

BACK TO THE 90s!



HW & W

MIX
11

Yves Goeleven



Solution Architect & Azure MVP

This means I'm
old & develop
software

- Particular Software / NServiceBus
- Side projects
 - MessageHandler: Event stream processing & event sourcing framework
 - Dish: Static site generator
 - ClubManagement.io: Progressive Web Apps for managing sports clubs
- Azure MVP since 2010
- Co-founder & board member @ AZUG.be
- Board member @ Basket Lummen

Welcome to Microsoft's World Wide Web Server!

Where do you want to go today?

If your browser doesn't support images, we have a [text](#) menu as well.



Microsoft[®]

[Knowledge Base](#)

[Send us your feedback](#)

[Windows News](#)

[Back Office & Windows NT
Workstation](#)

[What's New](#)

[gopher.microsoft.com](#)

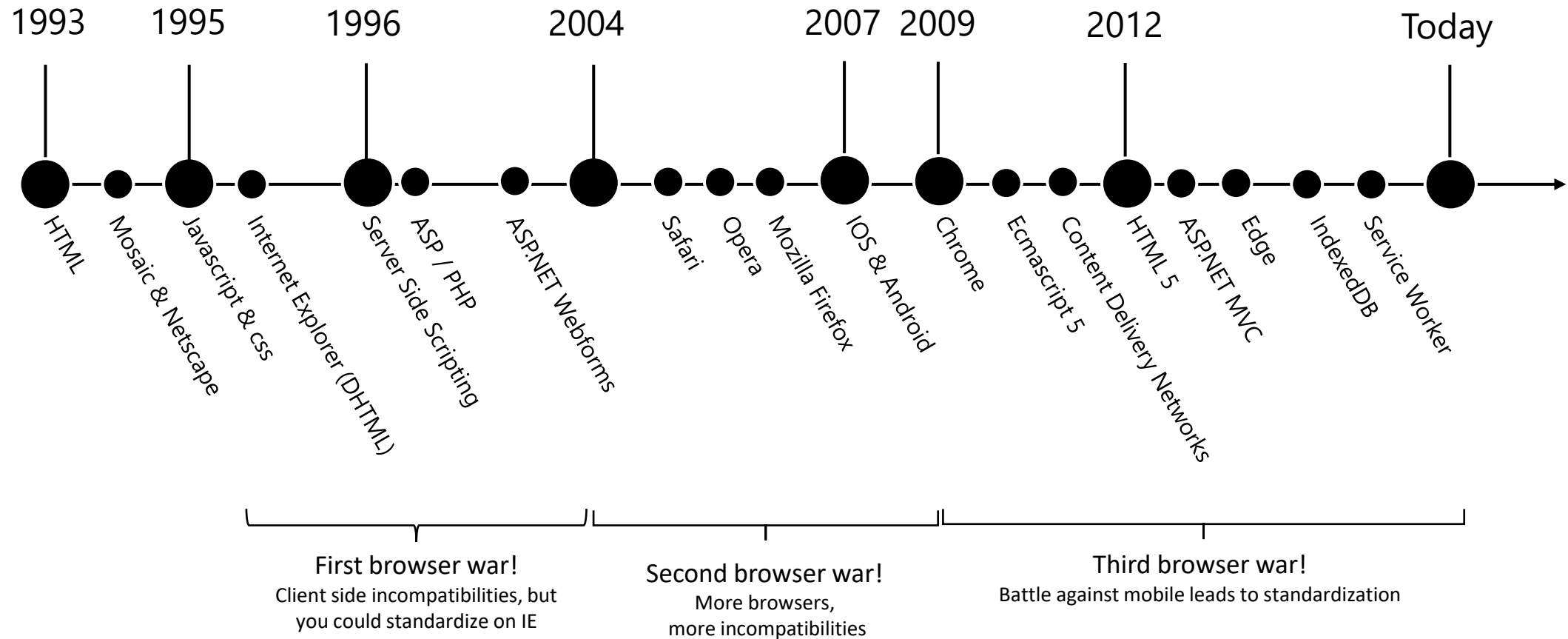
[ftp.microsoft.com](#)

[Microsoft techNet](#)

[Developer Network](#)

Web development

A brief history with major milestones



Revenge of the static website

Why?

3 reasons

- It's cheap!
- It's simple!
- Single codebase for any app (PWA)
 - Web, desktop & mobile apps!
 - Offline

The story of basketlummen.be

- Home
- Clubinfo
- Hot News
- Ploegen
- Fotoalbum
- Activiteiten
- Verjaardagen

Eetdag Basket Lummen

zondag 22 oktober

De Kalen Dries te Meldert
van 11 u. tot 14 u. en van 17 u. tot 20 u.

[Klik hier om uw bestelling door te geven](#)

Peanutstornooi

zaterdag 11 november

[Klik hier om in te schrijven](#)

✓ Vind ik leuk Jij en 1 d. anderen vinden dit leuk.



@basketlommen volgen

© 2000-2019
Johnny Peeters





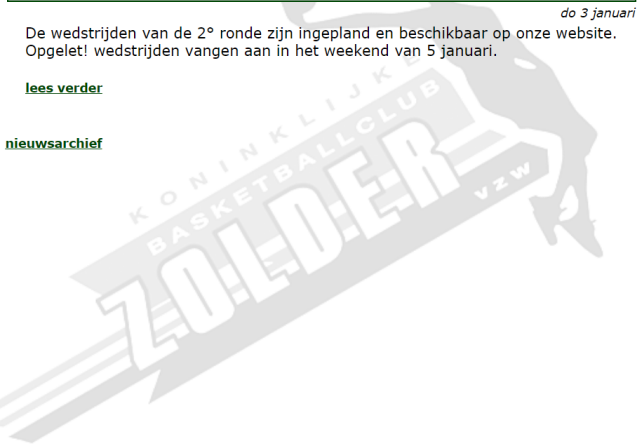
:: Wedstrijden 2° ronde jeugd ::

do 3 januari

De wedstrijden van de 2° ronde zijn ingepland en beschikbaar op onze website. Opgelet! wedstrijden vangen aan in het weekend van 5 januari.

[lees verder](#)

[nieuwsarchief](#)



Schrijf in op onze mailinglijst

E-mailadres

KBBC Zolder Official

Like Page 332 likes

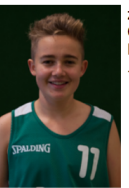


:: Verjaardagen ::

Jarigen deze week:



donderdag 23 mei
Valerie Geluykens
Dames
34 jaar



zaterdag 25 mei
Casper Van de Pol
D-ploeg
19 jaar



maandag 27 mei
Sophie Luyck
25 jaar



dinsdag 28 mei
Jean-Pierre De Roo
51 jaar

- ▶ **Nieuws**
- Ontvangen berichten
- Verzonden berichten
- Bericht plaatsen
- ▶ **Admin**
- Wachtwoord wijzigen
- Gebruikers
- ▶ **Wedstrijden**
- Overzicht
- ▶ **Hot News**
- Nieuws toevoegen
- Nieuws wijzigen
- ▶ **Activiteiten**
- Programma
- Opmerkingen
- Eetdag
- Peanuts
- Mosselfeest
- Stage
- Barbeque
- Ethias/Heizel
- ▶ **Wedstrijden**
- Uitslagen ingeven
- Uitslag wijzigen
- Kalender wijzigen
- Ploeg toevoegen
- Match toevoegen
- Tafelverdeling
- Verslag toevoegen
- ▶ **Varia**
- Onkosten
- Sporthalbezetting
- Ijstaarten
- Topschutters
- Gastenboek

Ontvangen berichten

[Licenties en medische attesten](#)

Beste,
Denken jullie er aan dat wij helpende handen nodig hebben op 10/11 voor het klaarzetten van de sporthal voor het peanutstornooi van 11/11.
We kunnen helaas pas om 23 uur in de sporthal.

Dominique.
geplaatst door Dominique Vanderheyden, 3/11/2017 16:01:01





The story of basketlummen.be

Cost
Model

Simple
Architecture

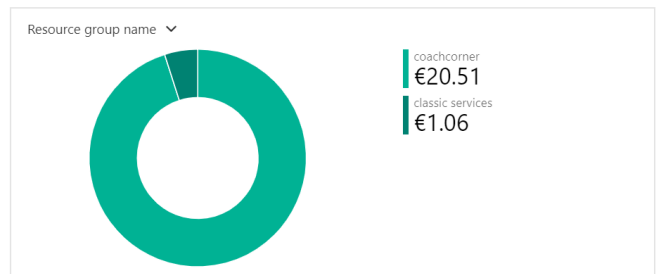
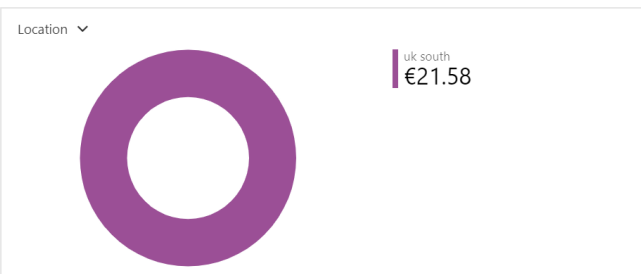
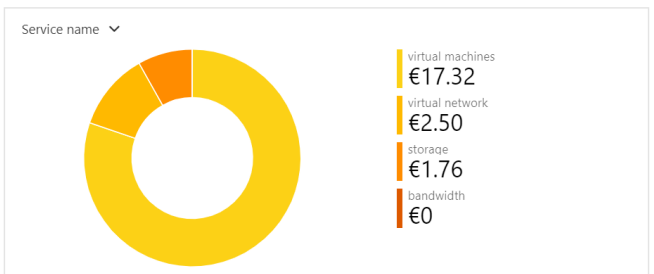
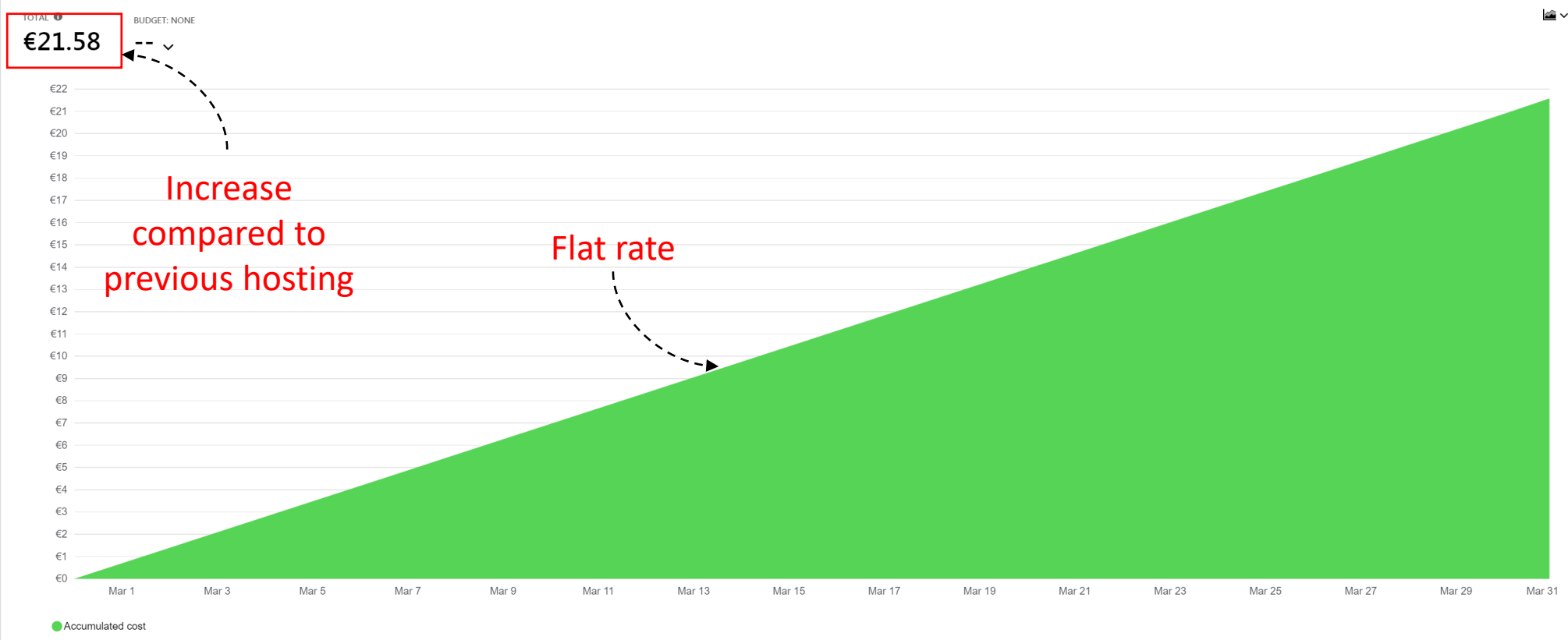
Offline App

Coachcorner - Cost analysis

Share Refresh Export Cost by resource

How satisfied are you with cost analysis? →

Scope: Coachcor... Custom view Mar 2019 Granularity: Accumulated Group by: None Add filter



- Create a resource
 - Home
 - Dashboard
 - All services
 - FAVORITES
 - Resource groups
 - All resources
 - Subscriptions
 - Monitor
 - Cost Management + Billing
 - Recent
 - App Service plans
 - App Services
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- Cost analysis
 - Budgets
 - Advisor recommendations
- Billing
- Invoices
 - External services
 - Payment methods
 - Partner information
- Settings
- Programmatic deployment
 - Resource groups
 - Resources
 - Usage + quotas
 - Policies
 - Management certificates
 - My permissions
 - Resource providers
 - Deployments
 - Properties
 - Resource locks
- Support + troubleshooting
- New support request



Dames A

Bekerfinalist Dames Nationaal

[Meer weten](#)



M16 A Lummen

Bekerfinalist M16

[Meer weten](#)

LIMBURGSE BEKERFINALES
10 - 11 - 12 MEI 2019



LIMBURGSE BEKERFINALES BASKETBAL 2019



Dames C

Bekerfinalist Dames Provinciaal

[Meer weten](#)



M19 A BT

Bekerfinalist M19

[Meer weten](#)



M16 A BT

Bekerfinalist M16

[Meer weten](#)



M14 A Lummen

Bekerfinalist M14

[Meer weten](#)

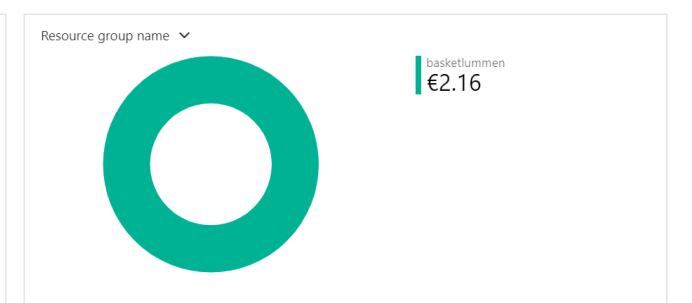
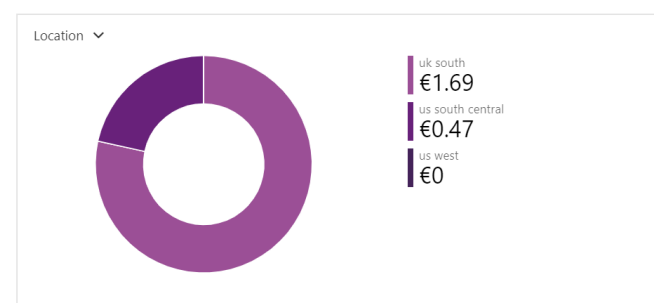
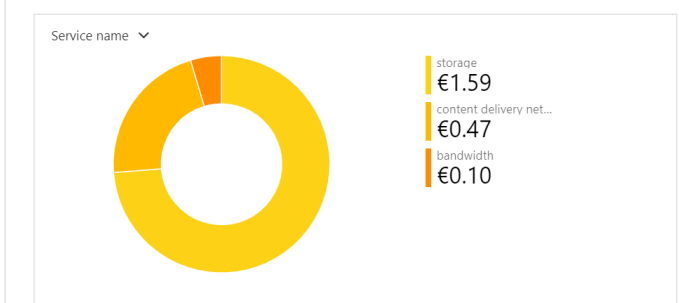
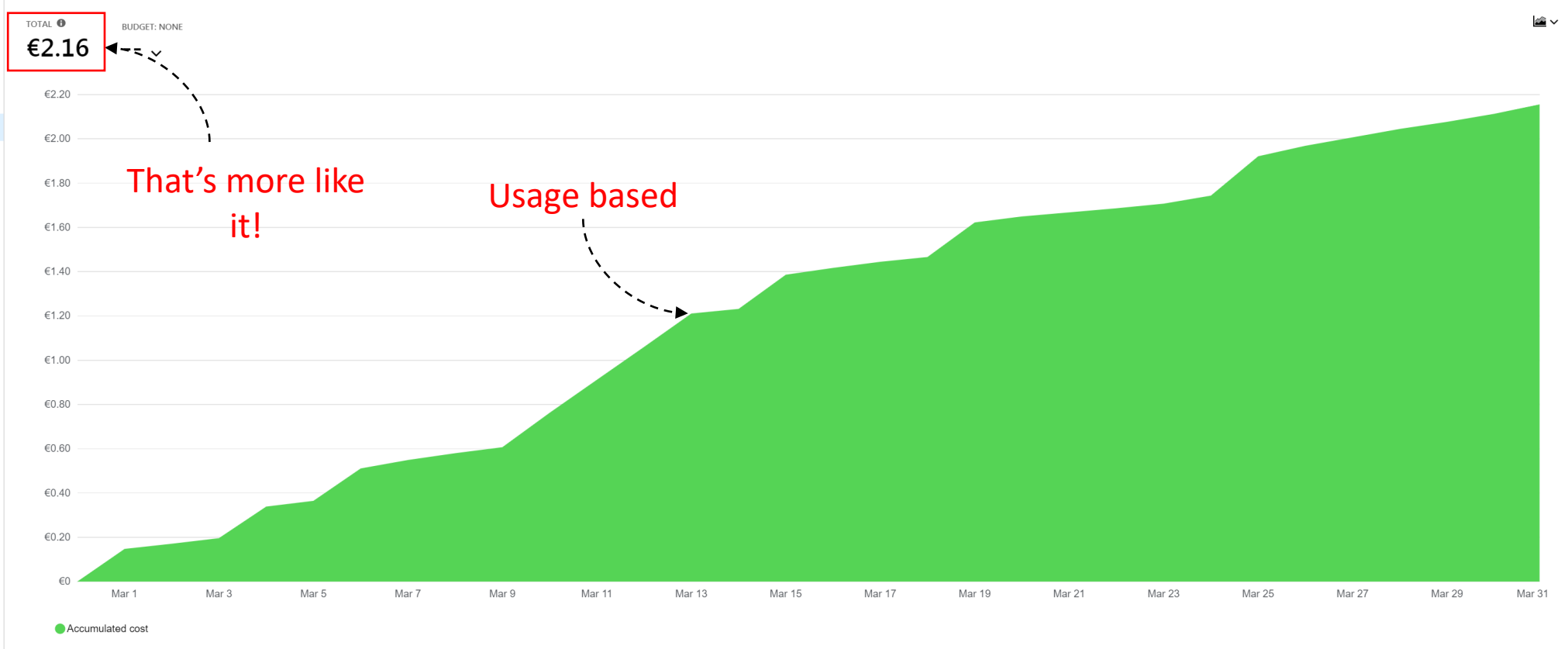
Volgende wedstrijd

zaterdag



- Overview
- Access control (IAM)
- Diagnose and solve problems
- Security
- Events
- Cost Management
 - Cost analysis
 - Budgets
 - Advisor recommendations
- Billing
 - Invoices
 - External services
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[Share](#) [Refresh](#) [Export](#) [Cost by resource](#)
 How satisfied are you with cost analysis? [→](#)
 Scope: **Goeleven...** Custom view [▼](#) **Mar 2019** Granularity: **Accumulated** Group by: **None** Resource group name: **basketlummen** [Add filter](#)



More value for less money

New site is a lot bigger than the old one

Old site	
100 Visitors / Month	200 MB Content
€ 250 / year	

New site	
1500 Visitors / Month	1.4 GB Content
€ 25 / year	

The story of basketlummen.be

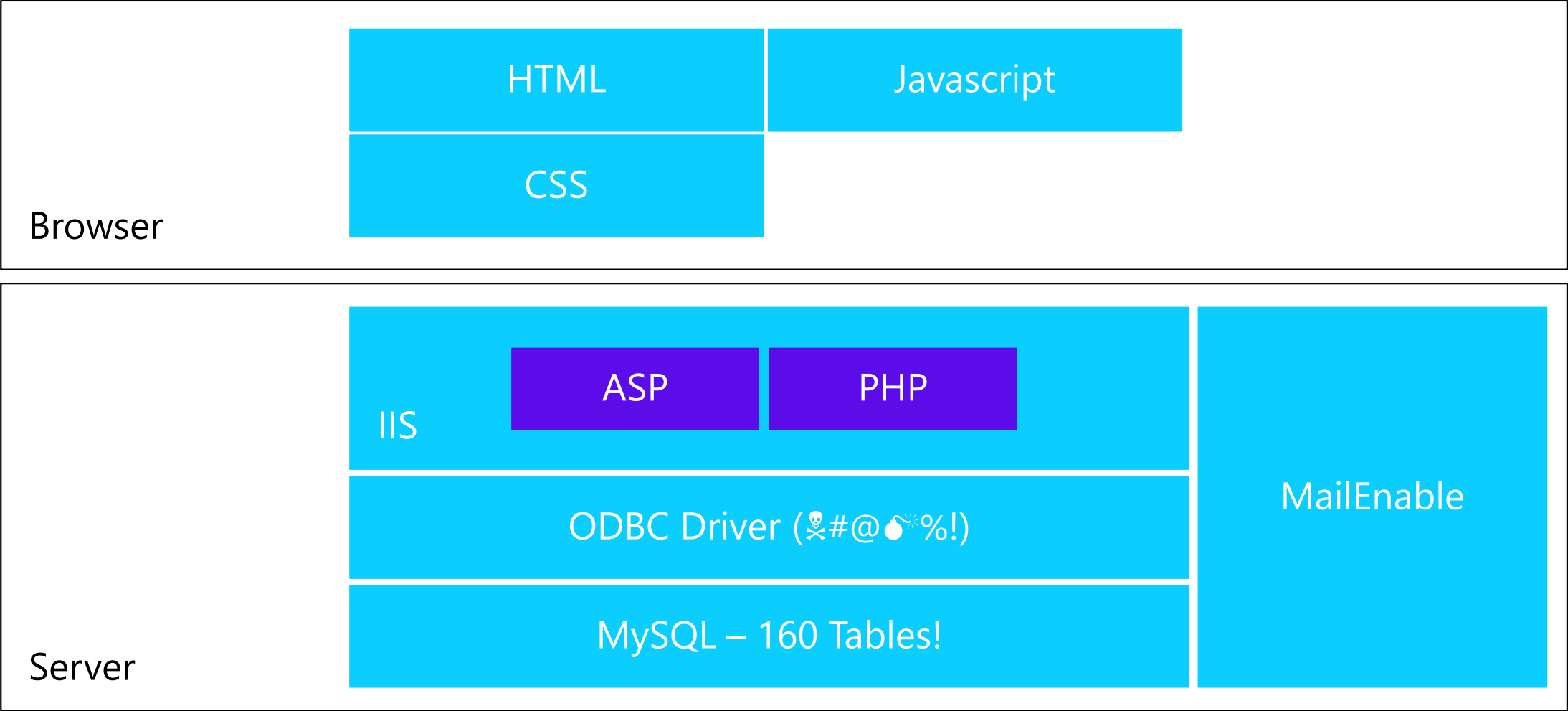
Cost
Model

Simple
Architecture

Offline App

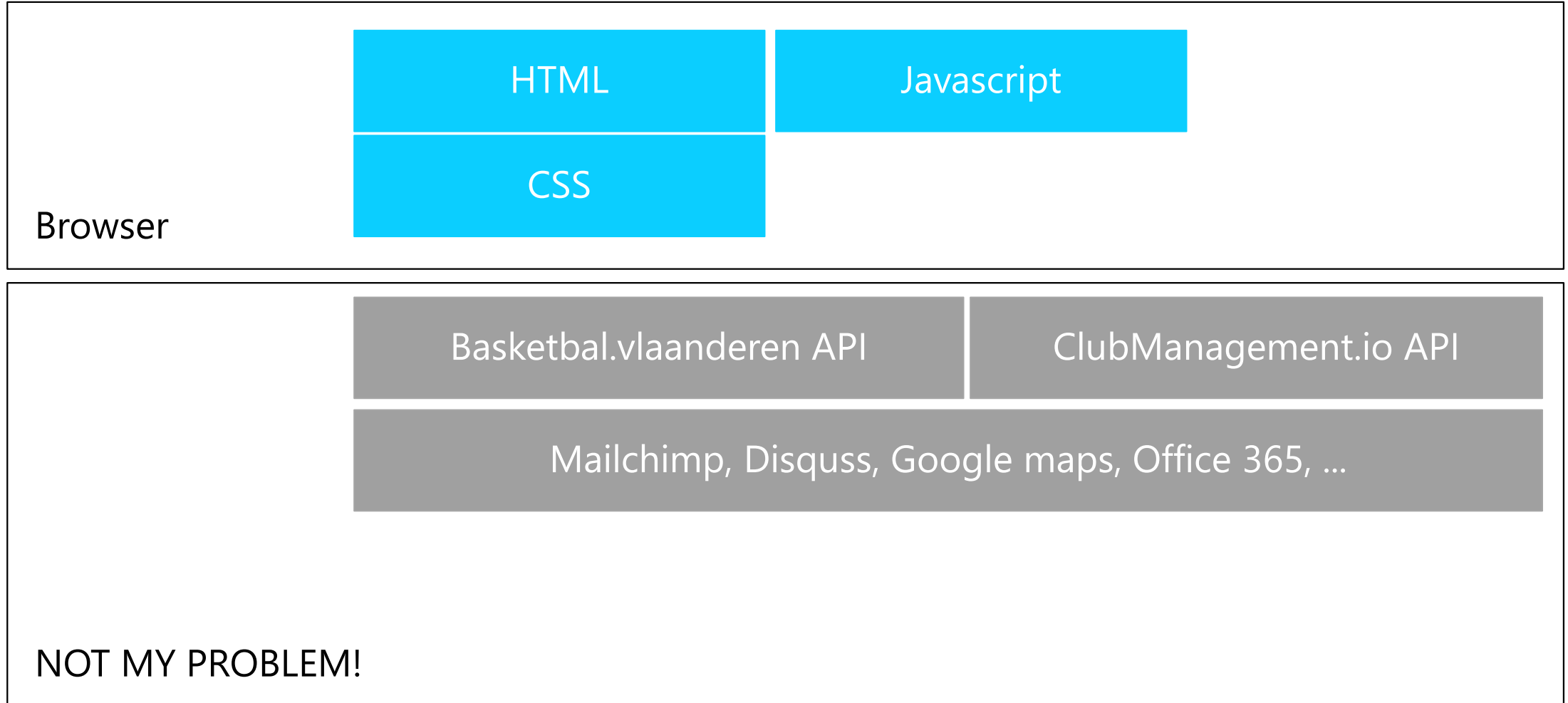
Old site

Architecture



New site

JAM Stack



The story of basketlummen.be

Cost
Model

Simple
Architecture

Offline App





Het is verboden te roken
in de zaal en ook op de
TOILETTEN!!
Pub & Wier Limburg

DRANKLETTELING	
1.10	1.10
1.20	1.20
1.30	1.30
1.40	1.40
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30.40	30.40
30.50	30.50

Doritos
POTES
FRITES

Bestellingen



Basket Lummen ▾

Dashboard

Leveringen

Reeds geleverde bestellingen

19

Te leveren bestellingen

3

Te leveren producten

3 stukken 0

2 stukken 0

Te leveren opties

Varkensbrochette 2

Scampi 2

Chipolata 1

Spiering 0

Kipfilet 0

Te leveren

Bestelling toevoegen ▾

Tester De Test

Besteld: 1x 3 stukken (Spiering, Chipolata, Scampi)

Geleverd:

Totaal: €18

Geplaatst: 17-4-2019 23:16:41

Leveren ▾

NVital

Besteld: 1x 3 stukken (Spiering, Varkensbrochette, Scampi)

Geleverd:

Totaal: €18

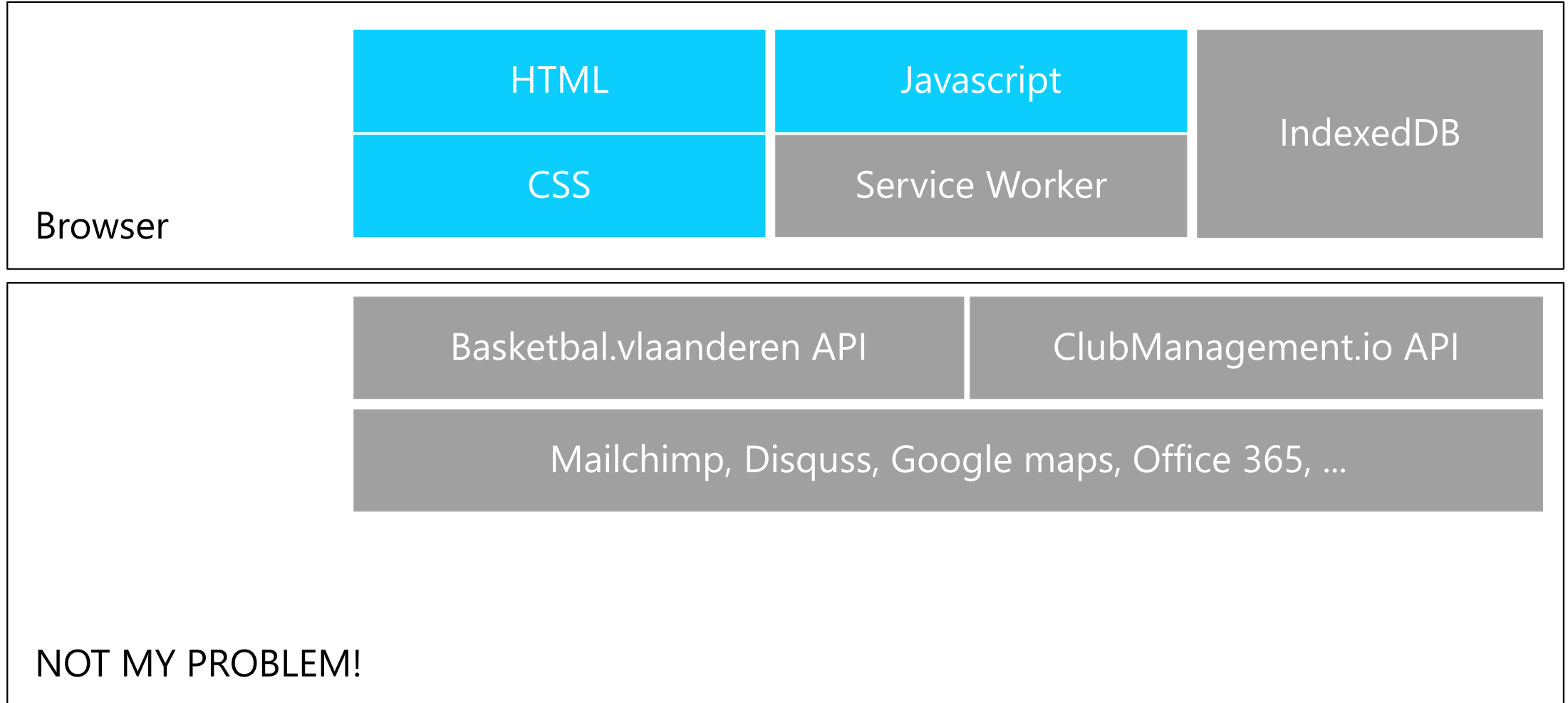
Geplaatst: 17-4-2019 23:19:16

Leveren ▾

Nog niet geleverd

New fundraising app

Progressive Web App



Setting up cheap hosting

Azure
Storage

Azure CDN

DNS

Save Discard

Configuring the blob service for static website hosting enables you to host static content in your storage account. Webpages may include static content and client-side scripts. Server-side scripting is not supported in Azure Storage. [Learn more](#)

Static website

An Azure Storage container has been created to host your static website.

[\\$web](#)

Primary endpoint ⓘ

Secondary endpoint ⓘ

Index document name ⓘ

Error document path ⓘ

Properties

Locks

Export template

Blob service

- Blobs
- Custom domain
- Soft delete
- Azure CDN
- Add Azure Search
- Lifecycle Management

File service

- Files

Table service

- Tables

Queue service

- Queues

Monitoring

- Alerts

Access control (IAM)

- Tags
- Diagnose and solve problems
- Events
- Storage Explorer (preview)

Settings

- Access keys
- Geo-replication
- CORS
- Configuration
- Encryption
- Shared access signature
- Firewalls and virtual networks
- Advanced Threat Protection

- Static website

- Create a resource
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- SQL databases
- Cloud services (classic)
- Search services
- IoT Hub
- Azure Cosmos DB
- Azure Active Directory
- Security Center
- Help + support
- Advisor
- Analysis Services

\$web

Container

Upload Refresh Change access level Delete Acquire lease Break lease View snapshots Create snapshot

Authentication method: Access key ([Switch to Azure AD User Account](#))
Location: \$web

Search blobs by prefix (case-sensitive) Show deleted blobs

NAME	MODIFIED	ACCESS TIER	BLOB TYPE	SIZE	LEASE STATE
fundraising					- ...
fundraisingcheckin					- ...

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- Search (Ctrl+F)
- Overview
 - Access Control (IAM)
 - Settings
 - Access policy
 - Properties
 - Metadata
 - Editor (preview)

Dashboard > clubmgmtappstest - Configuration

clubmgmtappstest - Configuration

Storage account

Save Discard

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Events
- Storage Explorer (preview)

Settings

- Access keys
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Blob service

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File service

- Files

Table service

- Tables

Queue service

- Queues

The cost of your storage account depends on the usage and the options you choose below.

[Learn more](#)

Account kind
StorageV2 (general purpose v2)

Performance ⓘ
 Standard Premium

* Secure transfer required ⓘ
 Disabled Enabled

Access tier (default) ⓘ
 Cool Hot

Replication ⓘ
Read-access geo-redundant storage (RA-GRS)

Azure Active Directory authentication for Azure Files (Preview) ⓘ
 Disabled Enabled

Data Lake Storage Gen2
Hierarchical namespace ⓘ
 Disabled Enabled

Required for service worker

Setting up cheap hosting

Azure
Storage

Azure CDN

DNS

Why CDN?

2 reasons

- FREE SSL for custom domain names!
- Reduce storage transaction costs
 - Ensure cache control headers are set on blobs!

* Origin type
Custom origin

* Origin hostname
clubmgmtappstest.z33.web.core.windows.net

Origin host header
clubmgmtappstest.z33.web.core.windows.net

Origin path
 /fundraisingcheckin

Protocol Origin port
 HTTP 80

HTTPS 443

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- Diagnose and solve problems
- Settings
- Origin
- Custom domains
- Compression
- Caching rules
- Geo-filtering
- Optimization
- Locks
- Export template
- Monitoring
- Diagnostics logs
- Support + troubleshooting
- New support request

Setting up cheap hosting

Azure
Storage

Azure CDN

DNS

- Dashboard
- Expiring / Expired
- Domain List**
- Product List
- Apps
- Profile

Actions ▾ Filters ▾ Search 🔍

<input type="checkbox"/>	CNAME Record	camps	clubmgmtcamps.azureedge.net.	30 min	
<input type="checkbox"/>	CNAME Record	events	clubmgmtevents.azureedge.net.	30 min	
<input type="checkbox"/>	CNAME Record	fundraising	clubmgmtfund.azureedge.net.	30 min	
<input type="checkbox"/>	CNAME Record	fundraising-checki...	clubmgmtfund-checkin-test.azureedge.net.	30 min	

[+ ADD NEW RECORD](#) [SHOW MORE](#)

DNSSEC ? Status

MAIL SETTINGS ? Email Forwarding ▾

Type	Host	Value	TTL	
TXT Record	@	v=spf1 include:spf.efwd.registrar-servers.com ~all	Automatic	

DYNAMIC DNS ? Status

PERSONAL DNS SERVER ? Register Nameserver [+ ADD NAMESERVER](#)
Find Nameservers Standard Nameservers ▾ SEARCH

Q&A

clubmgmtfund-checkin-test - Custom domains

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Origin
- Custom domains**
- Compression
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Monitoring

- Diagnostics logs

Support + troubleshooting

- New support request

+ Custom domain

Custom domains

HOSTNAME	CUSTOM HTTPS	DETAILS
fundraising-checkin-test.clubmanagement.io	Enabled	Certificate successfully deployed

fundraising-checkin-test.clubmanagement.io

Custom domain

Save Discard

About This Feature

Custom Domain HTTPS feature enables you to deliver content to your users securely over your own domain. This is done by encrypting the data between the CDN and your users' clients (typically web browsers) via TLS protocol (which is a successor of the SSL protocol) using a certificate. The workflow to enable HTTPS is simplified via one-click enablement and complete certificate management, all with no additional cost.


[Learn more](#)


Configure


Custom domain HTTPS


On Off

Status

- 1 Submitting request** 
Your HTTPS request has been submitted successfully.

- 2 Domain validation** 
Your domain ownership has been successfully validated.

- 3 Certificate provisioning** 
The certificate has been successfully deployed to CDN network.

- 4 Complete** 
HTTPS has been successfully enabled on your domain.

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Managing the site content

Dynamic
content

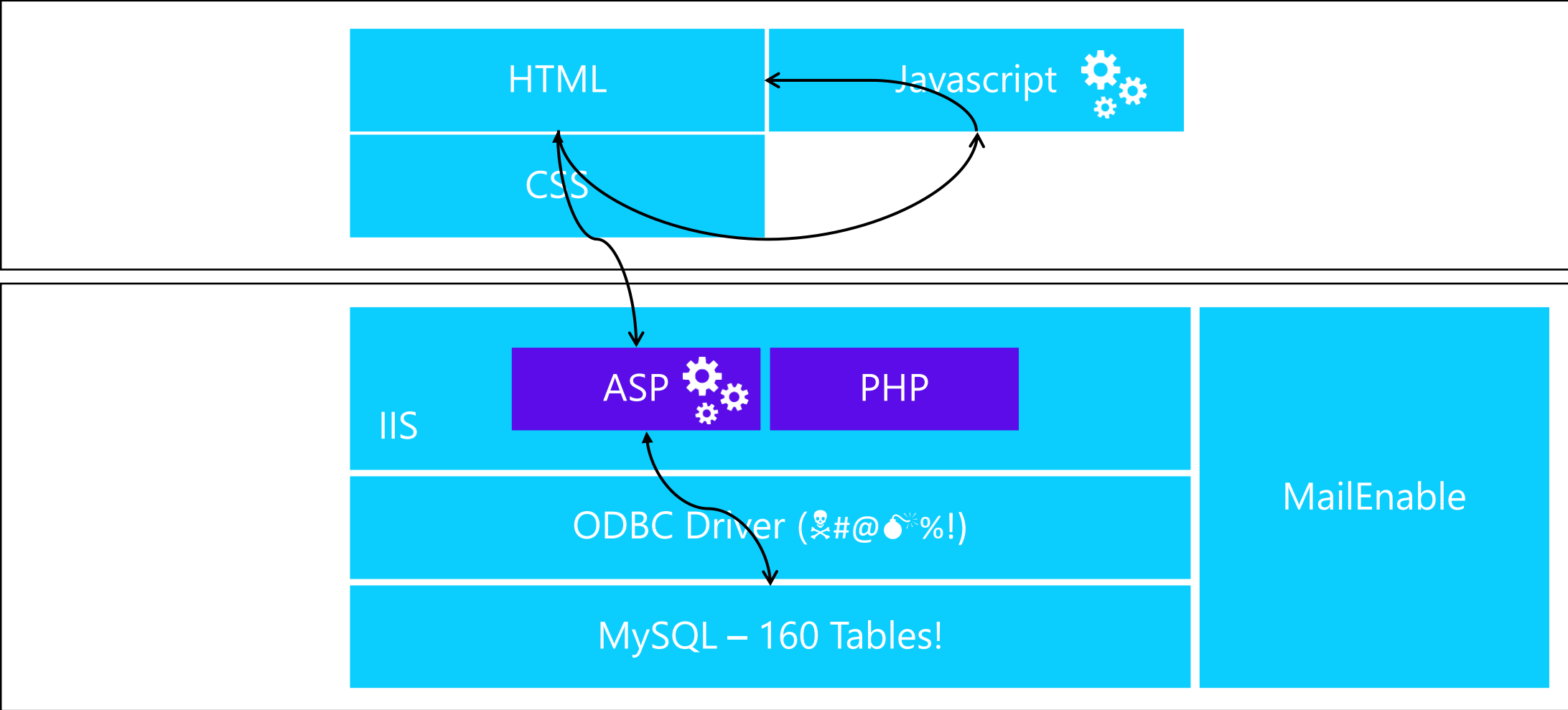
Static Site
Generation

Local
Experience

Publishing
Process

Dynamic content

The traditional way: render on every request



Dynamic content

Not all content is equal

Change rate vs user expectations	Real Time	Delay	Stale
No changes	Manual publishing	Manual publishing	Manual publishing
Occasional	On every request	Automated publishing	Manual publishing
Frequent	On every request	Automated publishing	Manual publishing

In a static site context

- **On every request:** API call with client side rendering
- **Manual publishing:** Update the site and publish
- **Automated publishing:** Plug the publishing process into your business processes

Managing the site content

Dynamic
content

Static Site
Generation

Local
Experience

Publishing
Process

Static site generator

An essential tool in the publishing process

- Renders a website from content files
- Content files in appropriate format
 - Text: markdown
 - Config: Yaml
 - Templates: Handlebars
- A multistep build pipeline (chain of responsibility)
 - Read files
 - Preprocessing steps
 - Rendering
 - Postprocessing steps
- Most popular ones: Jekyll, Hexo, Hugo, ...

Introducing DISH

Why I built my own static site generator

- A library
- Plug into my business logic
- .Net core
- Full control of the pipeline
 - E.g. publish to azure storage static websites

Managing the site content

Dynamic
content

Static Site
Generation

Local
Experience

Publishing
Process

Local Experience

Requires a command line tool

- Write a console app using the library
- Main generation methods
 - **Run**: executes the pipeline
 - **Serve**: hosts the site locally in Kestrel
 - **Publish**: uploads the site to azure storage static websites

```
57     return 1;
58 }
59
60 private static async Task<SiteGenerator> RunGenerator(Options opts)
61 {
62     var configuration = new SiteGenerationConfiguration();
63     configuration.Diagnostics().TraceToConsole();
64     configuration.Url(opts.Url);
65
66     configuration.Apps()
67         .Environment(opts.Environment);
68     configuration.Theme(opts.Theme);
69     var content = configuration.Content()
70         .Handlebars()
71         .Yaml()
72         .Markdown()
73         .ImageSharp()
74         .EnableRssFeed()
75         .EnableAlbums();
76
77     configuration.PostProcessing()
78         .UpdatePrecacheManifest();
79
80     var generator = SiteGenerator.Create(configuration);
81     await generator.Run();
82     return generator;
83 }
84
85
86
```

Solution Explorer

Search Solution Explorer (Ctrl+Q)

- Solution 'Dish.Sitegenerator' (9 projects)
 - Dish.SiteGenerator
 - Dependencies
 - Albums
 - Apps
 - Config
 - Content
 - Diagnostics
 - FrontMatter
 - Markup
 - MetaModel
 - MetaTags
 - Pipeline
 - Posts
 - Runtime
 - Settings
 - Templating
 - Theming
 - Urls
 - Dish.SiteGenerator.Handlebars
 - Dish.SiteGenerator.ImageSharp
 - Dish.SiteGenerator.Markdown
 - Dish.SiteGenerator.Publisher.AzureStatic
 - Dependencies
 - AzureStaticWebsiteExtensions.cs
 - Publisher.cs
 - Dish.SiteGenerator.Server
 - Dish.SiteGenerator.Workbox
 - Dish.SiteGenerator.Yaml

100% 0 1

1 reference | Yves Goeleven, 296 days ago | 1 author, 2 changes

Error List

Entire Solution 0 Errors 0 of 14 Warnings 0 of 3 Messages Build + IntelliSense

Search Error List

Code	Description	Project	File	Line	Suppression St...
------	-------------	---------	------	------	-------------------

Managing the site content

Dynamic
content

Static Site
Generation

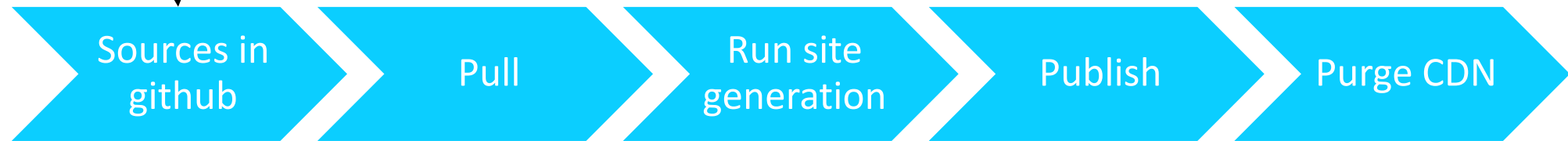
Local
Experience

Publishing
Process

Publishing process

End to end process

Yes, some
parents do
submit PR's



Dish

Manual or
invocation from
code using
octokit

Manual or
Microsoft.Azure.
Management.Cdn

Project boards for your issues and pull requests [Dismiss](#)

Did you know GitHub has project management tools? Manage and automate your workflow with a project board.

[Try it now!](#)

Filters [Labels 22](#) [Milestones 6](#) [New pull request](#)

[Clear current search query, filters, and sorts](#)

<input type="checkbox"/>	<input type="checkbox"/>	0 Open	<input checked="" type="checkbox"/>	22 Closed	Author	Labels	Projects	Milestones	Reviews	Assignee	Sort
<input type="checkbox"/>	Add files via upload - foto kleuterfeest	#185 by DPEWillems was merged 28 days ago									
<input type="checkbox"/>	Create 2019-05-25-kleuterfeest2019.markdown	#184 by DPEWillems was merged 28 days ago									
<input type="checkbox"/>	Festivals2019	#182 by DPEWillems was merged on 25 Mar									
<input type="checkbox"/>	Create 2019-03-10-sportploeg2018.markdown	#179 by DPEWillems was merged on 10 Mar									
<input type="checkbox"/>	Create 2019-03-01-vijwilliger.markdown	#178 by DPEWillems was merged on 1 Mar									
<input type="checkbox"/>	Create 2019-02-23-bus-ottignies.markdown	#177 by DPEWillems was merged on 16 Feb									2
<input type="checkbox"/>	Create 2019-02-13-shegotgame3.markdown	#175 by DPEWillems was merged on 11 Feb									
<input type="checkbox"/>	Create 2019-01-14-hervorming	#170 by DPEWillems was merged on 4 Mar									7


```
Publisher.cs x Program.cs
Dish.SiteGenerator.Publisher.AzureStaticWebsites Dish.SiteGenerator.Publisher
TransferLocalDirectoryToAzureBlobDirectory(string localDirectoryPath, CloudBlobDirectory blobDirectory)
42     return blobDirectory;
43 }
44
45 1 reference | Yves Goelieven, 153 days ago | 1 author, 1 change
private async Task TransferLocalDirectoryToAzureBlobDirectory(string localDirectoryPath, CloudBlobDirectory blobDirectory)
46 {
47     TransferCheckpoint checkpoint = null;
48     var context = GetDirectoryTransferContext(checkpoint);
49     var cancellationSource = new CancellationTokenSource();
50     await _tracer.Info("Transfer started");
51
52     var stopwatch = Stopwatch.StartNew();
53     var options = new UploadDirectoryOptions()
54     {
55         Recursive = true
56     };
57
58     try
59     {
60         await TransferManager.UploadDirectoryAsync(localDirectoryPath, blobDirectory, options, context, cancellationSource.Token);
61     }
62     catch (Exception e)
63     {
64         await _tracer.Error($"The transfer failed: {e.Message}");
65     }
66
67     stopwatch.Stop();
68     await _tracer.Info("Transfer operation completed in " + stopwatch.Elapsed.TotalSeconds + " seconds.");
69 }
70
71 1 reference | Yves Goelieven, 153 days ago | 1 author, 1 change
private DirectoryTransferContext GetDirectoryTransferContext(TransferCheckpoint checkpoint)
```

Solution Explorer

Search Solution Explorer (Ctrl+\$)

- Solution 'Dish.Sitegenerator' (9 projects)
- Dish.SiteGenerator
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 - Dish.SiteGenerator.Publisher.AzureStaticWebsites
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 - Dish.SiteGenerator.Server
 - Dish.SiteGenerator.Workbox
 - Dish.SiteGenerator.Yaml

Solution Explorer Team Explorer

Properties

100% 0 2

Error List

Entire Solution 0 Errors 0 of 14 Warnings 0 of 1 Message Build + IntelliSense Search Error List

Code	Description	Project	File	Line	Suppression St...
------	-------------	---------	------	------	-------------------

Building offline apps

Google
workbox

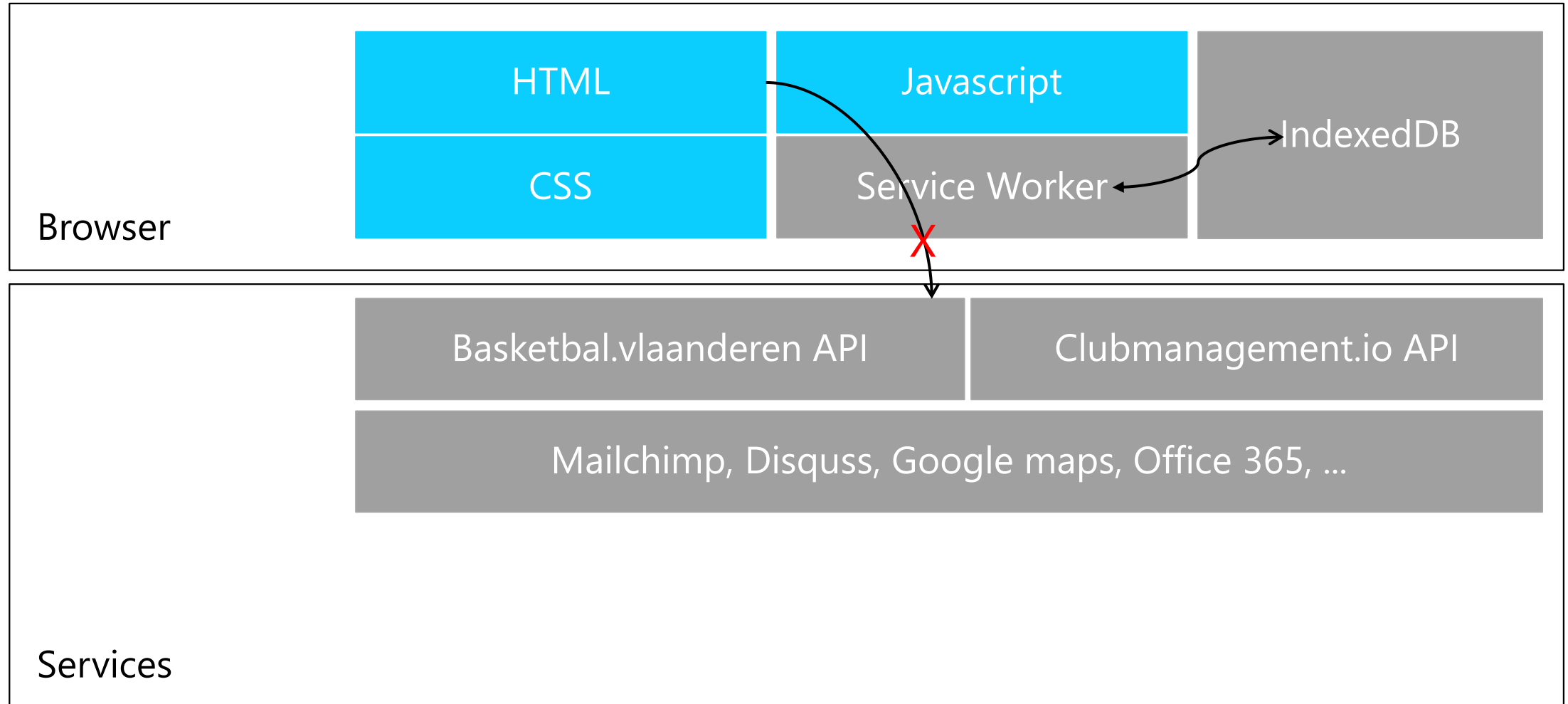
App Shell
pattern

Command
Queue Pattern

Install on
desktop

How it works when offline

Service Worker intercepts and serves from IndexedDB



Service Worker

Background worker for a web pages

- Also runs when browser is closed!
- Available events
 - **Install**: Fired whenever the worker gets installed (happens only once)
 - **Activate**: Fired whenever a loaded page connects to the worker
 - **Fetch**: Fired every time a connected client performs a request
 - **Message**: Communication between frontend thread and background worker
 - **Sync**: Fired after device comes online
 - **Push**: Fired when device receives a push notification
- But you need to write code to handle all those events

```
self.addEventListener('install', function(event){  
  // your code here  
});
```

Google workbox

A set of common patterns for Service Worker

- A javascript library on top of indexed DB & cache storage responding to service worker events
- Available modules
 - **Precaching**: preload files on install
 - **Routing**: configure how to handle specific web requests
 - **Strategies**: caching strategies
 - **Expiration**: remove cached entries
 - **BackgroundSync**: resubmit commands after coming online
 - ...

```
importScripts('https://storage.googleapis.com/workbox-cdn/releases/3.6.1/workbox-sw.js');
```

```
workbox.core.setCacheNameDetails({  
  prefix: 'clubmgmt-fundraising-checkin-cache',  
  suffix: '1.0.0.0'  
});
```

Building offline apps

Google
workbox

App Shell
pattern

Command
Queue Pattern

Install on
desktop

App Shell pattern

'Installation' of all files of the web app

- Service worker 'Install' event
 - All essential files for the app will be downloaded and cached
 - Route with a 'Cache-first' policy: Cache Falling Back to Network

```
workbox.precaching.precacheAndRoute(self.__precacheManifest || []);
```

- Files must be versioned
 - Revision hashes generated by Dish postprocessing step
 - Embed hashes, service worker file must change for changes to take effect

```
self.__precacheManifest = [  
  { url: '/index.html', revision: '16a3cdb338289d....74564ccd3db2430bac' },  
  { url: '/css/bootstrap.min.css', revision: '5a3d8c05785485d3....8b5bd7b0f3168fff1bd9a' },  
  { url: '/css/console.css', revision: '900797671c753ea9b421....f1db2874f32d6264996801' },  
  ....  
]
```

- Your app shell can run offline now, future pages served from cache

DevTools - fundraising-checkin-test.clubmanagement.io/deliveries

Application

- Manifest
- Service Workers
- Clear storage

Storage

- Local Storage
- Session Storage
- IndexedDB
 - clubmgmt-fundraising-cache-precache-1.0_0_0 - https://fundraising-checkin-test.clubmanagement.io/precached-details-models
 - clubmgmt-fundraising-checkin - https://fundraising-checkin-test.clubmanagement.io/
- Web SQL
- Cookies

Cache

- Cache Storage
 - clubmgmt-fundraising-cache-precache-1.0.0.0-temp - https://fundraising-checkin-test.clubmanagement.io/
 - clubmgmt-fundraising-cache-precache-1.0.0.0 - https://fundraising-checkin-test.clubmanagement.io/
 - clubmgmt-fundraising-cache-runtime-1.0.0.0 - https://fundraising-checkin-test.clubmanagement.io/
- Application Cache

Frames

- top

#	Key	Value
0	"/callback-silent/index.html"	{revision: "041b9201649682c61d4640c7d3280d6a43614697e3913513690120954f65ec12", url: "https://fundraising-checkin-test.clubmanagement.io/callback-silent/index.html"}
1	"/callback/index.html"	{revision: "16a3cdb338289dfb505223f0957674f69c5c724306324d74564c3db23403ba", url: "https://fundraising-checkin-test.clubmanagement.io/callback/index.html"}
2	"/css/bootstrap.min.css"	{revision: "5a3d8c05785485d36ee5c94d4681e5b1d9e4b94c5be8b5db70f3168fff1db9a", url: "https://fundraising-checkin-test.clubmanagement.io/css/bootstrap.min.css"}
3	"/css/console.css"	{revision: "900797671c753ea9b421518d2976d87d447cf43f6cf1db2874f32d6264996801", url: "https://fundraising-checkin-test.clubmanagement.io/css/console.css"}
4	"/css/layout.css"	{revision: "e3b0c44298f1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855", url: "https://fundraising-checkin-test.clubmanagement.io/css/layout.css"}
5	"/css/muli.css"	{revision: "770bb3f5c1c77f43bb2a015d393b7b1f04e372253ffc43b63c3c1bbf0fc2fe92", url: "https://fundraising-checkin-test.clubmanagement.io/css/muli.css"}
6	"/css/site.css"	{revision: "8fc2dfc72902110e08a6a9614037839072d0ff499283fbed489167e52df6adb6", url: "https://fundraising-checkin-test.clubmanagement.io/css/site.css"}
7	"/css/theme.css"	{revision: "a256c3f6bf08f84270c32422ad8022ef904e5287bbdef11257052999546eef0", url: "https://fundraising-checkin-test.clubmanagement.io/css/theme.css"}
8	"/dashboard/index.html"	{revision: "e258b7cb386588a1fb2e53d53d22c565c320ae7ee50507e926279ba397dab6d7", url: "https://fundraising-checkin-test.clubmanagement.io/dashboard/index.html"}
9	"/deliveries/index.html"	{revision: "5a34bcf51f1ef7e070b6f62f05e1c3dc482fecb15788498759946519a450334b", url: "https://fundraising-checkin-test.clubmanagement.io/deliveries/index.html"}
10	"/deliveries/order/index.html"	{revision: "8c0e7a5a97adeb18910bea76c791e58da203096fc6d8bd9541970f8cc2ec979d", url: "https://fundraising-checkin-test.clubmanagement.io/deliveries/order/index.html"}
11	"/deliveries/orders/index.html"	{revision: "e9fd9aff9e9d050b7ca4fc1b6df814ba1315e8106dcb12c4fe22e393f225bdf9", url: "https://fundraising-checkin-test.clubmanagement.io/deliveries/orders/index.html"}
12	"/favicon.ico"	{revision: "7178dfc35f7dd45eab8b5821dcd6e0d49f814f041381ec8160b99f51fc1d77a", url: "https://fundraising-checkin-test.clubmanagement.io/favicon.ico"}
13	"/fonts/7Auwp_0qiz-afT3GLRrX.woff2"	{revision: "aa79acbb1ee11433d0df9909b160e929eb6f2ae5d711d8be90bb4c9293634", url: "https://fundraising-checkin-test.clubmanagement.io/fonts/7Auwp_0qiz-afT3GLRrX.woff2"}
14	"/fonts/7Auwp_0qiz-afTLGLQ.woff2"	{revision: "1444bdd7e841dec57aa430b992f16ae006fea3d53226277f4a79d119e452ff35", url: "https://fundraising-checkin-test.clubmanagement.io/fonts/7Auwp_0qiz-afTLGLQ.woff2"}
15	"/fonts/7Auwp_0qiz-afT2GLRrX.woff2"	{revision: "4d6739028e0b4a11784cf90759033d6dc2b1e54d1c0b47f38a477164b974c17", url: "https://fundraising-checkin-test.clubmanagement.io/fonts/7Auwp_0qiz-afT2GLRrX.woff2"}
16	"/img/context/active/add.png"	{revision: "eb96732f0288645418f6ed0ae4a1dc67a3d3dd482398805a9049918fddd30590", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/active/add.png"}
17	"/img/context/active/delete.png"	{revision: "3117b0bd081cda5f1ad61d188b711593b149e70dd9ff56601ec2d039bf1810cd6", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/active/delete.png"}
18	"/img/context/active/down.png"	{revision: "610b6609a6c8e791d9ea1b2bca1e74e684584c717d0582eddb9b76e7187353d", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/active/down.png"}
19	"/img/context/active/edit.png"	{revision: "16b71176c8169a2411b061f644c926ab88665e8639127dda44a9142e4ee448b7", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/active/edit.png"}
20	"/img/context/active/hide.png"	{revision: "ab17c8e5ad18c6b744c2c217b4b7d80f33b02957e61cc7700d4ede917fdfedc7", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/active/hide.png"}
21	"/img/context/active/show.png"	{revision: "d3fbc1c49ddde18188b1ab75332ea14c5b9ff6f8c47fc2d87344bad8cb85fd9", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/active/show.png"}
22	"/img/context/inactive/add.png"	{revision: "b9c361c6b16bed5cb48dd95e38ad66a77f83d13d3ddc221341e44417bba5fa", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/inactive/add.png"}
23	"/img/context/inactive/delete.png"	{revision: "e9fa98792946ac058fdcc3e37042f1caf96d42d83ad3ac8259691043c8ef53b", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/inactive/delete.png"}
24	"/img/context/inactive/down.png"	{revision: "e67208d2b1b7c7002f17ad83e2031556fa533bbb682de2f57cfbfa380a4090a7", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/inactive/down.png"}
25	"/img/context/inactive/edit.png"	{revision: "e4cd377515b47ba3ddcf90b3abde832b7c55b91bd846ca65e4fae7d265d1291", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/inactive/edit.png"}
26	"/img/context/inactive/hide.png"	{revision: "64f0b3614ed70d0c20ea753c3d8a9818f4a268f0c483abfbc14ef5ff18c890d", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/inactive/hide.png"}
27	"/img/context/inactive/show.png"	{revision: "2ca0aa3552fd67653933437b1587fde754dbac2f613397a5bab371dc0c4cfd3f", url: "https://fundraising-checkin-test.clubmanagement.io/img/context/inactive/show.png"}
28	"/img/curry.jpg"	{revision: "5300004c20de28475cee156d9207c895df7d14ee87a37fb04cdc29631d2547a8", url: "https://fundraising-checkin-test.clubmanagement.io/img/curry.jpg"}
29	"/img/loader.gif"	{revision: "d1583e292feba72fb461e11b45113a4aa6d8984343993961bd0d1a48830a912", url: "https://fundraising-checkin-test.clubmanagement.io/img/loader.gif"}
30	"/img/loading-primary.gif"	{revision: "65c5247001d1603bb404fc5aae44b86d6822db6ed9e7c44d4374b9fced7ac1a0", url: "https://fundraising-checkin-test.clubmanagement.io/img/loading-primary.gif"}
31	"/img/logo.png"	{revision: "269f7c0b754a35b938d6ca9ea442b19d3fad88c29d4116222b89233cd448f6ce", url: "https://fundraising-checkin-test.clubmanagement.io/img/logo.png"}
32	"/img/menu/active/dashboard.png"	{revision: "c18ac51269c77152fb08631914e342dd13dd8d3d0a6a4e3a0ce62af2d66ce", url: "https://fundraising-checkin-test.clubmanagement.io/img/menu/active/dashboard.png"}
33	"/img/menu/active/deliveries.png"	{revision: "0739f5bc8e93835791e6f70543a96986b1f7e8ef030511f4c6c2853dc5b5a60e", url: "https://fundraising-checkin-test.clubmanagement.io/img/menu/active/deliveries.png"}
34	"/img/menu/inactive/dashboard.png"	{revision: "c2571599de5544c0a615eb2daa9e2783de07b1897cebdcafaa8045743f3a402", url: "https://fundraising-checkin-test.clubmanagement.io/img/menu/inactive/dashboard.png"}
35	"/img/menu/inactive/deliveries.png"	{revision: "9f8e93c69ce1fe5562f2decf0cf85db4331e4d36cfa2c3cbab558acc3e1a", url: "https://fundraising-checkin-test.clubmanagement.io/img/menu/inactive/deliveries.png"}
36	"/img/orgs/generic.jpg"	{revision: "a76f2faf36c907b7f07540bed700e068a6db63bb292df328e53e157cdcabaff3", url: "https://fundraising-checkin-test.clubmanagement.io/img/orgs/generic.jpg"}
37	"/img/orgs/generic.png"	{revision: "a052e957956c54bb3596e6d03e7b1761e36b6c0387605ccf6768ef9dd250ff", url: "https://fundraising-checkin-test.clubmanagement.io/img/orgs/generic.png"}
38	"/index.html"	{revision: "d4db0647884dc619cc6a4c138852f3b6c9177519e8eaae65b2002e05a9033f0", url: "https://fundraising-checkin-test.clubmanagement.io/index.html"}
39	"/js/ai.js"	{revision: "013819105effb1832cbcbfcc6317b0045170a7f671bd953a21f0847fa1a2e6e", url: "https://fundraising-checkin-test.clubmanagement.io/js/ai.js"}
40	"/js/auth.js"	{revision: "a437390aa5e154bb0cec6d51f31fc37e39620772ce54023a892185ca677f6ea7", url: "https://fundraising-checkin-test.clubmanagement.io/js/auth.js"}
41	"/js/azure-storage.blob.js"	{revision: "db820e1adc18d8b0d93d04141949da10221f5541702ad7dabcb110f49b9ad25d", url: "https://fundraising-checkin-test.clubmanagement.io/js/azure-storage.blob.js"}
42	"/js/bootstrap.min.js"	{revision: "36460e494e4c628443afded40b2743b5ede9a4a76fb4f7b9ef2345cc7e59fd64", url: "https://fundraising-checkin-test.clubmanagement.io/js/bootstrap.min.js"}
43	"/js/catalogs-repository.js"	{revision: "45359fd8c09f7d30483f516d943c4590852c424c09b1d4ad362766856df7b2", url: "https://fundraising-checkin-test.clubmanagement.io/js/catalogs-repository.js"}
44	"/js/config.js"	{revision: "ea1f246a2920302c8f35534485593ae0fb3caf2d1311d56cae433e63d8676ea4", url: "https://fundraising-checkin-test.clubmanagement.io/js/config.js"}
45	"/js/console.js"	{revision: "a23517ef0c1c1277858919570b458ad31223762a0ebbbf06cc3cb9a316092d", url: "https://fundraising-checkin-test.clubmanagement.io/js/console.js"}
46	"/js/dashboard.js"	{revision: "f349a306491e4c43603c6def905b41383945a6cd416e5f514c2f876258feca32", url: "https://fundraising-checkin-test.clubmanagement.io/js/dashboard.js"}
47	"/js/fuse.min.js"	{revision: "757bf16ca62e960ca65226ed0a7de2c2b51a45047ba7ace0d7aa1f090d539f", url: "https://fundraising-checkin-test.clubmanagement.io/js/fuse.min.js"}
48	"/js/getParameterByName.js"	{revision: "1f66bf186b8601bc338bd4587ef307c8f533cf50e0a058501362ad5886ba", url: "https://fundraising-checkin-test.clubmanagement.io/js/getParameterByName.js"}

Console Remote devices What's New Search

top Filter Default levels

Path	Response-Type	Content-Type	Content-Length	Time Cached
/callback-silent/index.html	basic	text/html	3,184	25-4-2019 12:01:54
/callback/index.html	basic	text/html	3,186	25-4-2019 12:01:54
/css/bootstrap.min.css	basic	text/css	19,744	25-4-2019 12:01:54
/css/console.css	basic	text/css	11,774	25-4-2019 12:01:54
/css/layout.css	basic	text/css	0	25-4-2019 12:01:54
/css/muli.css	basic	text/css	356	25-4-2019 12:01:54
/css/site.css	basic	text/css	4,737	25-4-2019 12:01:54
/css/theme.css	basic	text/css	818	25-4-2019 12:01:54
/dashboard/index.html	basic	text/html	6,403	25-4-2019 12:01:54
/deliveries/index.html	basic	text/html	7,981	25-4-2019 12:01:55
/deliveries/order/index.html	basic	text/html	18,769	25-4-2019 12:01:54
/deliveries/orders/index.html	basic	text/html	13,756	25-4-2019 12:01:54
/favicon.ico	basic	application/octet-stream	1,150	25-4-2019 12:01:54
/fonts/7Auwp_0qiz-aFT3GLRrX.woff2	basic	application/octet-stream	6,688	25-4-2019 12:01:54
/fonts/7Auwp_0qiz-aFTGLQ.woff2	basic	application/octet-stream	17,456	25-4-2019 12:01:54
/fonts/7Auwp_0qiz-aFTzGLRrX.woff2	basic	application/octet-stream	16,728	25-4-2019 12:01:54
/img/context/active/add.png	basic	image/png	201	25-4-2019 12:01:54
/img/context/active/delete.png	basic	image/png	423	25-4-2019 12:01:55
/img/context/active/down.png	basic	image/png	356	25-4-2019 12:01:54
/img/context/active/edit.png	basic	image/png	513	25-4-2019 12:01:54
/img/context/active/hide.png	basic	image/png	594	25-4-2019 12:01:54
/img/context/active/show.png	basic	image/png	467	25-4-2019 12:01:54
/img/context/inactive/add.png	basic	image/png	197	25-4-2019 12:01:55
/img/context/inactive/delete.png	basic	image/png	379	25-4-2019 12:01:54
/img/context/inactive/down.png	basic	image/png	340	25-4-2019 12:01:54
/img/context/inactive/edit.png	basic	image/png	506	25-4-2019 12:01:54

Application
Manifest
Service Workers
Clear storage

```

1  /*!
2  * Bootstrap v3.3.7 (http://getbootstrap.com)
3  * Copyright 2011-2016 Twitter, Inc.
4  * Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)
5  */
6  /*! normalize.css v3.0.3 | MIT License | github.com/necolas/normalize.css */
7  html {
8  -   font-family: sans-serif;
9  -   -webkit-text-size-adjust: 100%;
10  -   -ms-text-size-adjust: 100%;
11  }
12  body {
13  -   margin: 0;
14  }
15  article,aside,details,figcaption,figure,footer,header,hgroup,main,menu,nav,section,summary {
16  -   display: block;
17  }
18  audio,canvas,progress,video {
19  -   display: inline-block;
20  -   vertical-align: baseline;
21  }
22  audio:not([controls]) {
23  -   display: none;
24  -   height: 0;
25  }
26  <hidden> template /
    
```

Building offline apps

Google
workbox

App Shell
pattern

Command
Queue Pattern

Install on
desktop

Command Queue pattern

'Store and forward' command requests when offline

- Store 'POST', 'PUT' & 'DELETE' requests on failure to send

```
const queue = new workbox.backgroundSync.Queue('bg-queue', {
  onSync: replayRequests,
  maxRetentionTime: 7 * 24 * 60 // Retry for max a week
});
const bgSync = {
  fetchDidFail: async ({ request }) => {
    await queue.pushRequest({ request });
  }
}
workbox.routing.registerRoute(
  /.+\./api\./.+/,
  new workbox.strategies.NetworkOnly({
    plugins: [bgSync]
  }),
  'POST'
);
```

#	Key (Key path: "id")	Value
0	73	{requestData: {...}, timestamp: 1556558232782, queueName: "ai-queue", id: 73}
1	74	{requestData: {...}, timestamp: 1556560247804, queueName: "ai-queue", id: 74}
2	75	{requestData: {...}, timestamp: 1556560249722, queueName: "ai-queue", id: 75}
3	76	{requestData: {...}, timestamp: 1556569210630, queueName: "ai-queue", id: 76}
4	77	{requestData: {...}, timestamp: 1556622969175, queueName: "ai-queue", id: 77}
5	78	{requestData: {...}, timestamp: 1556622970370, queueName: "ai-queue", id: 78}
6	79	{requestData: {...}, timestamp: 1556622971418, queueName: "ai-queue", id: 79}
7	80	{requestData: {...}, timestamp: 1556622972477, queueName: "ai-queue", id: 80}
8	81	{requestData: {...}, timestamp: 1556622973741, queueName: "ai-queue", id: 81}
9	82	{requestData: {...}, timestamp: 1556622974699, queueName: "ai-queue", id: 82}
10	83	{requestData: {...}, timestamp: 1556622976758, queueName: "ai-queue", id: 83}
11	84	{requestData: {...}, timestamp: 1556622977919, queueName: "ai-queue", id: 84}
12	85	{requestData: {...}, timestamp: 1556622979072, queueName: "ai-queue", id: 85}
13	86	{requestData: {...}, timestamp: 1556622980203, queueName: "ai-queue", id: 86}
14	87	{requestData: {...}, timestamp: 1556622981465, queueName: "ai-queue", id: 87}
15	88	{requestData: {...}, timestamp: 1556622982526, queueName: "ai-queue", id: 88}
16	89	{requestData: {...}, timestamp: 1556622996598, queueName: "bg-queue", id: 89} id: 89 queueName: "bg-queue" requestData: body: ArrayBuffer(207) {} cache: "default" credentials: "same-origin" headers: accept: "*/*" authority: "SzRmMUhuVGsxVHJySjJCRWU4RzZfVzZUUV1ScFRJOHhRR3VQWnhkDUV1Z0JLS1R4Zy8zTkh1VGSrM16b2svYnh6K05DSHJyZFTN3RzUV1lWk5nYy... authorization: "Bearer eyJhbGciOiJSUzI1NiIsImtpZCI6Ijg1NjUzRjFOTM3REJBN0IwMzFFOT1FQTVFRTkzOTdCNDIwRDM5NkElLCJ0eXAiOiJKV1QiLCJ4... content-type: "application/json" origin: "https://fundraising-checkin-test.clubmanagement.io" user-agent: "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/73.0.3683.103 Safari/537.3... integrity: "" keepalive: false method: "POST" mode: "cors" redirect: "follow" referrer: "https://fundraising-checkin-test.clubmanagement.io/deliveries/orders/?s=5e9dc1d9-a17e-4f77-97ac-efcb1c54a72e" referrerPolicy: "no-referrer-when-downgrade" url: "https://clubgmt-orders-service-test.azurewebsites.net/api/purchaseorders/5159e64f-4d2e-42c4-968d-6ff38338129b/5e9dc1d9-a1... timestamp: 1556622996598
17	90	{requestData: {...}, timestamp: 1556623004372, queueName: "bg-queue", id: 90}

Settings

- Discover USB devices
- Need help? Read Chrome [remote debugging documentation](#).
- Port forwarding

Command Queue pattern

'Replay' when back online

```
async function replayRequests(o){
  if(unableToSend()) return;
  while (entry = await o.queue.shiftRequest()) {
    try {
      if(unableToSend()){ // prevents infinite loop if connectivity drops while replaying
        await o.queue.unshiftRequest(entry); return;
      }
      var req = entry.request.clone();
      // fix headers with latest tokens
      req.headers.set('Authorization', "Bearer " + self.__authContext.accessToken);
      req.headers.set('Authority', self.__authContext.authorityToken);
      await fetch(req);
    } catch (error) {
      await o.queue.unshiftRequest(entry);
    }
  }
}
```

Building offline apps

Google
workbox

App Shell
pattern

Command
Queue Pattern

Install on
desktop

Install on desktop

Progressive Web App behaves like a mobile or desktop app

- Install experience
 - Desktop
 - Mobile
- Home screen / desktop icon
- Minimal requirements
 - Manifest.json file
 - HTTPS
 - Service Worker

ducten

0

0

- Nieuw tabblad Ctrl + T
- Nieuw venster Ctrl + N
- Nieuw incognitovenster Ctrl + Shift + N
- Geschiedenis ▶
- Downloads Ctrl + J
- Bladwijzers ▶
- Zoom - 100% + ⏏
- Afdrukken... Ctrl + P
- Casten...
- Zoeken... Ctrl + F
- Clubmanagement Fundraising Checkin installeren...
- Meer hulpprogramma's ▶
- Bewerken Knippen Kopiëren Plakken
- Instellingen
- Help ▶
- Sluiten

Kipfilet 0

Zalm 0

Bestelling toevoegen





Basket Lummen

Dashboard

Leveringen

Bestellingen

Reeds geleverde bestellingen

24

Te leveren bestellingen

0

Te leveren producten

2 stukken	0
3 stukken	0

Te leveren opties

Varkensbrochette	0
Chipolata	0
Scampi	0
Kipfilet	0
Zalm	0

Te leveren

Bestelling toevoegen

Web App Manifest

Manifest.json

```
{
  "short_name": "Clubmanagement Checkin",
  "name": "Clubmanagement Fundraising Checkin",
  "description": "An offline tool for handling check-ins at fundraising events",
  "lang": "nl-BE",
  "icons": [{ "src": "/img/logo_256.png", "type": "image/png", "sizes": "256x256"},
            { "src": "/img/logo_192.png", "type": "image/png", "sizes": "192x192"},
            { "src": "/img/logo_512.png", "type": "image/png", "sizes": "512x512"}],
  "start_url": "/dashboard/",
  "background_color": "#EEEEEE",
  "theme_color": "#00A5D5",
  "display": "standalone",
  "related_applications": [{
    "platform": "web",
    "url": "https://fundraising-checkin.clubmanagement.io"
  }]
}
```

Ready for revenge ?
of the static website

Conclusion

Static websites provide a great client development platform

- It's cheap!
- It's simple!
- Single codebase for any app (PWA)
 - Web, desktop & mobile apps!
 - Offline

Q&A



POLLER
Piron
3550

04 59.12

eko

prijsstik
U...
Specialist

VOLDERSWA
DAKWERKEN BV

WWW.VOLDERSWA
DAKWERKEN

- Back row (standing): 10, 16, 11, 5, 33
- Front row (kneeling): 8, 4, 9, 7, 6, 13, 15

8

4

9

7

6

13

15

10

16

11

5

33

JANSSEN
RIOTECH

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