

Toegepaste Informatica

2TX

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**UCLL**  
HOGESCHOOL



Full-stack software development

Project Deadline 1: Project Analysis

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# Deadline 1: Project analysis

- Functional requirements
  - Project Description
  - User Stories
  - Domain Model
  - Conceptual & Logical Database Model
- Commit these documents to your GitHub repository
  - In a folder **analysis**
  - In PDF-format

# Project description

- Pitch your project:
  - Give it a title
  - Describe it in 1 paragraph
- Example:

**Title:** Whatt

**Description:** With the Whatt app we want users to be able to register and to keep track of the different energy consumers in their house. Users can add counters for several devices and frequently update the latest meter readings. For each counter, a monthly overview will be generated.

# User Story

- For each story identified in the story mapping you write a user story containing:
  - A sentence in the form
    - As a ...
    - I'm able to ...
    - So that I can ...
  - A wireframe
  - The acceptance criteria

## STORY - OVERVIEW COUNTERS

As a user

I'm able to get a list of counters

so that I can see which counters there are

## WIREFRAME

WHAT - API

COUNTERS

NAME	UNIT	
electricity counter	kwh	<div>METRICS</div>
gas counter	m <sup>3</sup>	

## ACCEPTANCE CRITERIA

- A list of counters with their unit are displayed.
- If there are metrics for a counter, a button is showed beside the specific counter.
- When there are no counters, display "No counters exist".

## STORY - OVERVIEW METRICS OF A COUNTER

As a user

I'm able to get a list of all metrics of a counter

so that I can see which metrics are done for that specific counter

## WIREFRAME

WHATT - API

COUNTERS

NAME	UNIT	
electricity counter	kwh	Metrics
gas counter	m <sup>3</sup>	

14-09-2023	38.72 kwh
15-09-2023	42.45 kwh

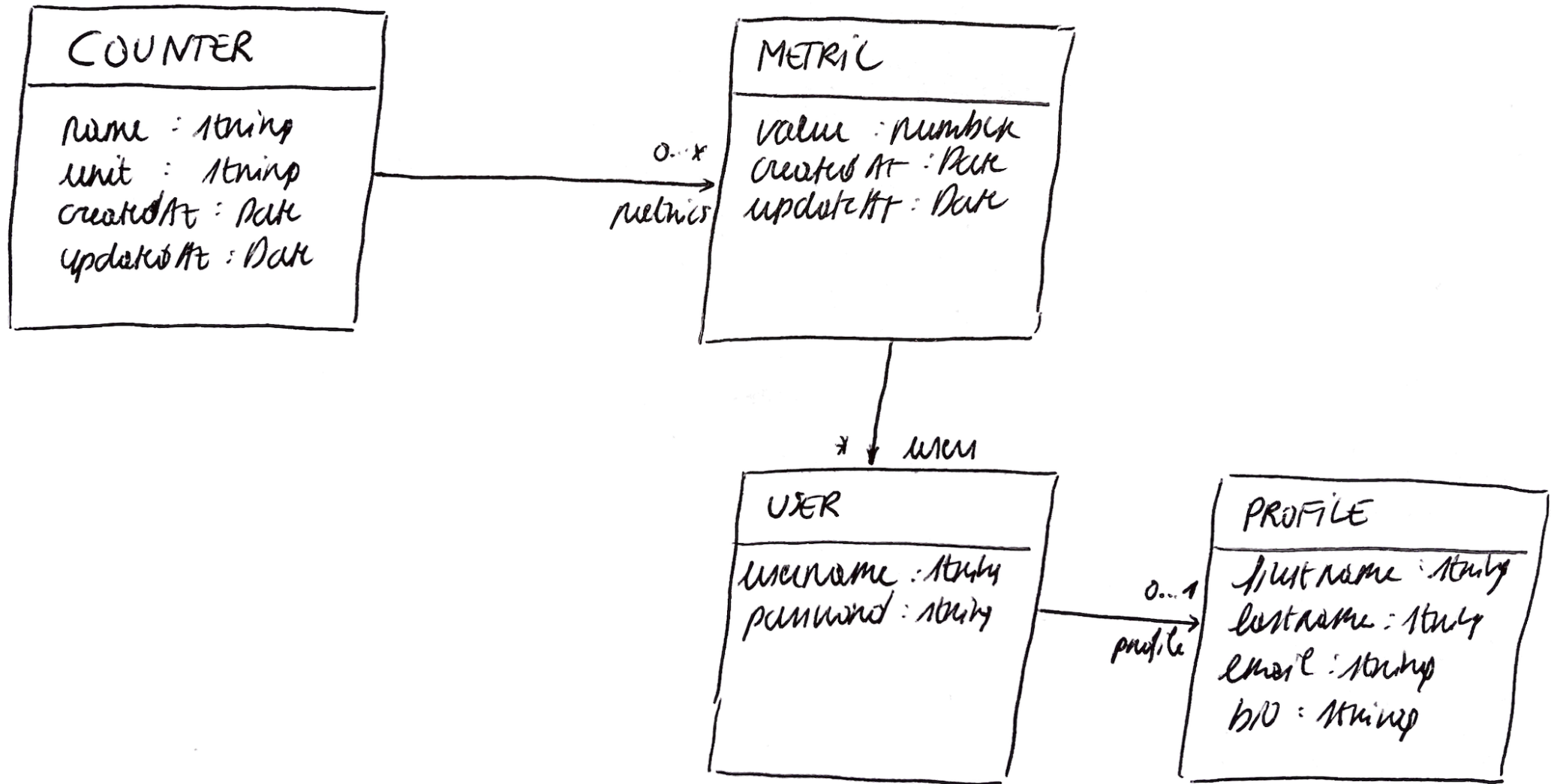
## ACCEPTANCE CRITERIA

- If you click on the button 'metrics' next to a counter, the list of metrics of that specific counter are displayed. The timestamp and the amount consumed is showed.

# Domain Model

*An object model of the domain that incorporates both behaviour and data  
[Martin Fowler]*

- Reflects our understanding of real-world entities and their relationships and responsibilities that cover the problem domain
- **Requirements:**
  - Your domain model needs to contain **at least 4 entities**.
  - Your domain model contains at least **1 one2many** and **1 many2many** relationship.

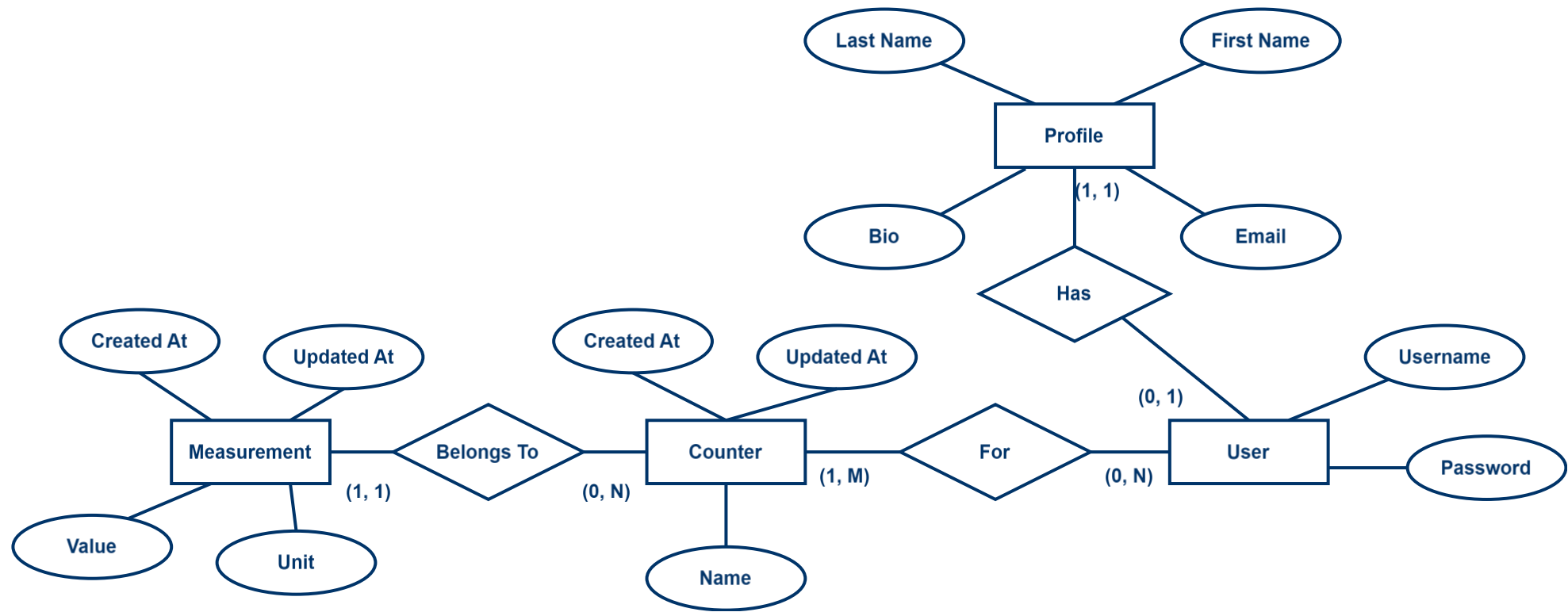




# Database Model

- Conceptual Model
  - Illustrates in what entity types we are interested in for storage
  - No notion of database technology
- Logical Model
  - Translation of the Conceptual Model to a relational database structure
  - No notion of RDBMS

# Conceptual Model



# Logical Model

