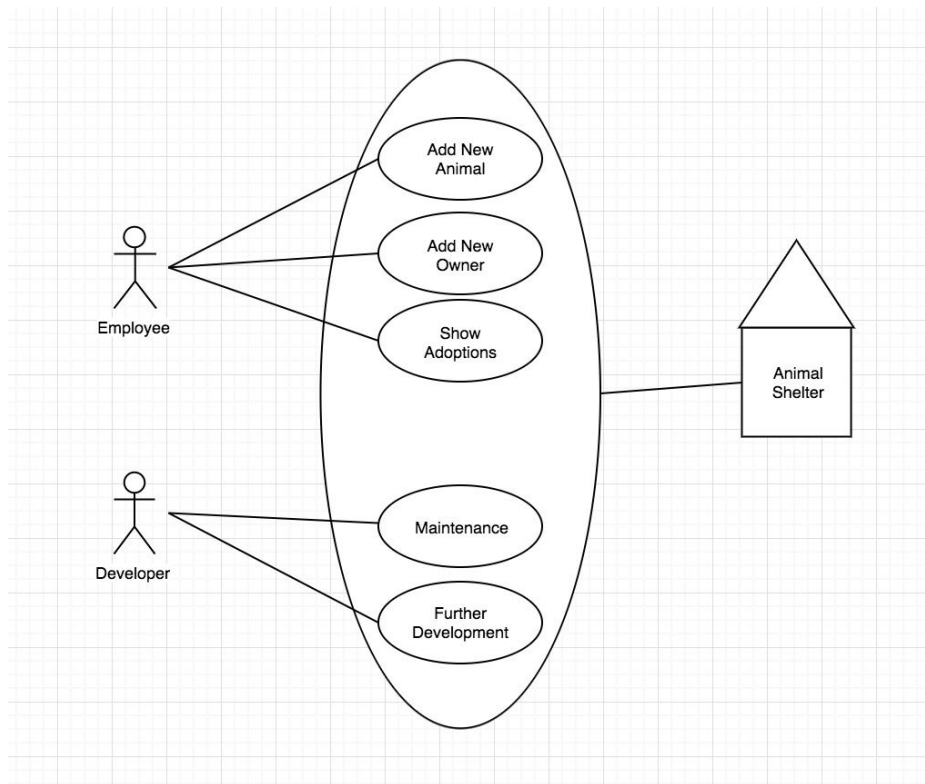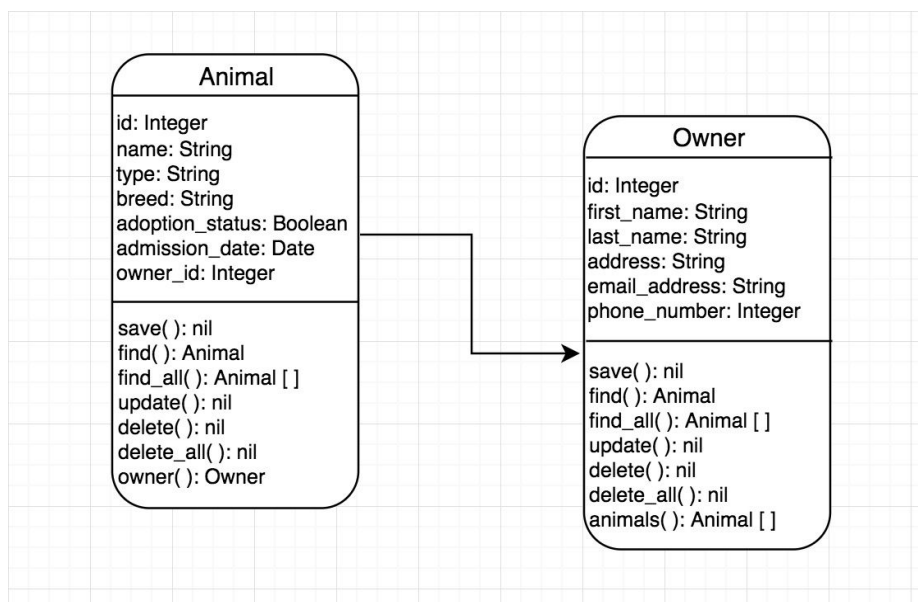**Evidence for Analysis and Design Unit**

Aline Mokfa
Cohort E16
31/Jan/2018
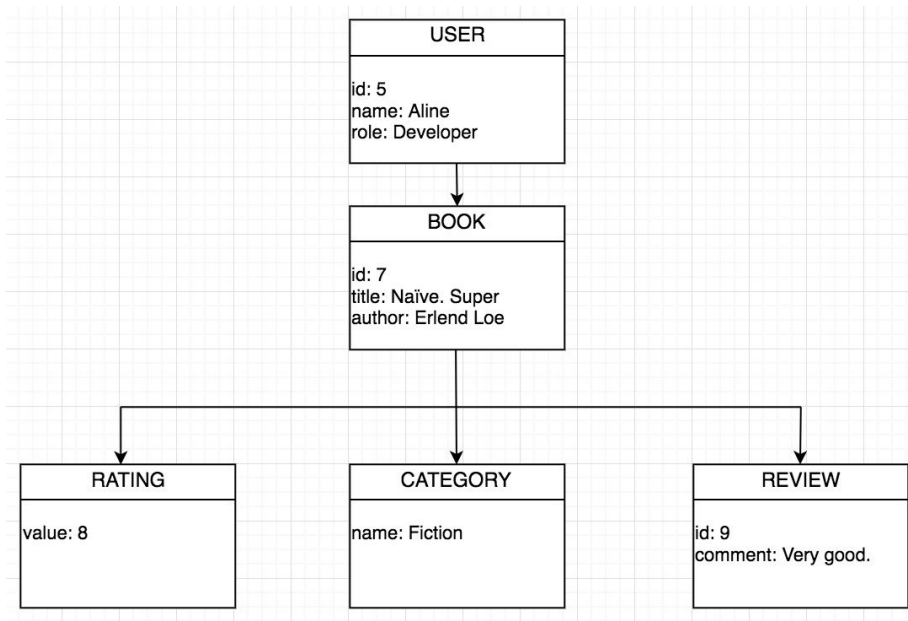
AD - 1 Use case Diagram

AD - 2 Create a Class diagram using your Use case diagram.
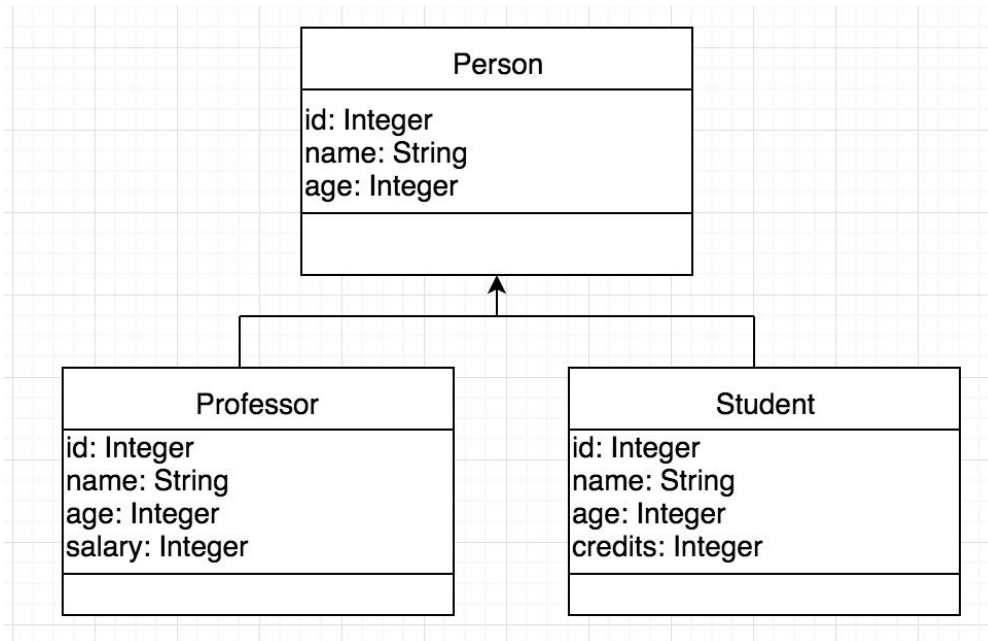
AD - 3 Object diagram

USER
id: 5
name: Aline
role: Developer

BOOK
id: 7
title: Naïve. Super
author: Erlend Loe

RATING
value: 8

CATEGORY
name: Fiction

REVIEW
id: 9
comment: Very good.

AD - 4 Activity diagram

Staff	System	Manager

- Customer goes to Animal Shelter to adopt an animal. Staff takes their details.
- Confirms if customer is registered or not.
- YES
- Confirms adoption.
- NO
- Staff fills in a new registration form for customer.
- Successful adoption message displayed.

AD - 5 Inheritance diagram

AD - 6 Implementations Constraints

	Constraint and possible effect	Solution
Hardware and software platforms	App only displays correctly on desktop which means it does not satisfy mobile users. Additionally, app was only tested on Chrome so other browsers might not display app properly either.	Use a responsive design, provide fallbacks, use media queries, etc.
Performance requirements	App has been deployed to Heroku so it can 'go to sleep' after an hour of inactivity. The next user to access any of its resources will have to wait while the app spins up, resulting in a suboptimal user experience.	Set setInterval, use KeepAwake, install the NewRelic Heroku Addon to set up availability monitoring, etc.
Persistent storage and transactions	Images were added to the database as String (url). This means the app relies on those urls being active or the images won't show.	Upload files to S3 in Ruby with Paperclip instead.
Budgets	No budget used.	Project created whilst studying at CodeClan.
Time	Due to the short time frame of one week, some of the extensions were not completed in time.	Search functionality was added after presentation.