# Project

"BrainWasher – a mathematical Quiz"

Note: correction & additions since last version are marked in Red inside this document.

#### Process:

From a mobile app, the user will configure any number of structured mathematical quizz'es, which will be saved on a cloud fileshare.

The quizzes will be uploaded from the fileshare to a facebook page by a Media Specialist.

A function on the app, will generate the quizz content which will be returned as a matrix. The matrix will be published by the app as a formatted .png file, based on the configuration in the app.

#### App environment:

- 1. The app is for internal use by employees of the company. Therefore It should be available for IOS only, as we all use Iphones.
- 2. We will develop a function to provide quiz numbers for the quiz. We prefer to do this in Python. So in fact we will deliver the function to you.
- 3. Programming languages can be: .net, c# or python free choice. What is the optimum solution for this app? But the function should then be developed in the same language?
- 4. Please note that we can fill in a Retention period in the form on the next slide.
  - We did not provide any functionality for this input field. Here is how this should be treated:
  - Each time the app form is run, you should check the dates in the files names of the .png files, e.g. "2021-12-01\_01p" If this date is older than todays date minus the retention period, it should be deleted.
  - Example: Filename: "2020-12-01\_01p". Retention period: 365 days.
  - So when the app is run on  $2022-1\overline{2}-01$  or later, this file will be deleted from the fileshare.

#### App fields:

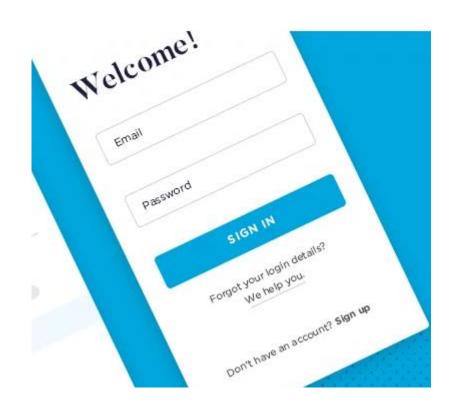
Input: A form containing the following inputs:

- 1. Quizz type: Sequential (s) or Progression (p) (drop down)
- 2. No. of Artifacts, default = 5 , Maxmum = 100
  Naming: <date> <versionNumber><quizType> e.g. "20211211\_01p"
  Each new day, the version number will be reset to "01"
- 3. Level of difficulty: Green Blue Red default: "Blue"
- 4. Background image: Solid (s) or Image (i)
  Choose file:<abc.jpeg> default: defaultimage.jpg
  Solid Background color;<color> (choose color from palette), default = Blue
- 5. Background transparency (0-100%), default = 0%
- 6. Font name, default = Ariel (Font drop down box)
- 7. Font color, default = White (Choose color from palette)
- 8. Font size, default = 25
- 9. Bold (Y/N), default = N
- 10. Minimum retention period = 270, default=270
- 11. Path / url to fileshare, default = https://...

Buttons : Generate Cancel Exit

Warning: "Are you sure you want to generate 5 Artifacts?" Yes No , default = Yes Return message: "5 Artifacts sucessfully generated"

## App form layout



The form should be designed in a modern way like shown, e.g. with help texts within each field etc.

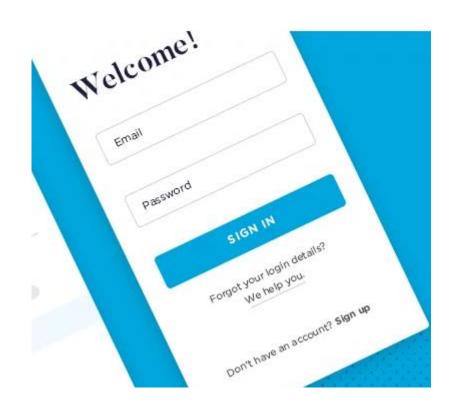
### App form layout

Brain Washer

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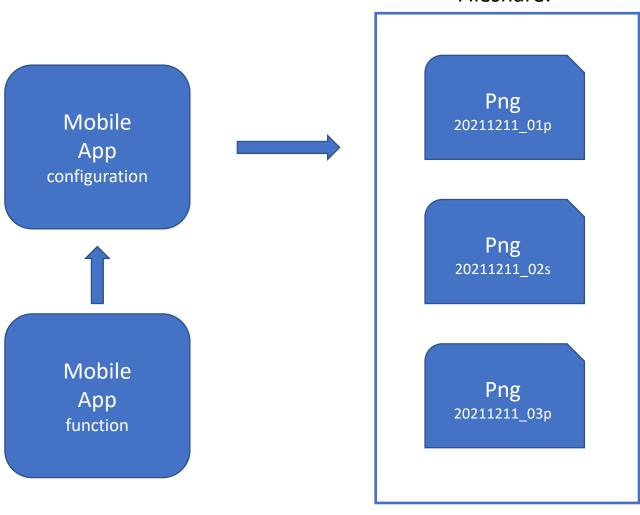
When the app is opened, the logo in flashed, then the form (see net slide) is started.

## App form layout



The form should be designed in a modern way like shown, e.g. with help texts within each field etc.

#### Fileshare:



Facebook

Output: Progression quizz

Background color & transparency

Font name, size & color (Bold or Normal)

