

# ETCE / IoT-Mining SS24

## Exercise – 04

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**Deadline:** 10.06.2024 – 1:59pm

You must design a simple IoT system for monitoring and controlling energy consumption in a home. The system should provide recommendations for energy efficiency improvements.

### **Task(1):**

It would help if you started by researching which types of appliances in a home consume the most energy.

### **Task(2):**

After identifying the high-energy-consuming appliances, you need to design a model of their monitoring system using design software like UML or any other modelling software.

### **Task(3):**

You should write a scenario demonstrating how their system can reduce energy consumption during different times of the day, especially during peak usage hours.

**Questions?:** [etce-iot@tu-clausthal.de](mailto:etce-iot@tu-clausthal.de)