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myPetsApp

Description

Problem:
A pet owner has need to manage their pet(s) overall health and care, by tracking the latest shots, licenses, health info, food intake and photos.

Proposed Solution:
There are plenty of pets apps out there, but I wanted one that is easy to use for keeping basic pet information by having an option to taking photos of vet shots, vet instructions, licenses, and food vs entering them in manually.

Intended User

App for cats and dog owners.

Features

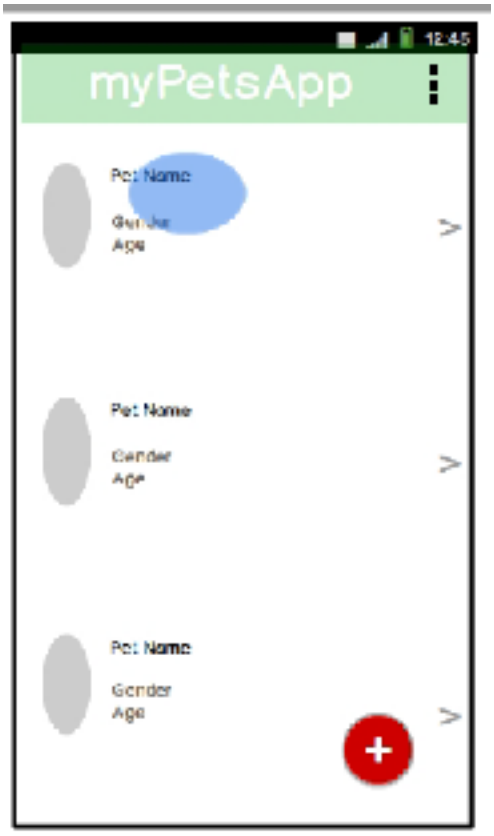
List the main features of your app. For example:

- Saves information
- Takes pictures
- Other features like that

* Saves information on pets and pet's related health information.
* Takes pictures and stores them in pet's information, such as licenses, shots from vets.

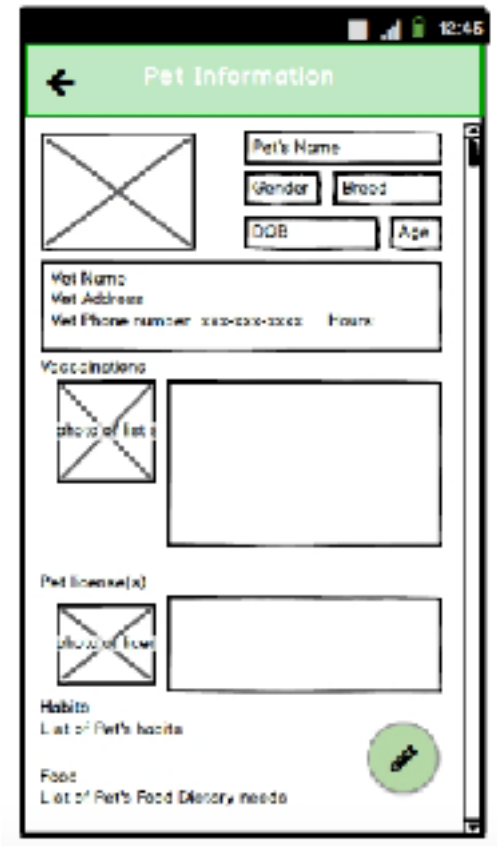
User Interface Mocks

Screen 1



myPetsApp Pets List Screen
List of Pets
Select a pet and will take you to Pet Detail Screen
Floating button will take you into add Pet Detail screen

Screen 2



Detail Screen Display
This screen in Add mode will allow editing and save and cancel button will show up when in edit mode.
This screen when coming from selection on pet list, this will display in non-edit mode.
The floating button puts an existing pet info into edit-mode and save and cancel button will show.
In edit mode will allow put a picture of list of vaccination from vet as well as pet license(s).

Key Considerations

How will your app handle data persistence?
Build a Content Provider to store data on sqlite.

Describe any corner cases in the UX.

User on detail view:
- Up button -> returns user to App home screen (list of pets)
- Back button -> returns user to previous screen
- Selection on list item with item indicator -> displays detail screen with back button

Describe any libraries you'll be using and share your reasoning for including them.
- Volley

Describe how you will implement Google Play Services.
- Google Analytics -com.google.android.gms:play-services-analytics:9.6.1 - tracking app usage
- Google Maps - com.google.android.gms:play-services-maps:9.8.0 - for future usage.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Create Android project with name myPetsApp
  - min version: 10 target version 23 build tool version 23.0.3
  - create project using master-detail template
- Configure gradle libraries to use latest com.android.support:* libraries.
  - compile 'com.android.support:appcompat-v7:24.2.1'
  - compile 'com.android.support:support-v4:24.2.1'
  - compile 'com.android.support:recyclerview-v7:24.2.1'
  - compile 'com.android.support:design:24.2.1'
- Configure gradle libraries 3rd party
  - volley
  - junit

- Create package - com.plan9llc.mypetsapp in both main and test code base.

Task 2: Design schema and implement database

- Create schema for database
- Create tables in Sqllite

Task 3: Implement Content Provider

- Create Content Provider, DbHelper and Contract classes
- Create unit test

Task 4: Implement UI for Each Activity and Fragment

- Create App Widget Display any pet birthday within 30 days.
- MainActivity - PetsListActivity (Task 4)
    - contains a list of pets, with (optional picture), pets name (Task 6)
    - contains List layout that can navigate to PetDetailActivity (Task 6)
    - user has ability to add a pet info from this screen. (Task 6)
    - Use Loader loading data backed by a ContentProvider
- PetDetailActivity (Task 4)
    - PetDetailFragment will have all layouts listed below. (Task 7)
        - layout of image that has picture or default image.
        - layout of texts that has pet name, dob, age, gender, habits, vet name, address, phone number, lists of shots with dates or image, licenses, food intake
        - user has ability to edit or delete a pet info from here.
        - Use Loader loading data backed by a ContentProvider

Task 5: Google play services, build variant, error handling.

Describe the next task. For example, “Implement Google Play Services,” or “Handle Error Cases,” or “Create Build Variant.”

- Configure google play services in gradle build
    - google analytics
    - google map

- Implement google play services google analytics
- Create Build Variant debug and release
- Handle Database save or edit errors, display to user data was not saved due to error,

Task 6: Layout and Actions for PetsListActivity

- Create the List layout for pets list
    - image of pet
    - pet name
- floating action button to add pet info.
- Adding a pet info will display the PetDetailActivity in add mode with save and cancel button. User be able to take photos of documents to put into Pet info. In adding or editing vaccinations use autocomplete (using search with asynctask)

Task 7: Layout and Actions for PetsDetailActivity and PetDetailFragment

- Create layout for PetDetailFragment
    - Image of pet or default image
    - tayout of texts that has pet name, dob, age, gender, habits, vet name, address, phone number, lists of shots with dates or image, licenses, food intake

- Edit button on action bar.
- Edit action will put all fields in editable mode and image to be replaced, by another photo or default.
- Delete button at bottom of layout in red, add confirmation button to proceed with delete or cancel.
- User be able to scroll on screen
- Back button to navigate back to list screen.
- Up button navigates back to App home screen which is the list screen.