Evidence for Analysis and Design Unit.
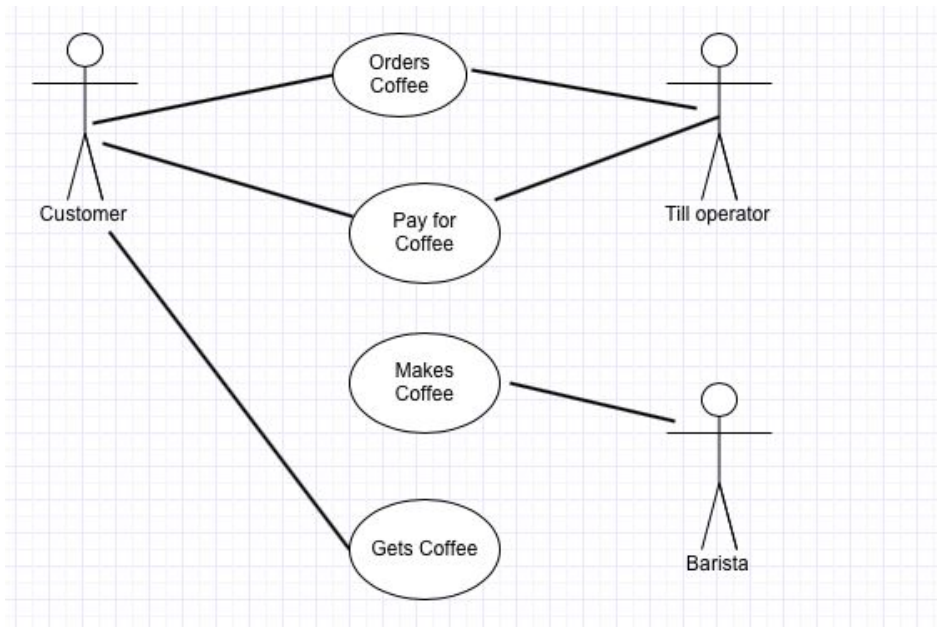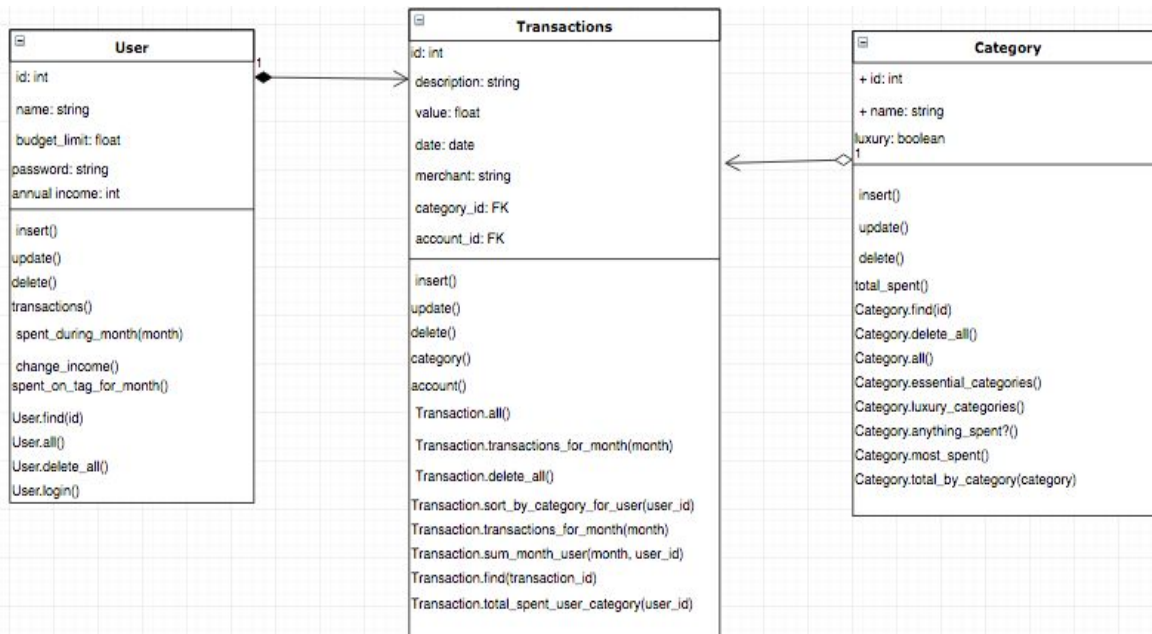
Amy Morrison

Cohort 18
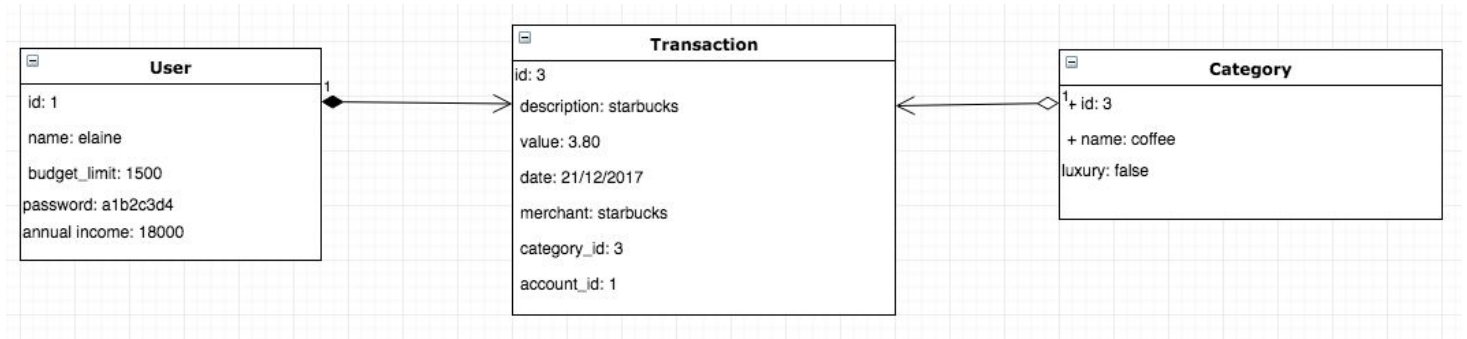
A.D 1: A Use Case Diagram
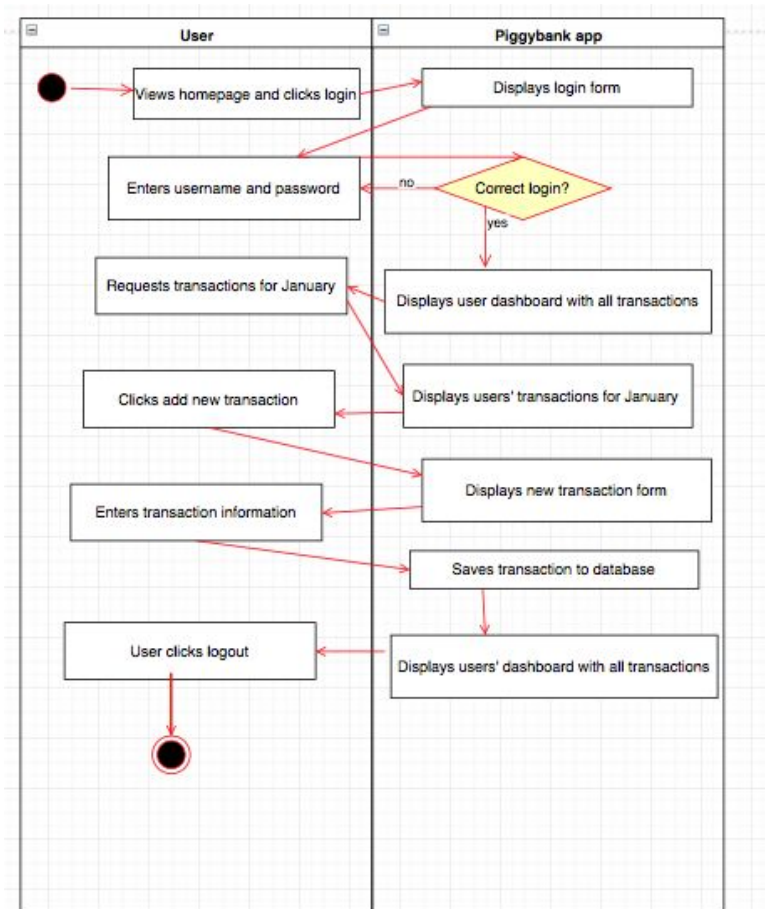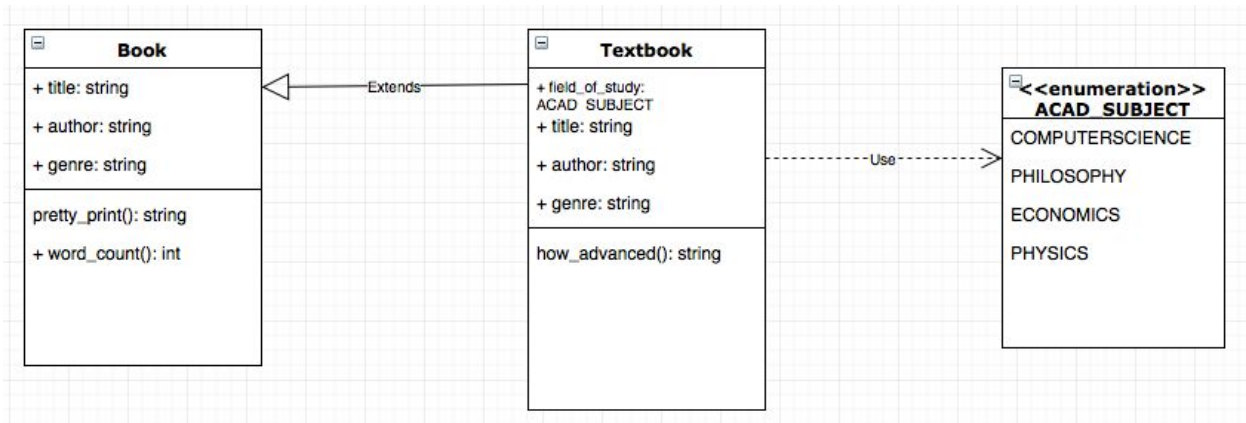

A.D 2 Class Diagram

A.D 3 Object Diagram

User

id: 1

name: elaine

budget_limit: 1500

password: a1b2c3d4

annual income: 18000

Transaction

id: 3

description: starbucks

value: 3.80

date: 21/12/2017

merchant: starbucks

category_id: 3

account_id: 1

Category

+ id: 3

+ name: coffee

luxury: false

A.D 4

User

Views homepage and clicks login

Enters username and password

Requests transactions for January

Clicks add new transaction

Enters transaction information

User clicks logout

Piggybank app

Displays login form

Correct login?

Displays user dashboard with all transactions

Displays users' transactions for January

Displays new transaction form

Saves transaction to database

Displays users' dashboard with all transactions

no

yes

A.D 5

A.D 6

Constraint	Possible Effect of Constraint on Product	Solution
Hardware and software platforms:	Technical limitations (no javascript or authentication) so there is a risk of a static site and functionality not following norms.	Use embedded ruby. Reduce functionality.
Performance requirements	Browser compatibility	Test cross-browser compatibility. Accept the lack of date display on forms on certain browsers.
Persistent storage and transactions	User data and transactions should be persistent	Use heroku for hosting and Heroku Postgresql
Budgets	N/A	N/A
Time limitations	7 days	Use MoSCow and Trello to ensure MVP is prioritised and met, before adding additional functionality