# Decibel Threshold Event Displayer

Interim Presentation

November 4, 2024

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Problem Solving

Scrum & Project Management

## **TEST**

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# Technology evaluation

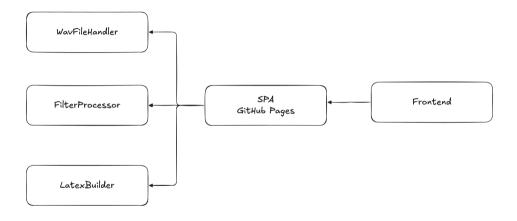
Option 1: Kotlin

Option 2: SwiftLaTeX (Web)

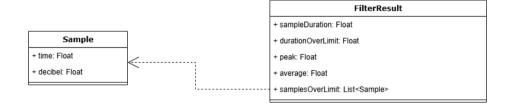
Technology	Total score
Kotlin minimal	74
Kotlin bundled	56
Web SwiftLaTeX	82

Table: Technology stack evaluation

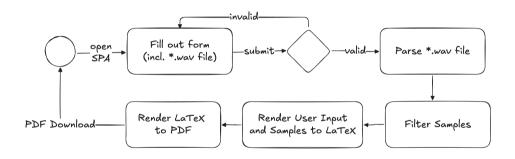
## Architecture



## Data Model

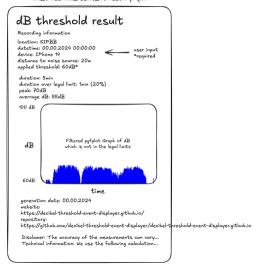


## Process Model



## UX Prototype - PDF Report

#### db\_threshold\_result\_<timestamp>.pdf



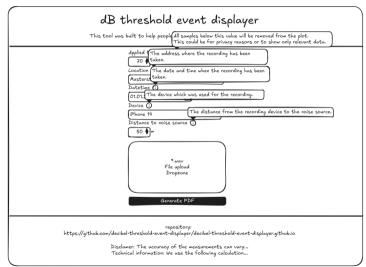
## UX Prototype - Website

https://decibel-threshold-event-displayer.github.io/

#### dB threshold event displayer This tool was built to help people to create evidence for noise pollution. Applied threshold\* (1) 70 dB Location (1) Musterstrasse 32, 3000 Bern Datetime (1) 01.01.2024 HH:MM:SS Device (1) Phone 14 Distance to noise source (1) 50 🛊 🛰 \*.wav File upload Dropzone Generate PDF https://github.com/decibel-threshold-event-displayer/decibel-threshold-event-displayer.github.jo Disclamer: The accuracy of the measurements can vary... Technical information: We use the following calculation...

## **UX Prototype - Website Tooltips**

https://decibel-threshold-event-displayer.github.io/



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## Scrum Roles



**Dr. Simon Kramer** Tutor & Stakeholder



**Lukas von Allmen** Scrum Master



**Dominic Gernert**Product Owner



**Darius Degel** Developer

## Backlog

- Epics ≈ Milestones
- Impediments
- Development Board

#### **Core Application**

&6 · created 3 weeks ago by Gernert Dominic



#### **Project Management, Report and Presentation**

&5 · created 3 weeks ago by Gernert Dominic



#### Visualization

&4 · created 3 weeks ago by Gernert Dominic



#### Input Handling and Processing

 $\& 3\cdot \text{created 3}$  weeks ago by Gernert Dominic

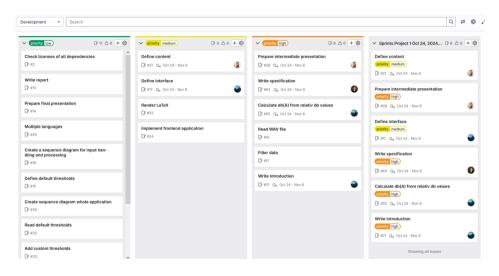


#### **Prototype**

&1  $\cdot$  created 3 weeks ago by Gernert Dominic



## Backlog



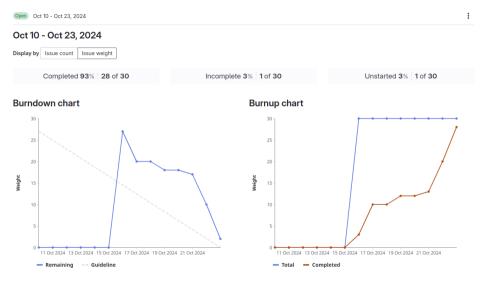
## **Sprint Goals**

- S.M.A.R.T
- Product Focus

#### Example

Prototypes with two different technologies are implemented and their pros and cons are evaluated.

## Review & Retro



## Review & Retro

#### Review

- Demo
- Done / Not Done
- Goal Attainment

#### Retro

- What went well?
- What problems did we encounter?
- What are we improving in the future?

## Adaptations

- Product Owner
- Daily Standup
- No Release Plan
- Retro
  - Shorter first Retro
  - Successes, Problems, Improvements