dog

_id	INT PK
name	TEXT
breed	TEXT
sex	TEXT
age	TEXT
size	TEXT
desc	TEXT
mix	INT
hasShots	INT
altered	INT
housetrained	INT
specialNeeds	INT
noDogs	INT
noCats	INT

breed

_id	INT PK
name	TEXT
desc	TEXT

photo

_id	INT PK
dog_id	INT FK
uri	TEXT

doghouse

_id	INT PK
dog_id	INT FK

```java
public class Photo {
    private int _id;
    private int dog_id;
    private String uri;

    Photo(int _id, int dog_id, String uri) {
        this._id = _id;
        this.dog_id = dog_id;
        this.uri = uri;
    }

    getters and setters for all attributes;
}
```

```java
public class Breed {
    private int _id;
    private String name, desc;

    Breed(int _id, String name, String desc) {
        this._id = _id;
        this.name = name;
        this.desc = desc;
    }
    getters and setters for all attributes;
}
```

```java
public class Dog {
    private int _id, mix, hasShots, altered, housetrained, specialNeeds, noDogs, noCats;
    private String name, breed, sex, age, size, desc;

    Dog(int _id, String name, String breed, String sex, String age, String size, String desc,
            int mix, int hasShots, int altered, int housetrained, int specialNeeds, int noDogs, int noCats) {
    Text for (attribute : attributes) { this.attribute = attribute; }
        getters & setters for all attributes;
    }
}
```

```java
public class Doghouse {
    private int _id;
    private dog[ ] doghouse;

    Doghouse(int _id) {
        this._id = _id;
        this.doghouse = doghouse;
    }
    public addDog(int dog_id) {
        doghouse.add(dog_id);
    }
    public removeDog(int dog_id) {
        doghouse.remove(dog_id)
    }
    public cleanHouse() {
        doghouse.remove(*);
    }
}
```

MainActivity considerations:

- PetFinder API - conditional call to populate database onCreate
- mixBreeds - method to concatenate multiple breed.name into dog.breed
- search method

UX/UI: on open, user is greeted by vertically scrollable list of thumbnails accompanied by dog name, age, gender, breed and brief description. Clicking on a dog's picture or any associated text will go to detail page for dog. Clicking the plus button will add the dog to the "doghouse" (cart). The cart may be accessed via the FAB from any page.

Search functionality may have an abbreviated presence on main activity page (a spinner of breed, age, size, gender? and / or ability to link to advanced search activity.

"Checkout" can be performed from the doghouse as can removal of dogs from the doghouse

The search and doghouse pages will require a button to return to the main activity (browsing) which will display records in _id order or perhaps randomly.

Title & either search field or button here

dog photo	**Dog.name** age, gender, breed Lorem ipsum dolor sit Fido dog description blurb truncated here [+]
puppy mug	**Dog.name** age, gender, breed Lorem ipsum dolor sit Fido dog description blurb truncated here [+]
religion is a smile on a dog	**Dog.name** age, gender, breed Lorem ipsum dolor sit Fido dog desc blurb truncate