visma-slovakia.sk

Tomas Blanarik

How it all started …

- Started as a small idea for Recruitment app
- Then we created Referral app
- Then we needed identity management for all
    - Managing multiple clients at one place
    - SSO, etc.
- Then we added gateway, …
- … and the story continues
- Expanded to a big solution
    - 39 projects
    - 11 nuget packages (Visma.Common library)
- Almost 1 year of development
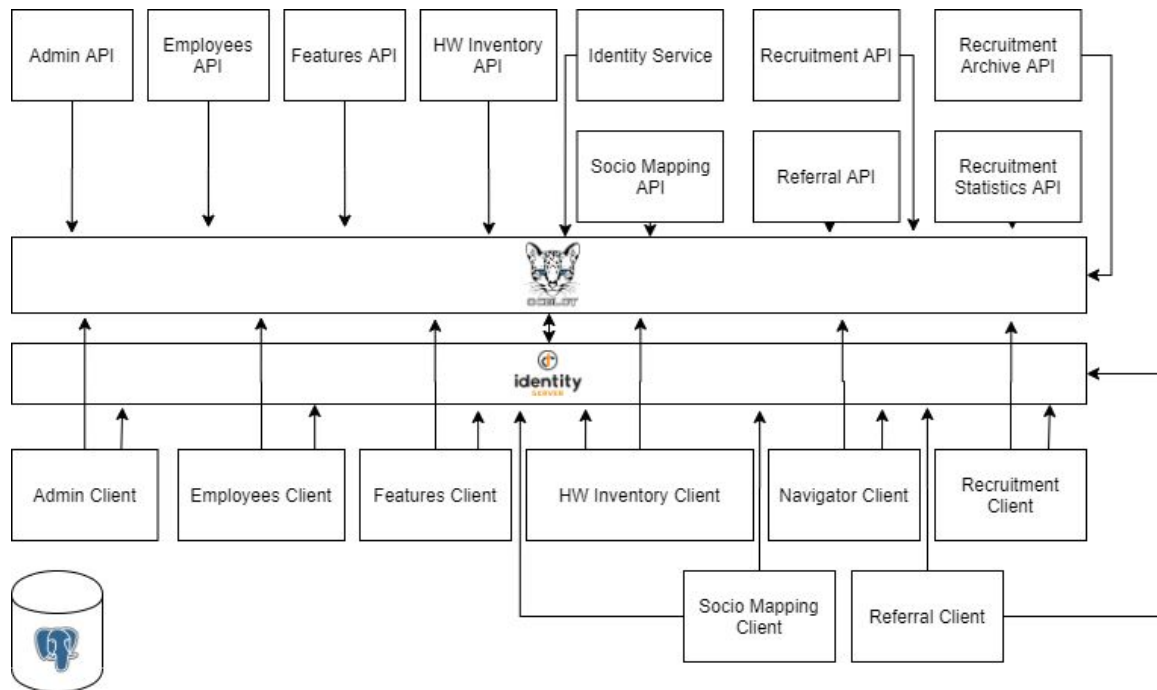
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Let's look inside!

Architecture

Technologies
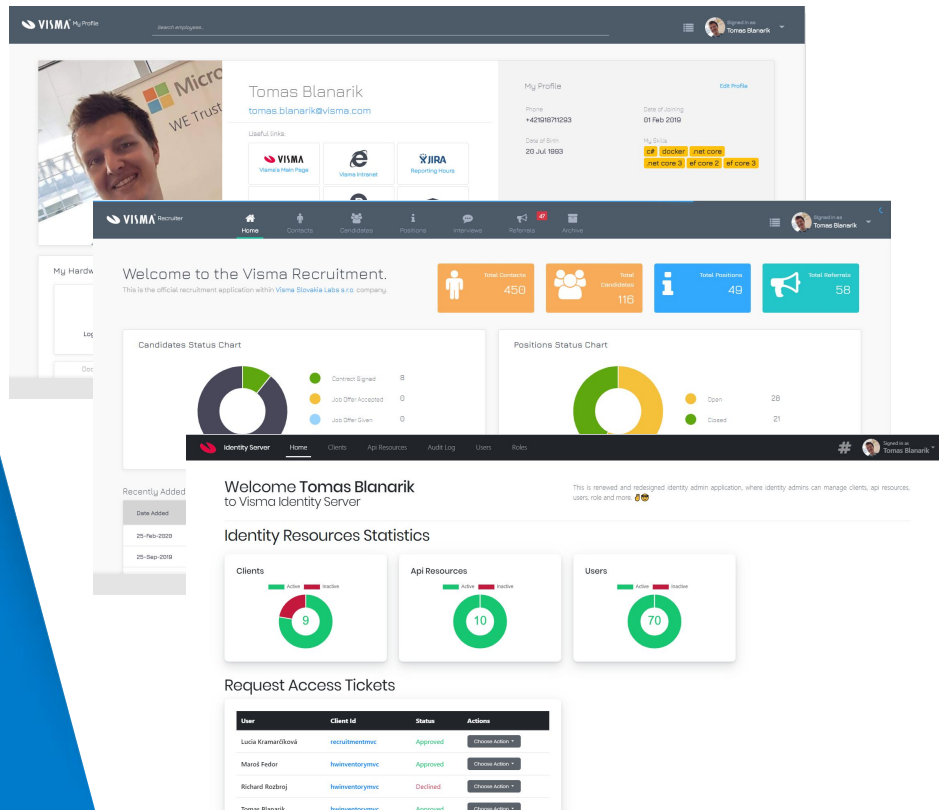
Architecture

- Microservices
- Gateway pattern
  - Aggregators
  - Compositors
- OpenID + OAuth2
- Database per service
- Dockerized
  - Hosted on forpsi.sk
  - Nginx
  - Ubuntu 18

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Technologies

- .NET Core 2.2
- Ocelot
- Polly
- AutoMapper
- RawRabbit
- EF Core 2.1 + PostgreSQL
- Mostly MVC, also SPA (Angular)
- Docker
- Identity Server 4
- Custom design + Bootstrap
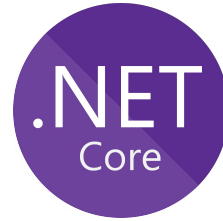
Visma.Common

- Set of libraries for this platform
    - **Common** - basic configuration for all projects (logging, etc.)
    - **Core** - operations, configuration classes, helpers
    - **Authentication** - configuration for authentication and Identity Server
    - **BackgroundJobs** - configuration for background jobs
    - **EntityFramework** - database configurations
    - **HealthChecks** - add health checks to your apps
    - **Middleware** - set of middlewares (CSP, GC, ...)
    - **RabbitMQ + RabbitMQ.Core** - support for rabbitmq communication
    - **API** - pre-configured API project for quicker start-up
    - **MVC** - pre-configured MVC project for quicker start-up
- Current version 1.x.x (.NET Core 2.2)
- Development of 2.0.0 in progress (transition to .NET Core 3.1)

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Published Packages

Package ID	Owners	Signing Owner	Downloads	Latest Version	
Visma.API	tomas.blanarik	tomas.blanarik (0 certificates)	1,702	1.0.3	✎
Visma.Common	tomas.blanarik	tomas.blanarik (0 certificates)	1,844	1.5.4	✎
Visma.Common.Authentication	tomas.blanarik	tomas.blanarik (0 certificates)	799	1.0.1	✎
Visma.Common.BackgroundJobs	tomas.blanarik	tomas.blanarik (0 certificates)	519	1.0.0	✎
Visma.Common.Core	tomas.blanarik	tomas.blanarik (0 certificates)	543	2.0.0-rc7	✎
Visma.Common.EntityFramework	tomas.blanarik	tomas.blanarik (0 certificates)	777	1.0.0	✎
Visma.Common.HealthChecks	tomas.blanarik	tomas.blanarik (0 certificates)	429	1.0.0	✎
Visma.Common.Metrics	tomas.blanarik	tomas.blanarik (0 certificates)	419	1.0.2	✎
Visma.Common.Middleware	tomas.blanarik	tomas.blanarik (0 certificates)	843	1.0.3	✎
Visma.Common.RabbitMQ	tomas.blanarik	tomas.blanarik (0 certificates)	528	1.0.0	✎
Visma.Common.RabbitMQ.Core	tomas.blanarik	tomas.blanarik (0 certificates)	481	1.0.0	✎
Visma.Common.ServiceHost	tomas.blanarik	tomas.blanarik (0 certificates)	293	1.0.0	✎
Visma.MVC	tomas.blanarik	tomas.blanarik (0 certificates)	2,235	1.1.5	✎

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But wait, this is only beginning...

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visma-slovakia 2.0

Cooler, faster, better.

Changes in 2.0

- .NET Core 3.1(LTS) *
  - Faster, less memory consuming
- Aggregators + Compositors
- EF Second Level Cache *
  - Redis and faster querying
- Response Compression and Caching *
- System.Text.Json *
  - Faster, less memory consuming, but still buggy
  - Newtonsoft still more suitable, because of configuration (**ReferenceLooping)**

- Docker Registry for Images
- Docker Swarm
  - Scaling
- Design Reboot *
  - Dropped custom design and using only B4
  - Shards.CSS for better shadows, colors
- CI/CD
  - Jenkins + Gitlab Pipelines
- Application Changes
  - Lot of changes in recruitment, etc.

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Signed in as
Tomas Blanarik

Welcome **Tomas Blanarik**
to the Referral portal.

This is renewed and redesigned referral application, where you can suggest candidates to Visma. 🤞✌️

Some basic facts 🐈‍⬛

Referral Bonus

Current referral bonus is **1000 €**. Once candidate is accepted, you will receive bonus after his/her trial period (3 months). 😎

Years of Experience

We would be happy if you give us candidates with at least **3** years of experience, but of course, exceptions are welcome!

Do Recruitment First

Before you give us any candidates, take a seat and talk to your potential colleagues. Talk them about the company, projects and do some recruitment first!

Referrals Statistics

Created   In Progress   Rejected
Closed

2
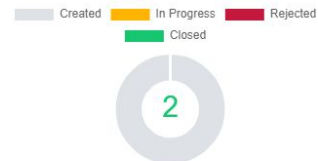
My Referrals

Name	Email	Phone	CV	Position	Notes	Status	Date Added	Actions

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Signed in as
Tomas Blanarik

C# Experienced Developer (IVC4)

Priority: **Critical**
Due Date: **31-Mar-2020**
Required Skills: `c#`

💬 Show Job Description   ☰ Show Referrals (0)   ➕ Create Referral

Job Description

Links and buttons

Use `<a>` s or `<button>` s to create *actionable* list group items with hover, disabled, and active states by adding `.list-group-item-action` . We separate these pseudo-classes to ensure list groups made of non-interactive elements (like `<li>` s or `<div>` s) don't provide a click or tap affordance.

Be sure to not use the standard `.btn` classes here.

Windows administrator (IVC6)

Priority: **High**
Due Date: **29-Mar-2020**
Required Skills: `windows` `admin`

💬 Show Job Description   ☰ Show Referrals (0)   ➕ Create Referral

Job Description

```
public interface Position
```

Represents a location within a document. It is intended to abstract away implementation details of the document and enable specification of positions within the document that are capable of tracking change as the document is edited.

A `Position` object points at a location between two characters. As the surrounding content is altered, the `Position` object adjusts its offset automatically to reflect the changes. If content is inserted or removed before the `Position` object's location, then the `Position` increments or decrements its offset, respectively, so as to point to the same location. If a portion of the document is removed that contains a `Position` 's offset, then the `Position` 's offset becomes that of the beginning of the removed region. For example, if a `Position` has an offset of 5 and the region 2-10 is removed, then the `Position` 's offset becomes 2.

`Position` with an offset of 0 is a special case. It never changes its offset while document content is altered.

Java Developer (IVC5)

Priority: **Medium**
Due Date: **29-Aug-2020**
Required Skills: `java` `tomcat` `postgresql`

💬 Show Job Description   ☰ Show Referrals (1)   ➕ Create Referral

Python Developer (IVC7)

Priority: **Low**
Due Date: **07-Mar-2020**
Required Skills: `python` `ipa` `machine learning`

💬 Show Job Description   ☰ Show Referrals (0)   ➕ Create Referral

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Some facts ...

- .NET Core 2.2 - high memory usage
  - GCMiddleware (2GB vs. 400MB)
- Lazy Loading vs Eager Loading
  - EF Core optimizations
- Database pooling
- AsNoTracking()
- Object Mapping
  - AutoMapper vs. Mapster
- CSP

- Bundling and Minification
- Auto-refresh of access_token for proxy services
- Everything configurable!

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We're hiring :)

Help is welcome!

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Respect

Reliability

Innovation

Competence

Team spirit

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