# CS 340 README – Antonio Sobalvarro

**Required Functionality**

Grazioso Salvare has requested an app that will allow them to sift through the databases of five animal shelters in the Austin, Texas area in order to find dogs suitable for training in one of three specialized types of rescue missions. They have requested to filter results by dog breeds, age ranges, and gender through a dashboard that is user-friendly and intuitive to navigate. In order to provide the best result, a data table with all available pet information will be displayed on the interface along with a pie chart that shows the percentage of each breed available and a map that shows the location of the pet. Another functionality that has been added is a drop-down menu that allows the customer to select the specific type of rescue mission in order to further narrow their results to select breeds of dogs that meet other criteria set by the customer.

**Tools and Rationale**

Mongo was used in this project because of the ease of setup with a csv database. Mongo also provides a chance to index attributes and present it in a table all while using Python, which has a much simpler syntax. Dash was used to build the dashboard because it does not require the developer to stay within the parameters of a set framework, which allows a programmer to quickly and easily make an app that follows certain set requirements.

**Steps taken to complete the project**

The animal shelter database was previously uploaded, and a chart was made out of the information contained in the database that displayed unfiltered information. For this particular project, the search parameters were implemented, and features were added to the chart to allow users to narrow down information as needed.

**Screenshots**

See below

## Contact

Antonio Sobalvarro

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Description automatically generated

Graphical user interface

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Graphical user interface

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Graphical user interface, application

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