

My New Friend

1. Many people nowadays, when they have too many animals and don't know what to do with them, end up abandoning them. Alternatively, there are many animals without a home, and many shelters cannot take in new animals due to lack of space.

However, there are also many people who are looking for a new friend for their home, but many do not know where to look, or end up buying expensive animals when many others are looking for a new home for free.

So our team came up with the idea for this project, "MY NEW FRIEND!", where anyone can register the animal they want to offer a new family to. Similarly, animal shelters can register the animals they have available, so that each can find a loving home.

It is a frequent problem in our country that stray dogs are gathered from cities and transported to fields near villages, making it unsafe for children and adults alike to walk alone on the streets, as there are both gentle and dangerous dogs.

Therefore, these animal shelters, as well as people who drive their animals out of their homes because they think "they no longer need them," can find a better way to give them away and thus reach a more loving home. They can find a way to reach a larger audience through adoption announcements!

One solution would be a trustworthy website where they can give their animal up for adoption!

2. There are already existing websites for adoptions, such as adoptiicaini.ro, but:
 - it would be useful to have a site where users can post all kinds of animals, not just dogs.
 - there should be more emphasis on promotion and advertising so that information and announcements can reach the widest

possible audience. Currently, there are no such ads on social networks like Instagram or Facebook, where information is assumed to reach the public fastest, especially the younger audience.

Advertising is very important nowadays. For example, in addition to the website, there could be Instagram, Facebook, or TikTok pages for the site. If the admin posts quality content with and about animals, announcements and information about the site can reach people more quickly.

Unlike many other websites, we choose to offer users the option to authenticate with Microsoft, thus adding more security to our clients. It is no longer necessary to generate another username or password for an account, since all of these are already secured in Microsoft's databases.

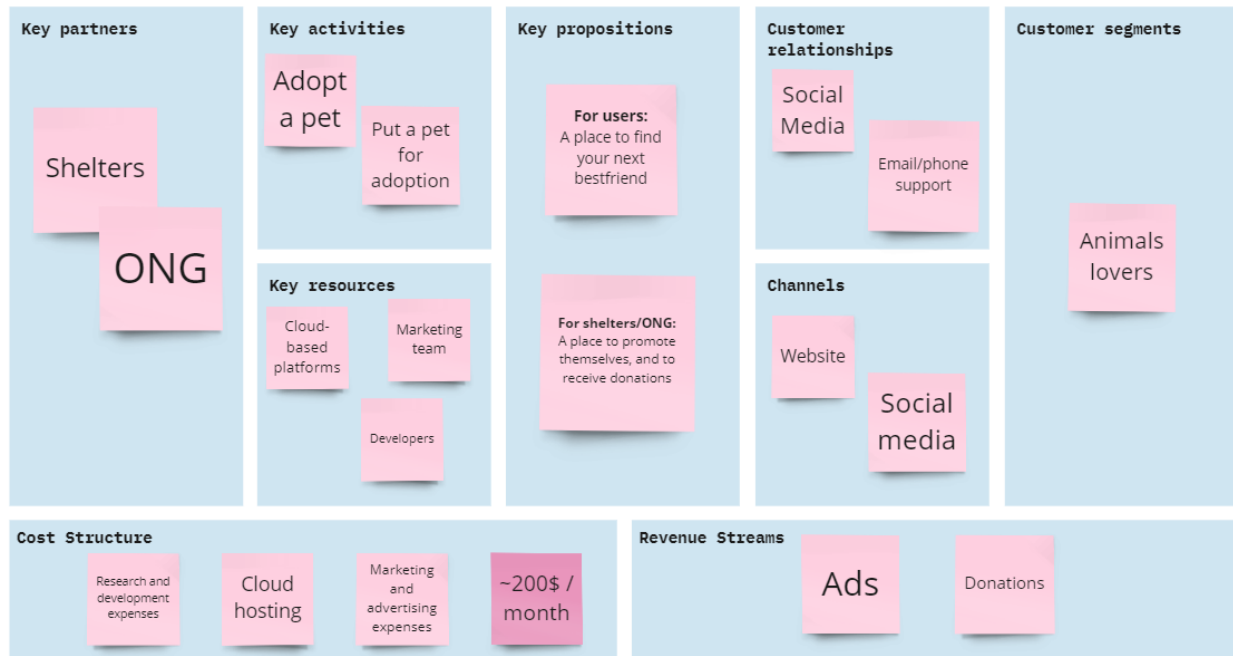
3. Technologies we want to use:
 - **Node.js** - because we have a lot of frameworks, such as express, that are easy to use and make our life much easier.
 - **React.js** - because it's easier for us to use the same programming language for both client and server. In this case, Javascript. It's also nice that React provides the reusable components which help accelerate development and reduce the amount of code that needs to be written.
 - **Bootstrap** - because it's easy to integrate with React, helps a lot with the responsive design, and offers cross-browser compatibility. It's also time saving: by using bootstrap we can save time by not having to write CSS and JavaScript code from scratch.
 - **Microsoft MySQL server** - because it's very user-friendly and easy to use. It's also very easy to make the connection between the app and the database. It's also known for the fact that it offers performance, scalability and reliability. Microsoft SQL

Server provides security features that help protect data against unauthorized access, breaches, and attacks.

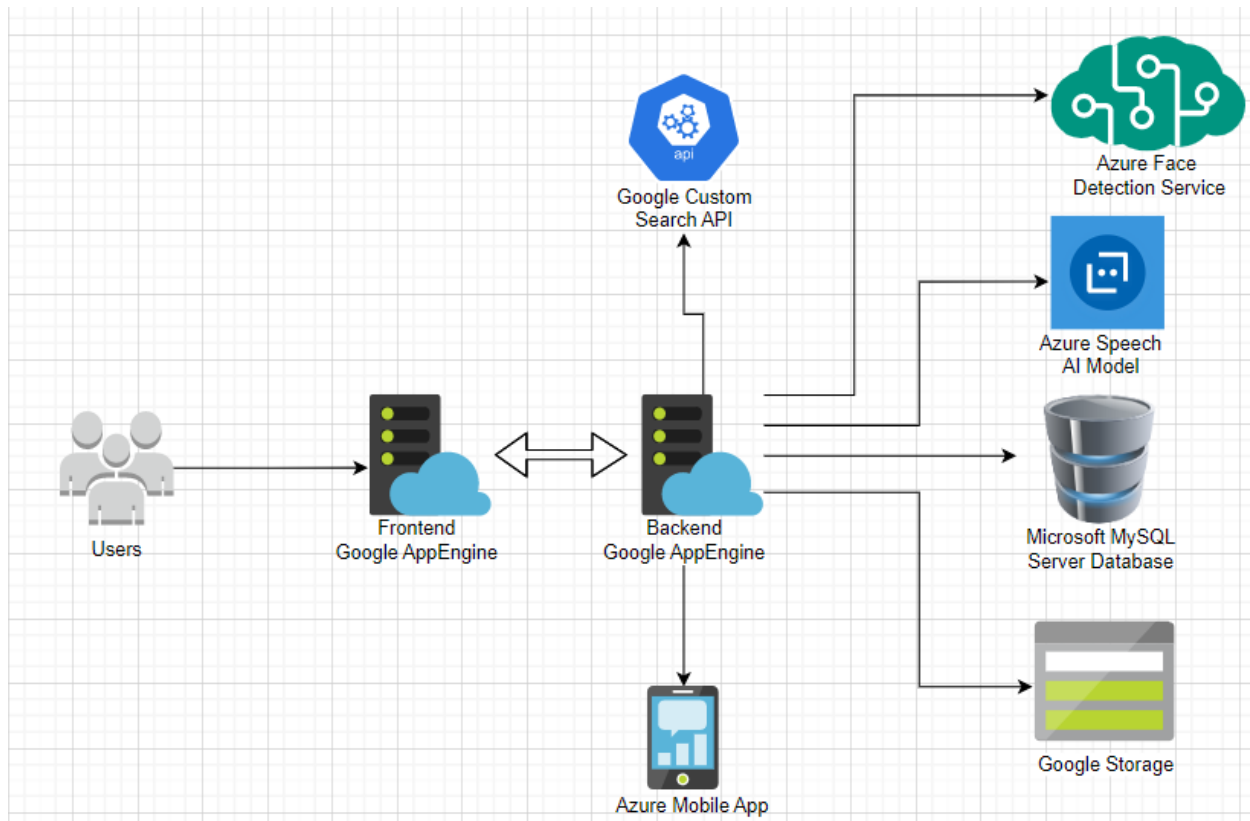
- **Google Storage:** we will use it to store images we receive from the users. Cloud Storage offers secure-by-design features to protect your data and advanced controls and capabilities to keep your data private and secure against leaks or compromises.
- **Google Custom Search API** - this will facilitate the searching process on our website. If you want to adopt a dog and you want to know more about the breed of that dog you can easily search from our app and the results will be relevant because this API uses the same powerful algorithm as Google Search. We can also customize the search by providing reliable sites to search on.
- **Azure Speech-To-Text** - this will help the customers find what they need easier. Our website will offer a list of voice commands the customer can use for easier use. For example, if you want to adopt a dog you can say "I want to adopt a Husky" and the website will redirect the user to a page where you can adopt a Husky, or you can say "I want to learn more about Husky" and we will call the API mentioned above to give you more information. With this Service, we can give the user the option to choose the microphone he wants to use. The service has more languages but we plan to use only the english one for the moment.
- **Google Authentication** - this will help users login with their google account. The website will create a new account at the moment of login and we will pair the account created with your google account.

4. Business Model Canvas

The Business Model Canvas



5. Architectural diagram



6. Use-Case Diagram

