Technical (Equipment)

Equipment

folder -> equipment ->

Performance

Plaatjes

Plaatjes staan in Amazon Cloud en zijn 200kb tot 500kb.

No Cache, no optimazation

Het laden van 5 items duurt 1 tot 2.5 seconden afhankelijk van de grootte van de plaatjes.

Async laden plaatjes

Laadtijden per 5 items tussen de 0.6 en 1.2 seconden zijn.

Plaatjes kleiner maken (optimized for web)

Het laden van 5 items duurt 2 ms.. 200 to 500 maal sneller.

API Call optimization

API calls naar rentman kosten gemiddeld 120 ms per call (dat is snel); voor elk item heb je wel 3 call nodig (item data, plaatje data, calender data).
Dat is dus 360 ms per item.

Via cache is dat < 1 ms.

Mogleijk optimalisatie is parrallel async verwerking.

Implementation
all getc api calls are cached. The cache has a predefiend TTL $cache_ttl = 3600
the raw return value of the API is json encoded written to file.

There is code to delete all the cache (not tested yet)

Rerender plaatje sop server

Let op dat de GD library op de server actief moet zijn.

Amazon picture load

TLS Handshake and Connection Setup: 100 ms
s3-eu-west-1.amazonaws.com - ping time 27 ms
server processing - 10 ms
Network tranfer speed 0.8 sec/KB

Cache of rentman API

all getc api calls are cached. The cache has a predefiend TTL $cache_ttl = 3600
the raw return value of the API is json encoded written to file.
There is code to delete all the cache (not tested yet)

Images cache

Images are cached as images (binaries) and are re-rendered at a lower resolution.
Images are cached under the name [equipment-id]-[image-modified].jpg
When equipment ids are not valid any more, there could be orphan images in the cache.

When the image is updated for an exisitng equipment id, there will be two files with the same equipment-id,
the one with the lowest image-modified timestamp can be deleted.
There is no code for this yet.

Performance test

- Orginele laadtijd: 5,4 seconden (1.8 MB plaatjes)
- Img cache v no cache 2600/3500 ms - 2 ms
- API call cache v no cache: 1700 ms - 2 ms
- na cache plaatjes/ api calls 2 ms

Rechten op directory (Ubuntu)

```
// create new group
sudo groupadd shared-www


// add users to group
```

```
sudo usermod -aG shared-www www-data
sudo usermod -aG shared-www max

// set shared group as owner
sudo chown -R :shared-www /path/to/shared-directory
sudo chmod -R 770 /path/to/shared-directory

// Ensure that any new files or directories created inside the shared directory inherit the group ownership of shared-group.
sudo chmod g+s /path/to/shared-directory
```

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