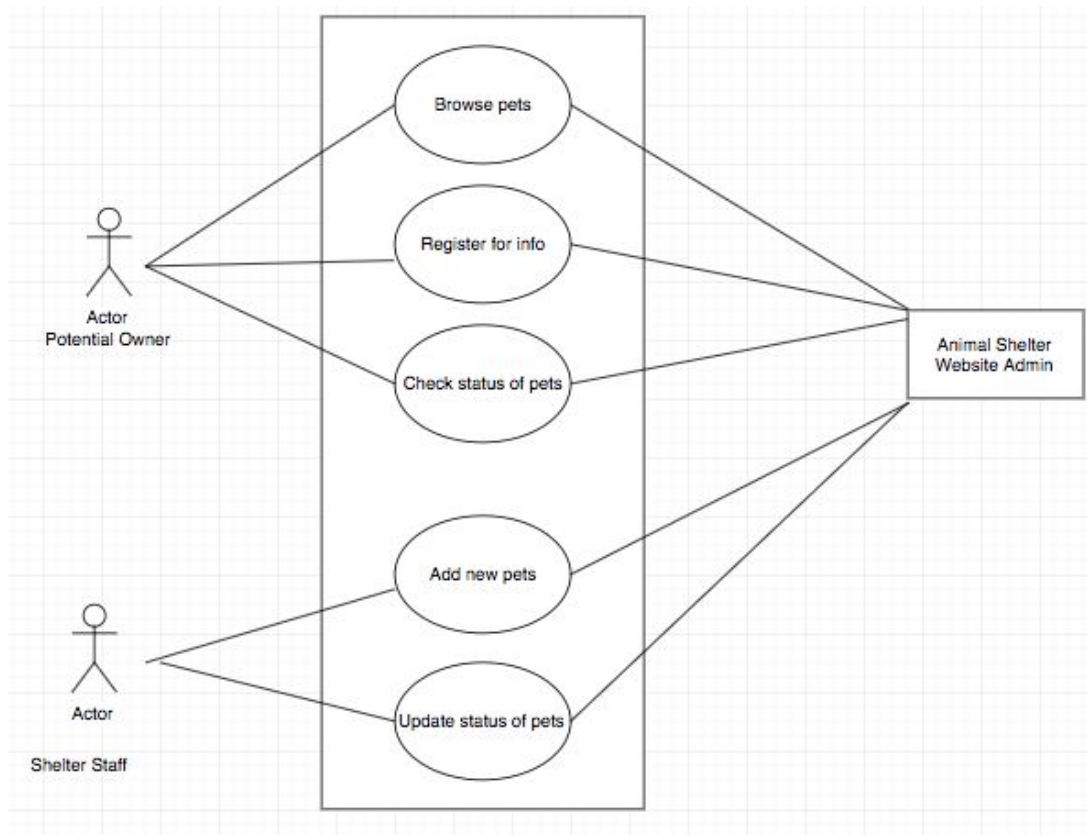


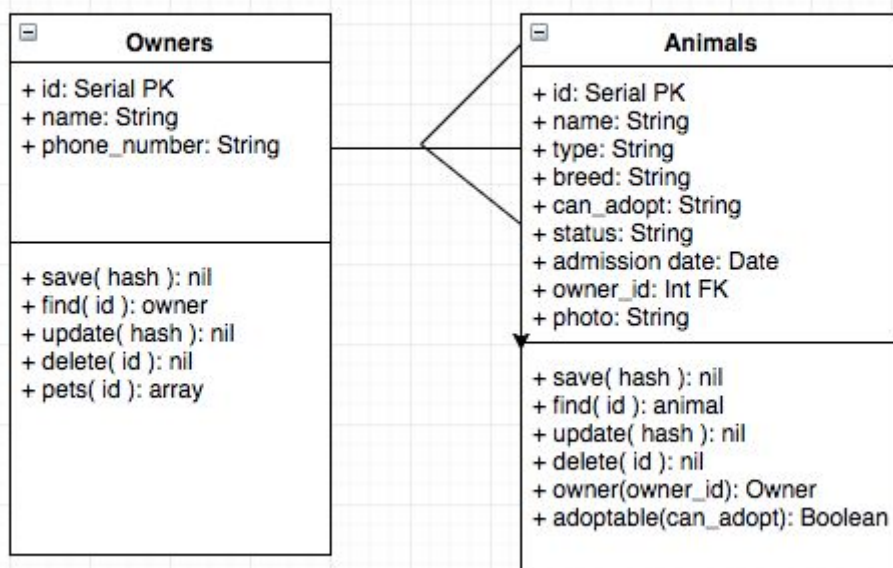
PDA: Alice Rees E15 - Analysis and Design

A.D 1 A Use Case Diagram



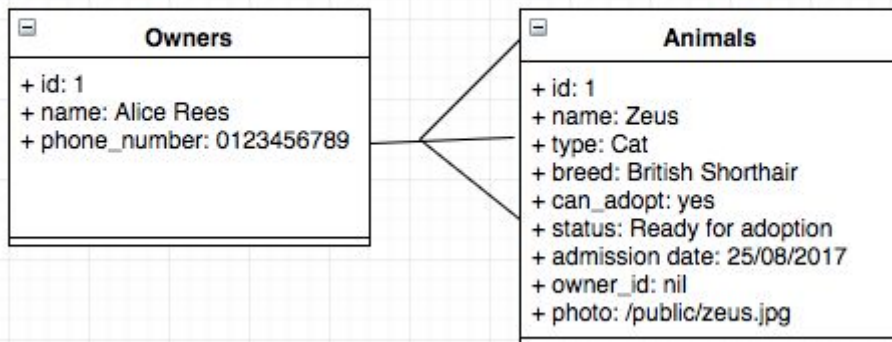
A.D 2 A Class Diagram

Animal Shelter Class Diagram

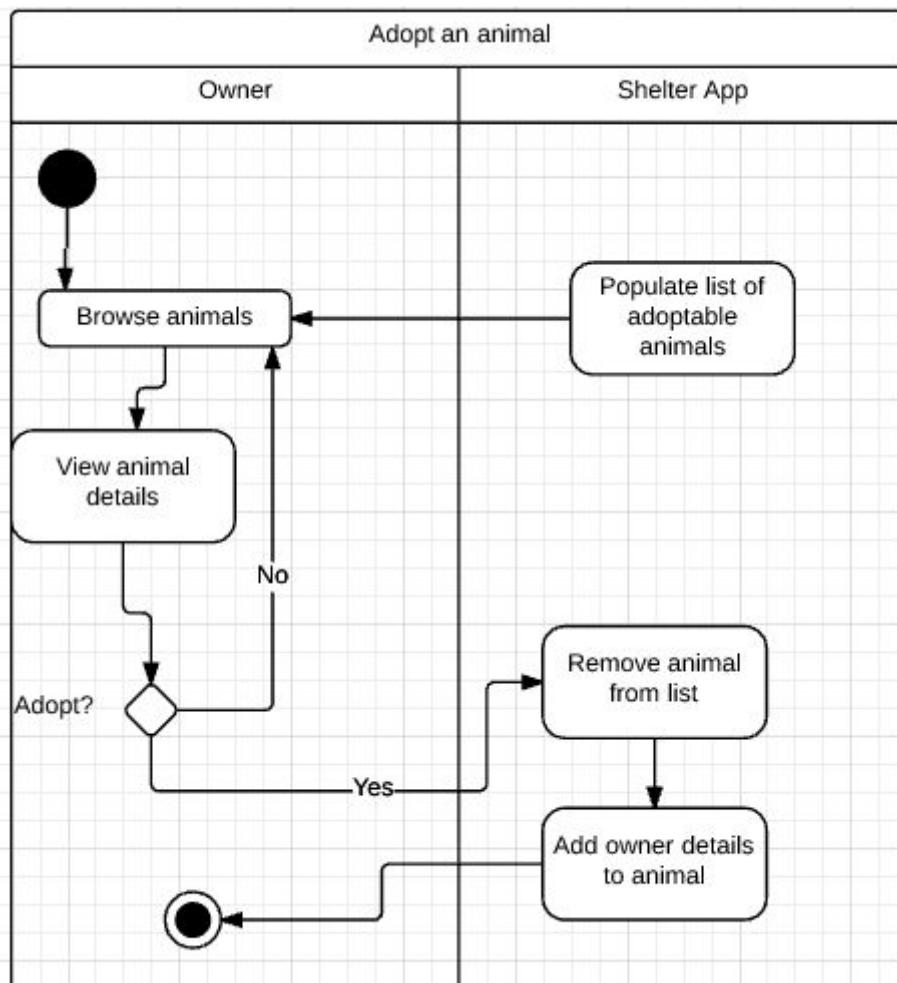


A.D 3 An Object Diagram

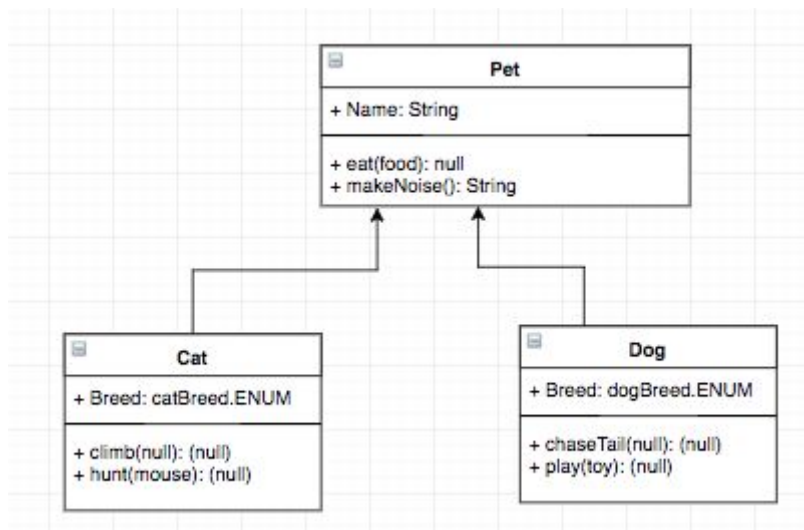
Animal Shelter Object Diagram



A.D 4 An Activity Diagram



A.D 5 Inheritance Diagram



A.D 6 Implementation Constraints Plan

Topic	Possible Effect of Constraint on Project	Solution
Hardware and Software platforms	The app isn't fully mobile compatible so uptake is limited to desktop PC users only. This limits the target audience and therefore potential sales.	Make better use of CSS to create a mobile friendly experience
Performance Requirements	Some pages have many images which will cause slow loading on slow connections. This is a poor user experience and will discourage uptake with users on lower spec/connection devices, thereby reducing sales.	Ensure images are compressed and pre-cropped to the size they will be displaying at in order to minimise load time.
Persistent Storage and Transactions	In initial stages the app uses local databases only. This means external users cannot persist data, making the app's use very limited. This means it is unsuitable for sale.	Deploy the app to a platform such as Heroku so users can add to the database.
Usability	Pictures can only be uploaded from the back end, so a user who doesn't know how to use FTP wouldn't be able to add images for new pets. This creates a very narrow target audience and makes in unsuitable for many people, thus limiting sales.	Add a front end image uploading page so users can add their own images.
Budget	Project must be developed using only freely available tools so storage space is limited. This means it might not be as well made as competing apps, so	This isn't a concern unless the app outgrows the free storage. If it does, it will have to be monetized in order to pay for additional storage.

	customers may prefer the competition.	
Time Limitations	This project was only given a week for development, meaning not all features could be added. People may be put off by the bare bones nature and hold off from subscribing.	Establish a core Minimum Viable Product and focus on that in the initial time frame.