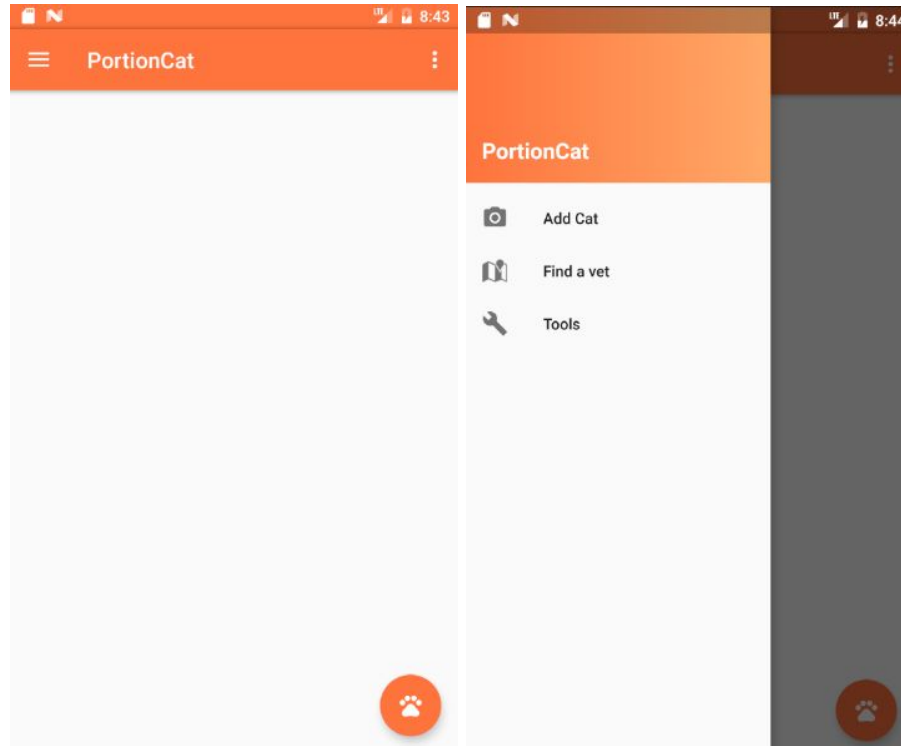# PortionCat
Documentation

By Jocelynne Gonzales
November 21, 2016

Feline obesity is the most common health problem that veterinarians assess when it comes to their feline patients. PortionCat is an app for cat owners who are seeking guidance for the nutritional needs of their cat.

When launching the application, the first activity shown will be an empty list view in the MainActivity class. The floating action button on the bottom right of the screen can be clicked to add a cat to the database. In addition, the user may add a cat through the navigation bar. The navigation bar is also where you can choose to "Find a vet" within their location, and a "Tools" section is where you can configure your account and app (not yet implemented). The "Tools" section will include options to change from imperial measurements to metric measurements.

Adding A Cat

When adding a cat, you will be prompted to fill out basic information about your pet.

Three edit texts contain hints to allow you to write their pet's name, birthday and weight. The name must be between 1-10 characters, which is enforced upon clicking "Finished", else you will be prompted with a toast notification that the name must be 1-10 characters long.

The birthday must also be in "mm/dd/yyyy" format. The weight must be a number but can be a double. A toggle button allows you to toggle between "male" or "female". If the toggle is never pressed, upon pressing "Finished" the cat will be added as male.

A radio group restricts the user to choose either dry or wet food as their food of choice.
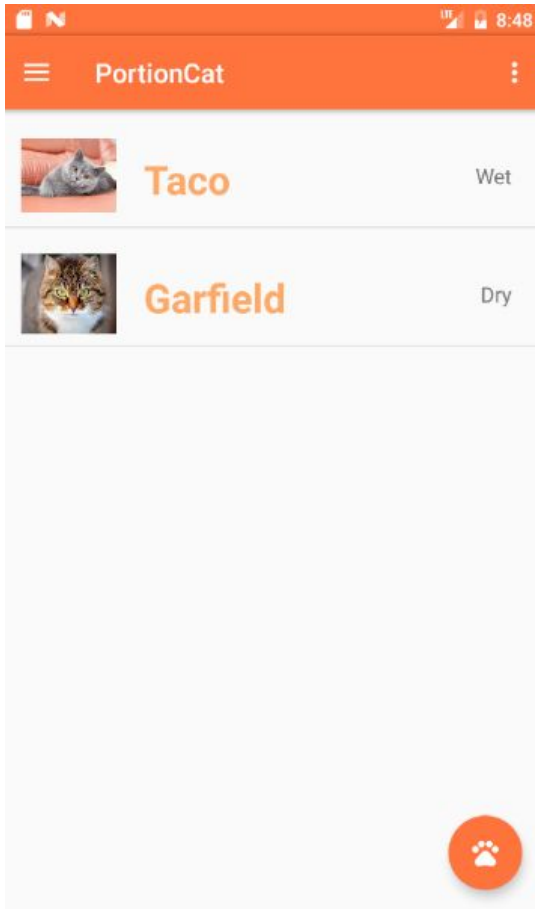
One of the main features is the ability to add a photo of your cat. When "Add photo" is pressed, the user will be asked for permission to access their external storage device. Once the app has access, the user can select a photo of their choice to represent their cat. This photo will be displayed as a thumbnail above the buttons.

The user may also choose to take a photo, which will launch the camera application and allow them to take a photo. Once a picture is taken, that picture will display a thumbnail above the buttons.

At this time, adding photos for your cat is mandatory. If a photo is not selected, once "Finished" is pressed, a toast notification will alert that an image is required. Future updates will allow the user to add cats without using photos.
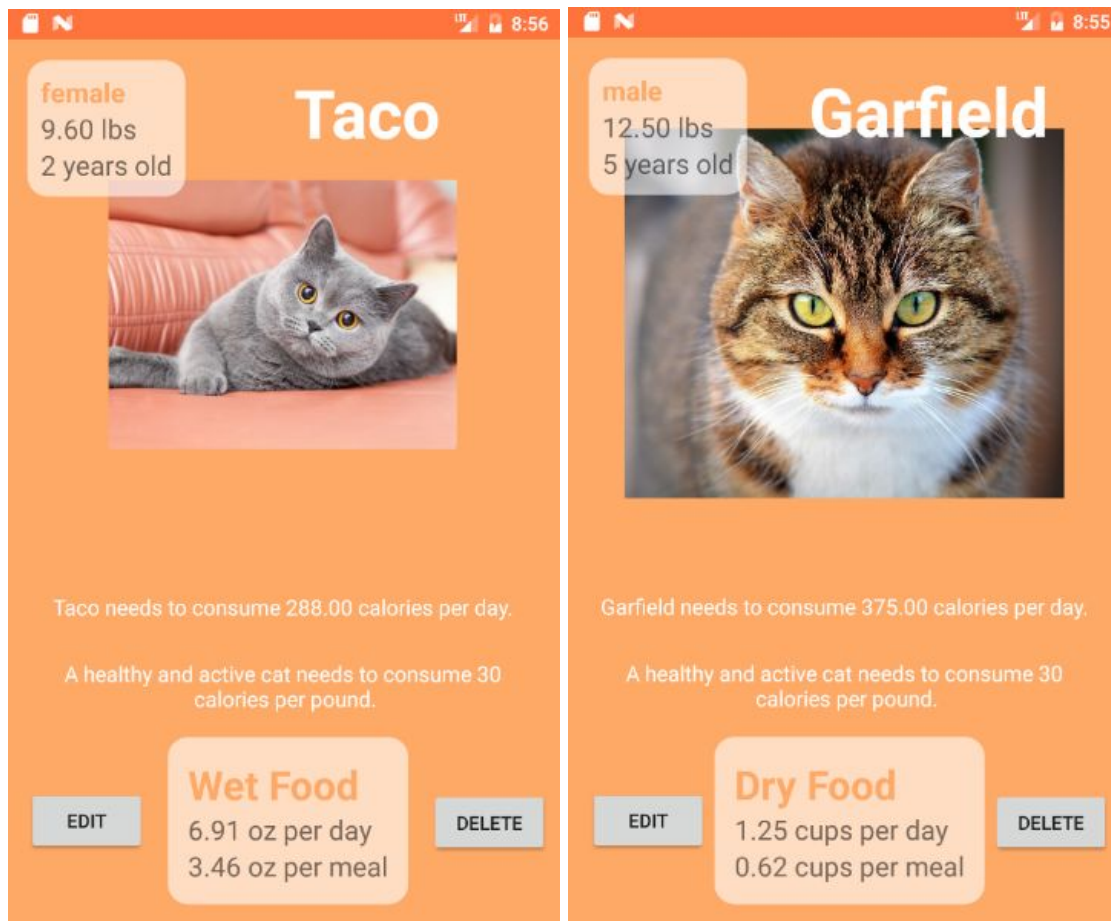
The ListView

After all information is entered correctly, pressing "Finished" will take you back to the MainActivity view. This time, the ListView will be updated with a new cat. In this screenshot, we have added two cats to the ListView. The ListView now lists the cats with previews of their names, thumbnails of their images, and the type of food that they eat.
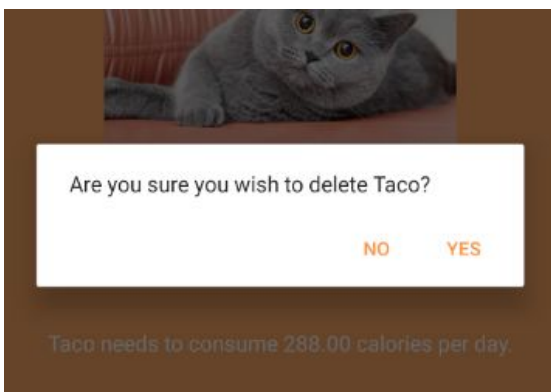
Each cat in this ListView can be clicked for a detailed view, which includes portion information.
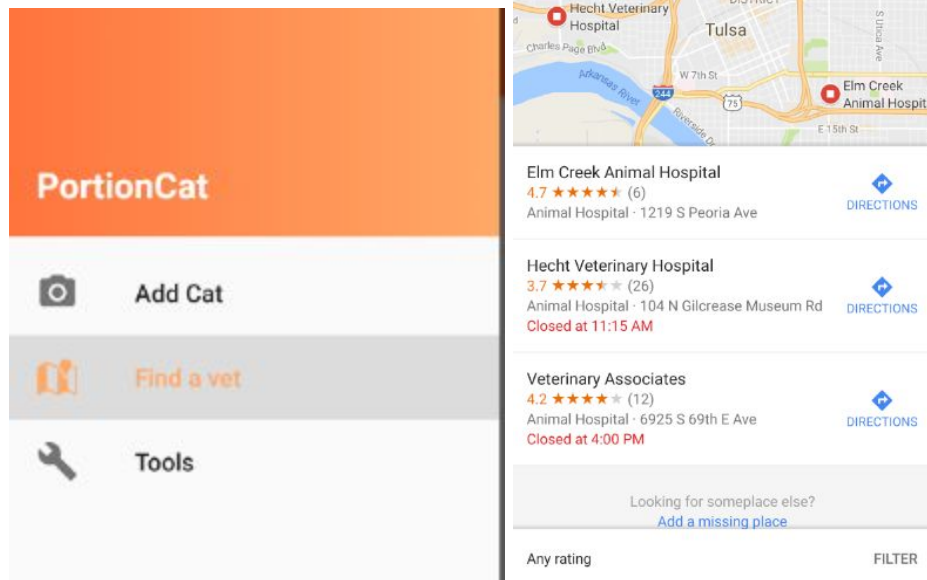
Examining A Cat

Once a cat is selected, a detailed overview of their caloric needs and the user inputted information will be displayed. For example, the cat in the example above "Taco" must consume 288 calories a day in correspondence with her weight. These requirements have been confirmed by articles posted by the American Animal Hospital Association (source), but plans to publish this app will be made after direct consultation with a local veterinarian.

The examples above show two cats that eat different food types. Formulas are different for wet and dry foods due to their caloric differences. "Edit" is not yet implemented but will allow the user to change all cat information in the database, including the cat's photo.

When "Delete" is pressed an alert box will prompt you to confirm the deletion. Once confirmed, you will return back to the ListView with the cat now deleted.

Finding A Vet

Clicking "Find a vet" on the navigation bar will open Google Maps and display a search result of veterinarians within close proximity of the user.

Unfinished features include the option for users to sign in to the app to save their data even if the app is uninstalled. This feature will use Google Sign-In; the user will be able to sign in through the navigation bar. This feature is more easily added once the app is ready to be published to the Google Play Store, because a signing certificate is required. Support for cats without photos will also be added, including an immunization tab for the cats so that users can see their immunization records. Fragments will also be supported and large screen sizes, which will be integrated with the database.