

## Online Pet Store

For this web application we plan to build a database for a pet shop/shelter. Our database will include all available pets at a specific store, information about the specific breed and, more importantly, it will include personalized information about each pet. Our target users are people looking to buy or adopt pets from nearby stores.

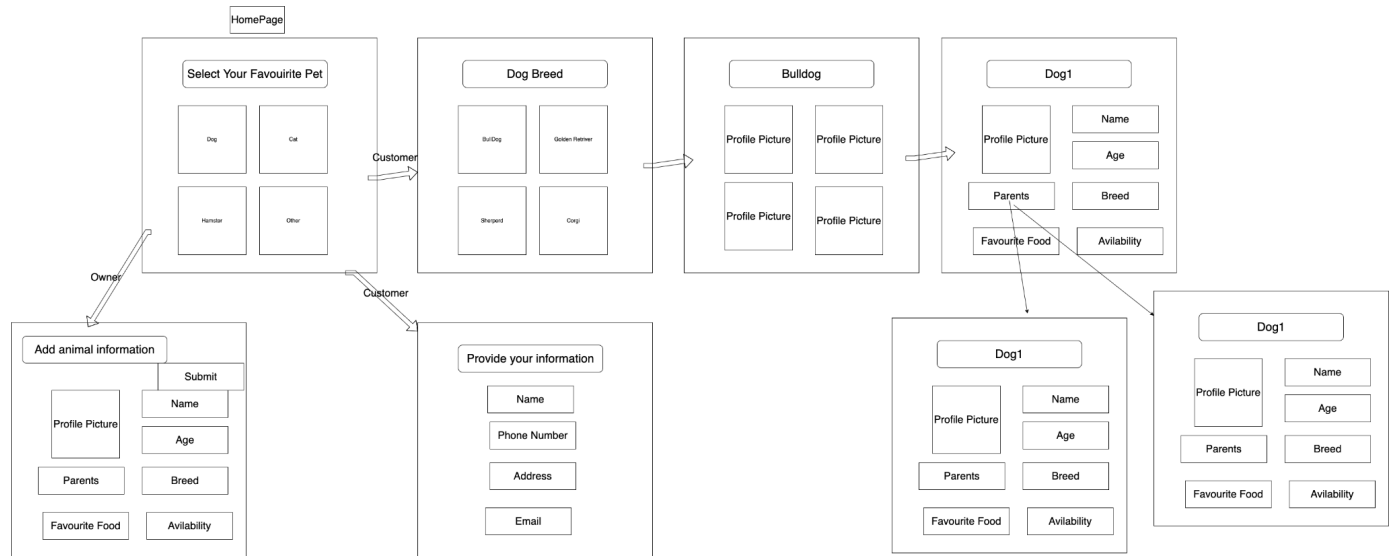
We plan to have two main sources of data. The first being the availability and personal information of each pet and that will be input/updated by store employees. The second being general information about the breed. We aim to create an app where users have all they need in one place. We want to allow our users to search for pets nearby and be able to filter based on pet type, breed, age, and location.

Our pet shop application aims at providing a better experience for pet buyers to find and buy the most suitable pet online. Our application would provide the specific information for each pet such as age, size, color, etc. so that pet buyers could decide even without going to the pet store. Most pet shop websites, however, are missing specific information about individual pets. For example, [www.petsmart.com](http://www.petsmart.com) shows only the general information of a breed. Without the detailed information about each single pet, it is impossible for customers to shop online unless they visit the shop to pick the suitable one. It is worth mentioning that many pet adoption websites, like [www.adoptapet.com](http://www.adoptapet.com) and [www.asPCA.org](http://www.asPCA.org), are very similar to our proposed application. However, our website aims at pet shops and would feature pet prices and the purchase information, which pet adoption websites would not include.

We get our dog information from Stanford Dogs Dataset, which includes 20580 dog images of 120 breeds of dogs from around the world. We will be randomly generating specific information like age and name for each dog to mimic the real-world scenario. We will be focusing on implementing dogs first before moving on to other animals since it's rather difficult to find information regarding other animals. Hopefully in the future, some pet store owner will come to us and provide us with real world pet information at that store.

There are two main users for our application: customers and store owners. Customers can search for specific pet-based attributes of the pet: age, breed, availability and so on. Pet store owners can create, delete, and update information about each of the pets. For example, if a new dog is born, its information can be created and stored into the database. If a dog is adopted by a customer, its information should be deleted from the database. If the dog has grown one year older, its age should be updated accordingly.

Here is what our web page should look like. Note that each big rectangle is a single page that has links to other pages.



Project work distribution:

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Create a Pet Table format for store owners to edit. Initialize attributes like height, weight, age, color, etc.	Create a Breed table that has all different breeds of chosen pets. Customers will be allowed to order output by availability or distance to store. Use an existing database to populate the breed table.	Create a Pet Store table and purchases table, using auto generated data.	Create a Customer table using auto generated data. Create a personalized information table.
Write queries allowing store employees to edit and update the Pet table.	Write queries to allow customers to order output by availability or distance to store	Write queries related to the purchase table	Write queries related to the customer table and personal information table.