MBSE Description of the Portable Coin Recognition System in SysML

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req PCRSRequirements

«requirement»
Performance

id = "1"

«requirement»
Accuracy

id = "1.1"
text = "Coins in the photo must be recognized with 90% accuracy or better."

«requirement»
Response Time

id = "1.2"
text = "Message must be output within a few seconds of pressing the button."

«requirement»
Portability

id = "2"

«requirement»
Size

id = "2.1"
text = "Device package must be small enough to fit comfortably in a pocket."

«requirement»
Weight

id = "2.2"
text = "Device must be light enough to be handled and carried comfortably."

«requirement»
Battery Life

id = "2.3"
text = "Battery must charge within 15min and last last for over 8hrs of regular usage."

User: Actor1

«block»
Speaker

«block»
Button

«block»
SoC

«block»
Camera

sd activate

1 : Push

2 : InterruptSignal

3 : PhotoRequest

4 : Photo

5 : Recognition

alt Recognized Coins?

6 : SumAudio

7 : SumReadout

8 : ErrorAudio

9 : ErrorReadout