Requirements Engineering
Bonus Task

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Deadline: 20.01.2025 – 1:59 PM

Submission location: Moodle Course Page → Bonus task

Task(s):

Submission guidlines:

- Please upload only **ONE** pdf file **ONLY**.
- The task is only mandatory for students who **MISSED** an exercise, but other students can also submit this assignment if they are interested.
- Please review your submission once you have uploaded all files and then click the Submit button.

Scenario:

You are tasked with the development of an E-Scooter ride-share system. It allows registered commuters to approach an idle E-Scooter and reserve it, following which they use the E-Scooter to commute a certain distance (that is not known prior to use). Finally, after the commuter reaches their destination, they end the ride, which prompts an automatic computation of the ride fees, which is automatically debited using the commuters registered payment details.

Task(s):

1. Design a *complete* textual requirements specification for the E-Scooter ride-share system using syntactic requirements patterns.

2. Identify the Actors and Use Cases in the above scenario. Also, Create a UML Use-case diagram to represent the interactions between the Actors and the System.

3. Create UML State Diagram for the given scenario of an E-Scooter ride-share system by Identifying the States and Transitions. Use UML State diagram symbols to represent the states and draw connections between them to illustrate the state transitions.

Questions? → <u>etce-re@tu-clausthal.de</u>
We will ignore all emails to our private email accounts!