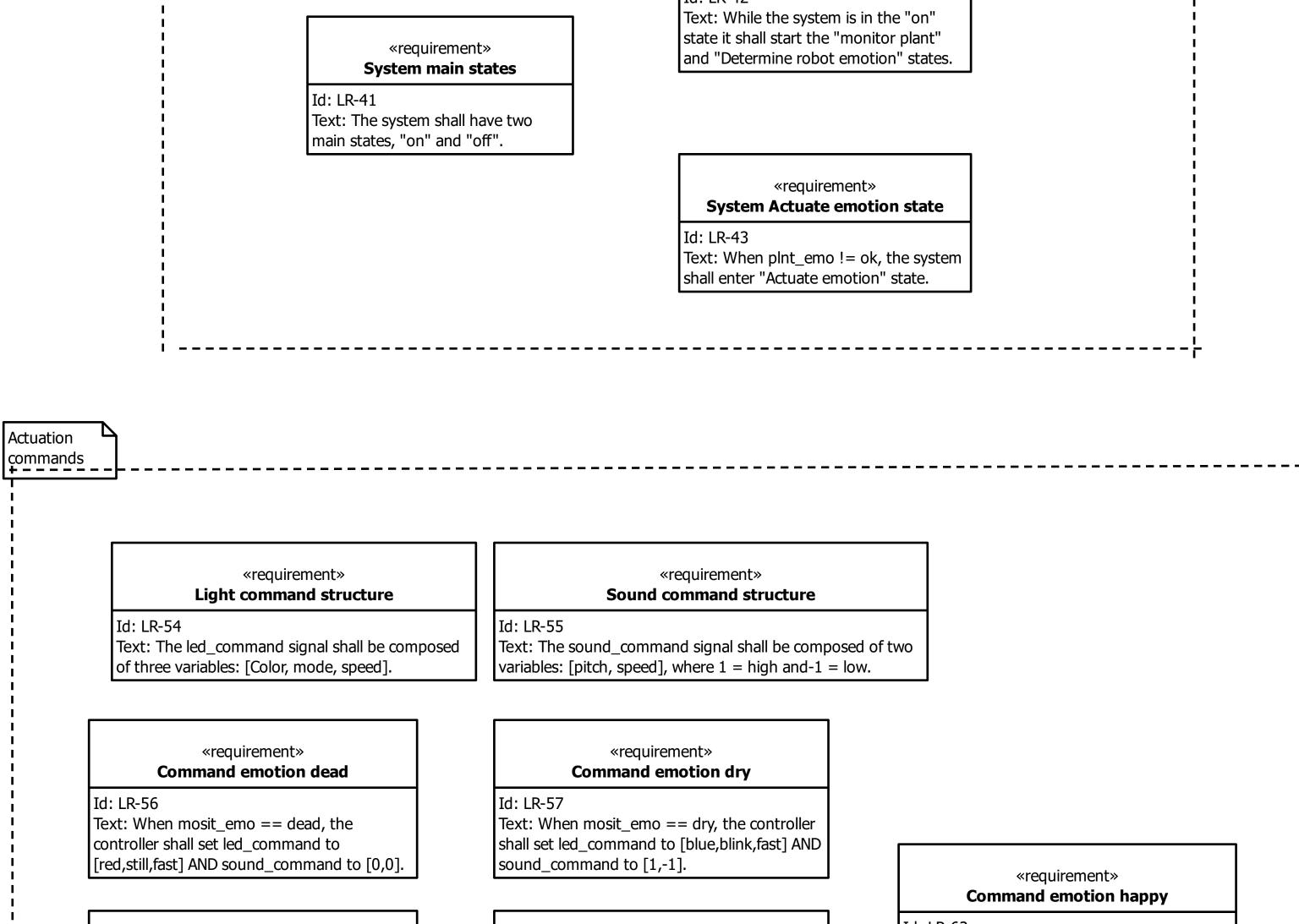
req [package] Requirements [Logical Requirements]









«requirement»

Command emotion cold

Text: When temp_emo == cold AND

led_command to [blue,still,fast] AND

sound_command to [1,1].

sound_command to [-1,-1]

moist_emo == ok, the controller shall set

«requirement» **Command emotion tired**

Text: When light_emo == tired AND temp_emo

shall set led_command to [green,blink,fast] AND

== ok AND moist_emo == ok, the controller

Id: LR-59

Id: LR-61

Text: When light_emo == ok AND temp_emo

== ok AND moist emo == ok, the controller shall set led_command to [green,still,fast] AND

sound_command to [0,0].

«requirement»

Command emotion hot

«requirement»

Command emotion sad

Text: When light_emo == sad AND temp_emo

shall set led_command to [blue,blink,slow] AND

== ok AND moist_emo == ok, the controller

Text: When temp_emo == hot AND

led_command to [red,blink,fast] AND

sound_command to [-1,-1].

sound_command to [1,1].

moist_emo == ok, the controller shall set

Id: LR-58

Id: LR-60

Functionality «requirement» «requirement» «requirement» «requirement» **Temperature Sensing Moisture Sensing** Light Sensing Temperature treshold configuration Id: LR-08 Id: LR-09 Id: LR-10 Text: The System shall periodically Id: LR-11 Text: The System shall periodically Text: The System shall periodically measure the intensity of light reaching measure the plant temperature measure the plant's soil moisture Text: The system shall allow the user the plant using the light sensor. using the temperature sensor. using the moisture sensor. to configure the temperature treshold. «requirement» «requirement» «requirement» Moisture treshold configuration **Controller sensor data Show plant information** Internal DataBase Id: LR-13 Id: LR-14 Id: LR-15 Id: LR-12 Text: The controller shall send the Text: The system shall allow the user Text: The System shall store the Text: The controller shall receive the sensor data to process the measured data locally in an plant status information to the GUI. to configure the moisture treshold. information. internal database «requirement» «requirement» «requirement» Actuator light configuration Measure Frequency configuration Light treshold configuration **Actuator volume** configuration Id: LR-18 Id: LR-19 Id: LR-17 Text: The system shall allow the Text: The system shall allow the user Text: The system shall allow the user Id: LR-16 Text: The system shall allow the user to configure the actuator to configure the sensor measure to configure the light intesnsity user to configure the actuator light intensity. frequency. audio volume.

