

Technologies overview

- **Flask** - Flask is a lightweight framework for Python. It's a tool to create sites quicker, it makes development faster by offering code for all sorts of processes. We use it for our API for its minimalism and easy-to-use to library;
- **Angular** - Angular is a web development platform built in TypeScript that provides developers with robust tools for creating the client side of web applications. It provides loads of inbuilt filters, pipes for modulating our data on UI;
- **Azure** - Microsoft Azure is the second largest cloud service provider in the market right now. It provides a computing platform, and acts as an online portal for users to access and manage resources and services provided by Microsoft. It offers a wide range of services that are useful for our application such as:
 - **App Service** - Azure App Service is an HTTP-based service for hosting web applications, REST APIs, and mobile back ends. We do not have to worry about infrastructure, it offers auto-scaling, high availability and enables automated deployment from GitHub;
 - **Cosmos DB** - Cosmos DB is a global scale, incredibly fast, very powerful and secure database. Our application uses this service to store sensitive information about our users and about the adverts;
 - **Blob Storage** - Azure Blob storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. It is very useful to our application for storing pictures of our users' beloved pets;
 - **Azure Active Directory** - this service for Azure lets us manage group policy or authentication. This makes adding and managing a security structure for our app as easy as a few clicks;
 - **Key Vault** - Azure Key Vault is a tool for securely storing and accessing secrets. We use it in our app to manage our credentials;
 - **Azure Function** - Azure Functions is a serverless compute service that lets you run event-triggered code without having to explicitly provision or manage infrastructure. It is used in our app in order to send confirmation emails to our users;
 - **APIs** – the Azure platform has various and highly useful APIs available for our project, we make use of them for sending emails (SendGrid API), for our location services (Azure Maps) and for the calendar (Office365 Outlook API).