Tutorial: Use-cases of an Elevator Controller

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In this tutorial, we will describe the use-case model of an elevator controller. First, read the document "Case-study" to get an overview of the elevator controller. Afterwards, do the following exercises.

– Basic use-case model

Objectives:

- Analyze a textual specification of a system and describe a use-case model conform to the specification
- Identify actors, use-cases, and relationships

Exercises:

1. Specify the actors who will interact with the system and the system border. Justify your answers (e.g. by quoting the document).
2. Specify the use-cases of the system. Justify your answers.
3. Specify relationships between elements (actors and use-cases) of the model. Justify your answers.
4. Transpose your model into Papyrus

– Description of use-cases

Objectives:

- Understand that a use-case must also be described textually
- Learn how to describe a use-case

Exercise:

One of the use-cases is "UC1: Turn elevator system ON". Complete its textual description with the following template. As a bonus exercise, you may describe textually every use-case you modeled previously.

Goal:	Operator turns on elevator system
Pre-conditions:	
Post-conditions:	
Event:	
System:	Elevator Controller (EC)
Actors:	
Overview:	Description of EC start-up sequence
Process Description:	
Alternatives:	