Getting the hang of it
sprint 2

19/05/2023

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[19-05-2023 / s02d01]
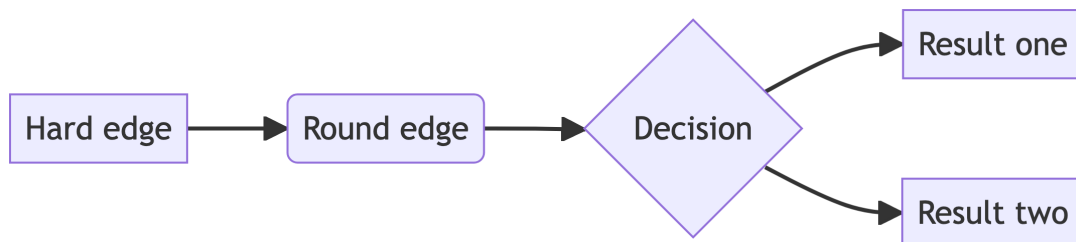
Objective for this second sprint:

- Description of finding labels for literature
- Description of Design Science (prof Twente youtube die ook op seminar in Amsterdam was)
- Description of DMAIC method, selectie projecten
- Description of Python Measurement tool

Furhtermore I want to go back to sprint 1 to "fix things". Specifically, I want to:

- take out some ideas and put these in a backlog (separate file).
- improve the structure sucht that the sprint is more around the topic "100 papers" (even if I selected only 25)

Already the above seems like a lot for a 14 day sprint. Let's see where we'll get …

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Use structurizer

#	Article	GSReferences in	Published	Journal Score	Principal Author	H-Factor

[21-05-2023 / s02d02] Small LLM to ...

semantically query papers in the research database. For example see:

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- Dominik Weckmüller [Semantic Search with Qdrant, Hugging Face, SentenceTransformers and transformers.js](#)

[20-05-2023 / day02] Authors Index

[21-05-2023 / day03] Methodology

The paper recommended to my by email (per her email of): *Design Science in Information Systems Research* (Hevner et al. 2004). Indeed, in this write-up there are several papers where the Design Science method is applied (Shafagatova and Van Looy 2021), ... (to be continued).

Exemplars and criteria for applicable design science research (special issue 2018 of the EJIS)

- also check: Christian Sonnenberg

(Cook and Sonnenberg 2014)

[22-05-2023 / day04] Search strategy

Lets describe the search strategy

- one

[25-05-2024 / day07] Lean Six Sigma

DMAIC

Voorbeeld

- to be excluded in pdf
- to be included in pdf

R

```r
fizz_buzz <- function(fbnums = 1:50) {
  output <- dplyr::case_when(
    fbnums %% 15 == 0 ~ "FizzBuzz",
    fbnums %% 3 == 0 ~ "Fizz",
    fbnums %% 5 == 0 ~ "Buzz",
    TRUE ~ as.character(fbnums)
  )
  print(output)
}
```

Python

```python
def fizz_buzz(num):
  if num % 15 == 0:
    print("FizzBuzz")
  elif num % 5 == 0:
    print("Buzz")
  elif num % 3 == 0:
    print("Fizz")
  else:
    print(num)
```

[27-05-2024 / day9] Toepassing voor GeoPandas?

Bestand met locaties van universiteiten?

[28-05-2023 / day10] Examples of Design Science

Design Science in Information System Research (Hevner et al. 2004) written by Hevner et al.

Getting Personal: A Deep Learning Artifact for Text-based Measurement of Personality

[29-05-2023 / day11] Process Modelling

(Mendling, Reijers, and van der Aalst 2010) written by

(Li 2010)

(Vicente-Saez and Martinez-Fuentes 2018)

Cook, Catherine W, and Christian Sonnenberg. 2014. "Technology and Online Education: Models for Change." *Contemporary Issues in Education Research (CIER)* 7 (3): 171–88.

Hevner, Alan R., Salvatore T. March, Jinsoo Park, and Sudha Ram. 2004. "Design Science in Information Systems Research." Journal {{Article}}. *MIS Quarterly*, 75–105.

Li, Feng. 2010. "Textual Analysis of Corporate Disclosures: A Survey of the Literature." *Journal of Accounting Literature* 29: 143–65.

Mendling, J., H. A. Reijers, and W. M. P. van der Aalst. 2010. "Seven Process Modeling Guidelines (7PMG)." *Information and Software Technology* 52 (2): 127–36. https://doi.org/10.1016/j.infsof.2009.08.004.

Shafagatova, Aygun, and Amy Van Looy. 2021. "Developing a Tool for Process-Oriented Appraisals and Rewards: Design Science Research." *Journal of Software: Evolution and Process* 33 (3): e2321.

Vicente-Saez, Ruben, and Clara Martinez-Fuentes. 2018. "Open Science Now: A Systematic Literature Review for an Integrated Definition." *Journal of Business Research* 88: 428–36. https://doi.org/10.1016/j.jbusres.2017.12.043.