# The Crosswords - 3 Letter

$\mathcal{K}$	$\mathcal{R}$	О
Ĺ	Æ	S
Ø	$\gamma$	$\mathcal{E}$

# Words

# $\mathcal{DATA}$ :

The associated files 3Letter Words.\* are identical in content. They do only vary in their format.

The files contain a lot of "words" of 3 letters. It is upper- as well as lower-case letters and special characters.

## **EXERCISE**:

Do a full UP process on the project incl. diagrams.

o:

Modulopgave II

Dat18C Marts 2019

Create database tables for the words and import the words into the database table

#### *I*:

Design and implement a Java program, which can:

- a) read in these words from the database into Java ADT (set, map, list)
- b) filter them to a standard (e.g. no special chars, all lowercase, ...)
- c) write to new file so they are unique and easy to search in. You are welcome to include further information.

### II:

Design and implement a Java program, which use the result file from I: to find 3 letters cross word puzzles, where each letter is unique.

The implementation can make the most use of Java different data structures e.g. from the Collection classes.

## III:

Modulopgave II

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Repeat II: but this time, with class(es) made by you through inheritance.

That is - rethink your solution from II and extract which services YOU want from this/these new class(es).

### $I\mathcal{V}$ :

How many different crosswords is your program capable of creating?

How much time does it take?

# DATABASE Optimization:

Consider optimization of the algorithm:

How could the word list be split into several tables to minimize the number of combinations to try?