

Evidence for Project Unit - PDA Report

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Cohort E17
Oct. 2017 to Feb. 2018

Week 2

I.T 5

Use of an array in a program

The screenshot shows a terminal window with two tabs: 'PDA_spec.rb' and 'PDA.rb'. The 'PDA_spec.rb' tab contains Ruby test code for a 'TestPDA' class. The 'PDA.rb' tab shows the output of running the spec file.

```
PDA_spec.rb
require 'minitest/autorun'
require 'minitest/rg'
require_relative '../PDA'

class TestPDA < Minitest::Test

  def setup
    @pet_shop = {
      name: "Camelot of Pets",
      pets: [
        { name: "Sir Percy",
          pet_type: :cat,
          breed: "British Shorthair",
          price: 500
        },
        {
          name: "King Bagdemagus",
          pet_type: :cat,
          breed: "British Shorthair",
          price: 500
        }
      ]
    }
  end

  def test_all_pets_by_breed_found
    pets = pets_by_breed(@pet_shop, "British Shorthair")
    assert_equal(2, pets.count)
  end
}

PDA.rb
^
PDA_spec.rb:23: syntax error, unexpected '}', expecting keyword_end
  ^
PDA_spec.rb:53: syntax error, unexpected end-of-input, expecting keyword_end
[→ specs git:(master) ✘ ruby PDA_spec.rb
Run options: --seed 58224

# Running:

.

Finished in 0.000868s, 1152.5278 runs/s, 1152.5278 assertions/s.

1 runs, 1 assertions, 0 failures, 0 errors, 0 skips
[→ specs git:(master) ✘ ruby PDA_spec.rb
Run options: --seed 41887

# Running:

.

Finished in 0.000934s, 1071.1822 runs/s, 1071.1822 assertions/s.

1 runs, 1 assertions, 0 failures, 0 errors, 0 skips
[→ specs git:(master) ✘
```

The screenshot shows a code editor with two tabs: 'PDA_spec.rb' and 'PDA.rb'. The 'PDA_spec.rb' tab contains a test for a 'pets_by_breed' method. The 'PDA.rb' tab shows the implementation of this method.

```
PDA_spec.rb
def pets_by_breed(shop_name, breed)
  pets_by_breed = []
  for pet in shop_name[:pets]
    if pet[:breed] == breed
      pets_by_breed.push(pet)
    end
  end
  return pets_by_breed
end

PDA.rb

```

I.T. 6

Use of a hash in a program

```
PDA_spec.rb          PDA.rb

require 'minitest/autorun'
require 'minitest/rg'
require_relative '../PDA'

class TestPDA < Minitest::Test

  def setup
    @pet_shop = {
      name: "Camelot of Pets",
      pets: [
        { name: "Sir Percy",
          pet_type: :cat,
          breed: "British Shorthair",
          price: 500
        },
        {
          name: "King Bagdemagus",
          pet_type: :cat,
          breed: "British Shorthair",
          price: 500
        }
      ]
    }
  end
end
```

```
def find_pet_by_name(shop_name, pet_name)
  for pet in shop_name[:pets]
    if pet[:name] == pet_name
      return pet
    end
  end
  return nil
end
```

```
PDA_spec.rb          PDA.rb

def test_find_pet_by_name_returns_pet
  pet = find_pet_by_name(@pet_shop, "Sir Percy")
  assert_equal("Sir Percy", pet[:name])
end

def test_find_pet_by_name_returns_nil
  pet = find_pet_by_name(@pet_shop, "Fred")
  assert_nil(pet)
end
```

```
specs — user@192 — ..omework/specs — -zsh — 79x26
^
PDA_spec.rb:23: syntax error, unexpected }', expecting keyword_end
  ^
PDA_spec.rb:53: syntax error, unexpected end-of-input, expecting keyword_end
→ specs git:(master) ✘ ruby PDA_spec.rb
Run options: --seed 58224

# Running:

.

Finished in 0.000868s, 1152.5278 runs/s, 1152.5278 assertions/s.

1 runs, 1 assertions, 0 failures, 0 errors, 0 skips
→ specs git:(master) ✘ ruby PDA_spec.rb
Run options: --seed 41887

# Running:

.

Finished in 0.000934s, 1071.1822 runs/s, 1071.1822 assertions/s.

1 runs, 1 assertions, 0 failures, 0 errors, 0 skips
→ specs git:(master) ✘
```

Week 3

I.T 3

Searching Data in a program

```
require('pry-bybug')
require('pp')
require_relative('models/album.rb')
require_relative('models/artist.rb')

Album.delete
Artist.delete

artist_1 = Artist.new({'name' => 'Pink I
artist_1.save()

album_1 = Album.new(
  { 'title' => 'Dark Side of the Moon',
    'genre' => 'Rock',
    'artist_id' => artist_1.id
  }
)

album_2 = Album.new(
  { 'title' => 'The Wall',
    'genre' => 'Rock',
    'artist_id' => artist_1.id
  }
)

album_1.save()
album_2.save()
artists = Artist.all()
```

```
4
5   class Album
6
7     attr_reader :id
8     attr_accessor :title, :genre, :artist_id
9
10    def initialize (info)
11      @title = info['title']
12      @genre = info['genre']
13      @id = info['id'].to_i if info['id']
14      @artist_id = info['artist_id'].
15    end
16
17    def save
18      sql = "INSERT INTO albums (title, genre) VALUES ($1, $2)"
19      values = [@title, @genre]
20      @id = SqlRunner.run(sql, values)[0]['id'].to_i
21    end
22
23    def self.delete
24      sql = "DELETE FROM albums"
25      SqlRunner.run(sql)
26    end
27
28    def self.all
29      sql = "SELECT * FROM albums"
30      albums = SqlRunner.run(sql)
31      return albums.map { |album_hash| Album.new(album_
32    end
33
```

```
33
34    def update()
35      sql = "UPDATE albums SET (title, genre) = ($1, $2) WHERE id = $3"
36      values = [@title, @genre, @id]
37      SqlRunner.run(sql, values)
38    end
39
40    def find()
41      sql = "SELECT * FROM albums WHERE lower(title) = lower($1)"
42      values = [@title]
43      SqlRunner.run(sql, values)
44    end
45
46    def artist()
47      sql = "SELECT * FROM artists WHERE id = $1"
48      values = [@artist_id]
49      artist = SqlRunner.run(sql, values)
50      return artist.map { |artist_hash| Artist.new(a
51    end
52
53    def delete()
54      sql = "DELETE FROM albums WHERE id = $1"
55      values = [@id]
56      SqlRunner.run(sql, values)
57    end
58
59
60  end
61
```

I.T 4

Sorting Data in a program

```
pets = [
  {
    name: "Sir Percy",
    pet_type: :cat,
    breed: "British Shorthair",
    price: 500
  },
  {
    name: "King Bagdemagus",
    pet_type: :cat,
    breed: "British Shorthair",
    price: 500
  },
  {
    name: "Sir Lancelot",
    pet_type: :dog,
    breed: "Pomsky",
    price: 1000,
  }
]
```

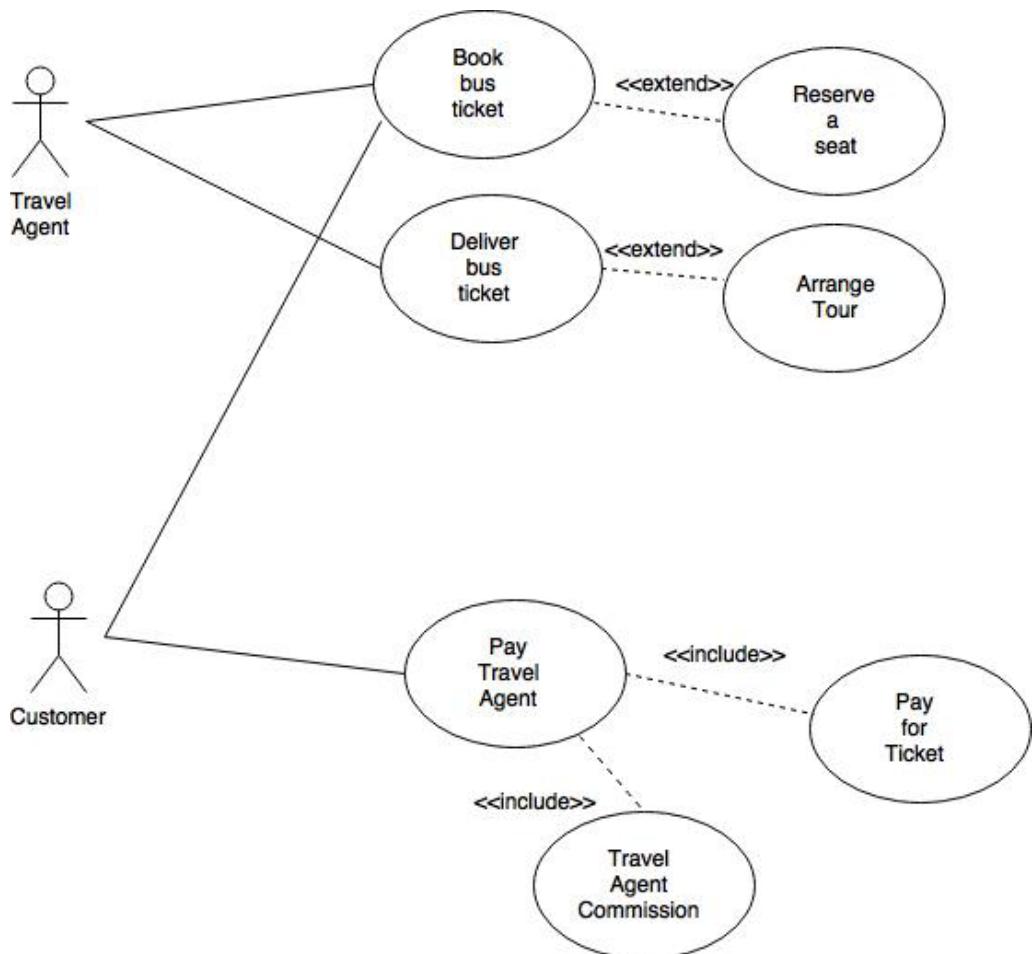
```
pets_name_array = []
pets.each { |pet| pets_name_array << pet[:name]}
p pets_name_array
p pets.map { |pet| pet[:name]}
```

```
..d/start_point .._work/pda/w_3
Last login: Mon Feb  5 14:32:13 on ttys001
↳ start_point git:(master) ✘ cd ../../..
↳ webpack git:(master) ✘ cd ../../..cd
cd: no such file or directory: ../../..cd
↳ webpack git:(master) ✘ cd ../../..
↳ week_13 git:(master) ✘ cd ../../..
↳ codeclean_work cd pda
↳ pda cd w_3
↳ w_3 ruby task3.rb
["Sir Percy", "King Bagdemagus", "Sir Lancelot"]
["Sir Percy", "King Bagdemagus", "Sir Lancelot"]
↳ w_3
```

Week 5

A.D 1

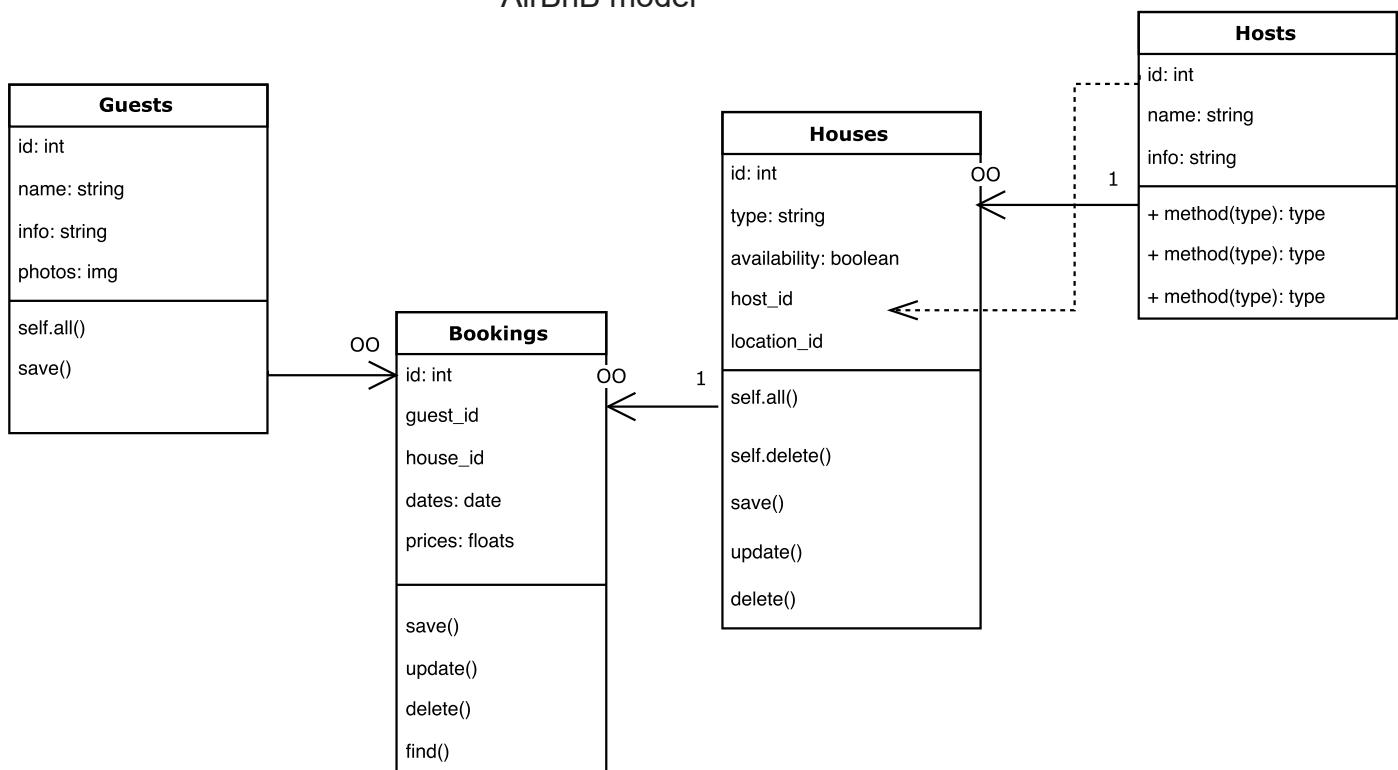
Use Case Diagram



A.D 2

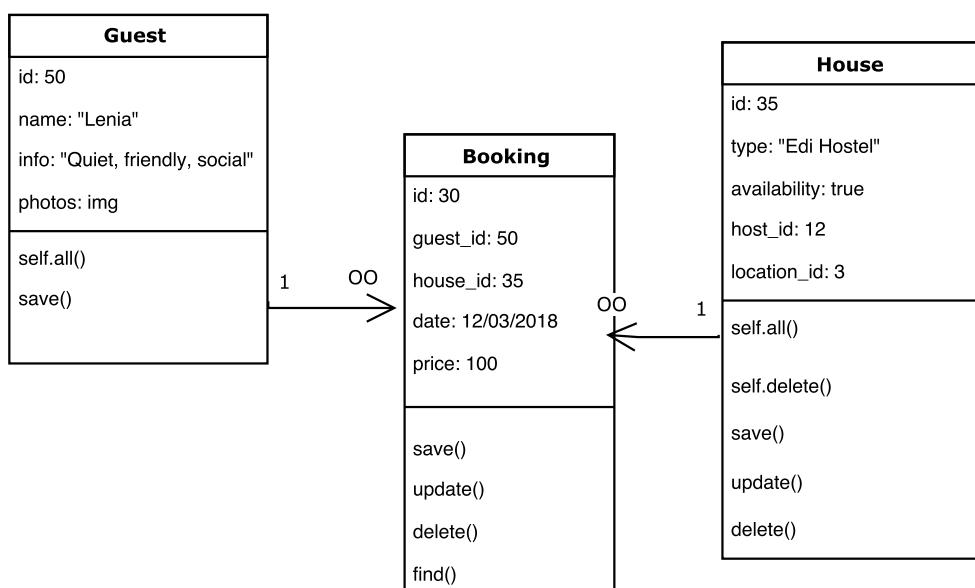
Class Diagram

AirBnB model

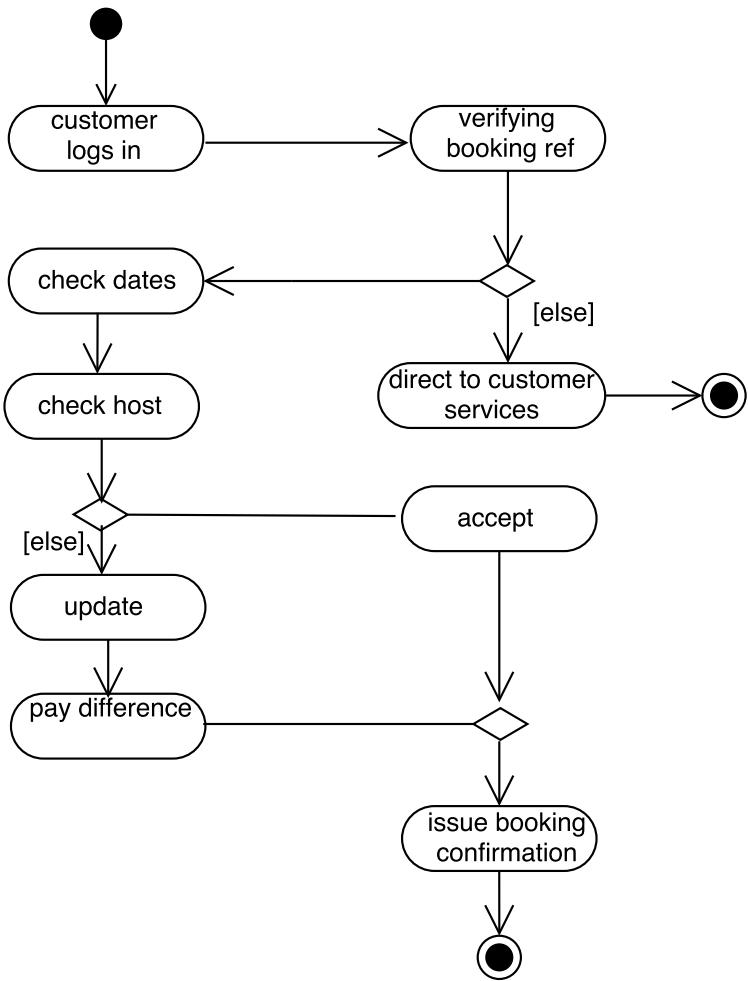


A.D 3

Object Diagram



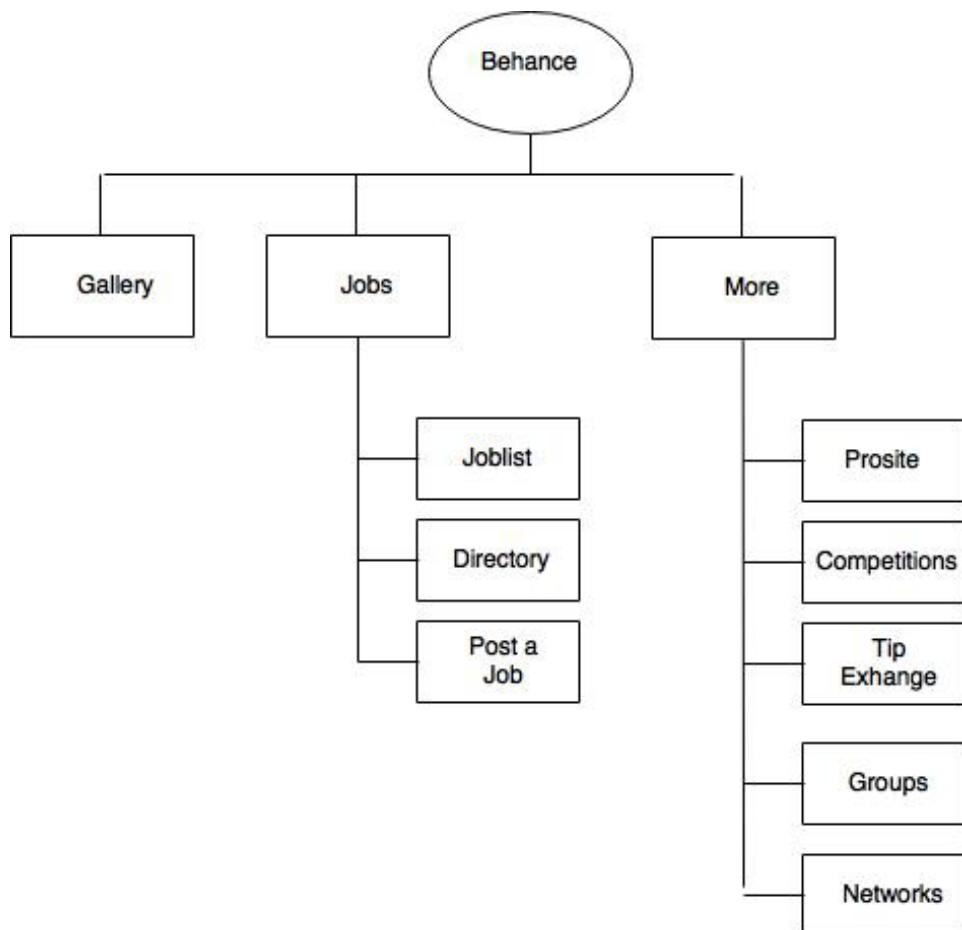
A.D 4
Activity Diagram



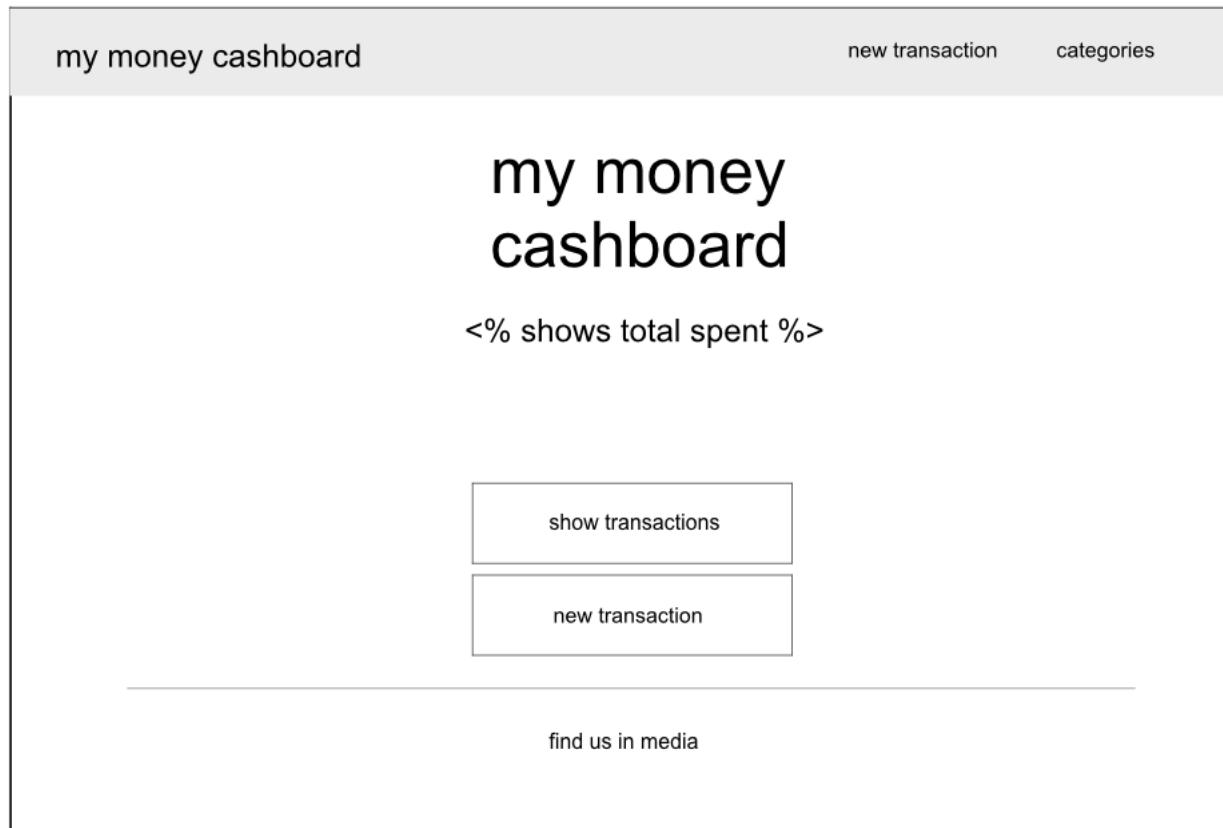
A.D 6
Constraints and Implementations Plan

Topic	Possible Effect of Constraint on Product	Solution
Hardware and software platforms	The application works well only in chrome but not in safari or internet explorer. It will create problems to some users that do use chrome, who might abandon the product	Develop the application to operate in more than one browsers.
Performance requirements	The use of flash in the front end makes the app slow to load and creates conflicts with certain browsers	Remove flash. Find other equivalents.
Persistant storage and transactions	When the application runs for long time and there is an increase in memory usage resulting to high CPU performance.	The amount of storage needs to be increased.
Usability	User testing has shown that a certain amount of users find it difficult or tiring to fill the details form - it is too lengthy.	Re-design of the forms and user journeys.
Budgets	We have to use a JS framework and buy certain components that increase the budget of development	Find open-source or cost-effective solutions.
Time limitations	Prototype delivery is accomplished once a month, client asked to be informed every 3 weeks. This is very intense timeline.	Schedule delivery of the first prototype within the first month; then increase the time between development circles.

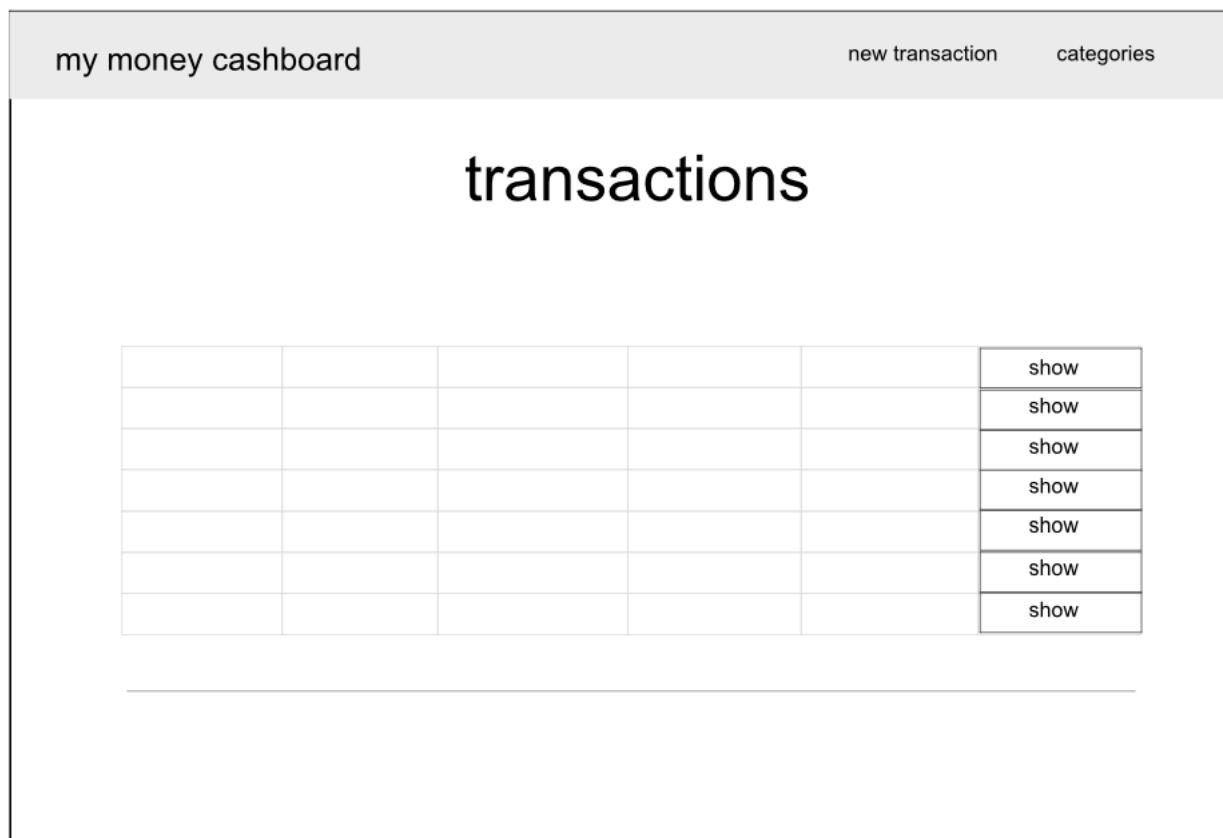
P 5
User Sitemap



P 6
Wireframes



P 6
Wireframes



P 10
Pseudocode

```
function makeACollectionOfPijamas(){
    //create an empty array of pijamas;
    //create a pijama object;
    //create an instance of pijama object;
    //create another instance of pijama object;
    //push the two instances of pijama objects into the array;
    //iterate on the array of pijamas to print(console.log)the pijamas instances;
    //end;
}
```

P 13

User Input : Purchase

MoCa Money Cashboard

New Transaction Transactions Categories Shops

new transaction

Transaction Title:	shoes
Price:	Price Please fill in this field.
Date:	dd/mm/yyyy
Category:	food_drinks
Shop:	Devils Advocate

Save

MoCa Money Cashboard

New Transaction Transactions Categories Shops

new transaction

Transaction Title:	shoes
Price:	60.00
Date:	25/01/2018
Category:	cloths
Shop:	Shoe

Save

My expenses

3313.0

transactions

Title	Price	Date	Category	Shop	Edit
new shoes	60.0	2017-01-12	cloths	Shoe	Edit
weekend_grosseries	40.0	2017-01-13	grosseries	Tesco	Edit
tickets_london	80.0	2017-01-14	transport	Train Station	Edit
coffee	3.0	2017-01-14	food_drinks	Shoe	Edit
cinema	10.0	2017-01-14	entertainment	Cameo	Edit
I bought everything	3000.0	2017-12-01	food_drinks	Tesco	Edit
shoes	40.0	2017-12-01	personal	Shoe	Edit
food	20.0	2017-12-06	food_drinks	Tesco	Edit
shoes	60.0	2018-01-25	cloths	Shoe	Edit

[Add new Transaction](#)

dd/mm/yyyy

[search by date](#)

P 14

Data Input: Categories

new transaction

Transaction Title:	shoes
Price:	60.00
Date:	25/01/2018
Category:	cloths
Shop:	Shoe

[Save](#)

food_drinks

sum: 3023.0

grosseries

sum: 40.0

entertainment

sum: 10.0

cloths

sum: 120.0

transport

sum: 80.0

entertainment total: 10.0£

limit : 300.0 £

title: cinema - price: 10.0£ - date: 2017-01-14

P 15

Data output: search by date

MoCa Money Cashboard

New Transaction Transactions Categories Shops

transactions

Title	Price	Date	Category	Shop	Edit
new shoes	60.0	2017-01-12	cloths	Shoe	Edit
weekend_grosseries	40.0	2017-01-13	grosseries	Tesco	Edit
tickets_london	80.0	2017-01-14	transport	Train Station	Edit
coffee	3.0	2017-01-14	food_drinks	Shoe	Edit
cinema	10.0	2017-01-14	entertainment	Cameo	Edit
I bought everything	3000.0	2017-12-01	food_drinks	Tesco	Edit
shoes	40.0	2017-12-01	personal	Shoe	Edit
food	20.0	2017-12-06	food_drinks	Tesco	Edit
shoes	60.0	2018-01-25	cloths	Shoe	Edit

Add new Transaction

dd/mm/yyyy

Please fill in this field.

! Please fill in this field.

search by date

MoCa Money Cashboard

New Transaction Transactions Categories Shops

transactions

Title	Price	Date	Category	Shop	Edit
new shoes	60.0	2017-01-12	cloths	Shoe	Edit
weekend_grosseries	40.0	2017-01-13	grosseries	Tesco	Edit
tickets_london	80.0	2017-01-14	transport	Train Station	Edit
coffee	3.0	2017-01-14	food_drinks	Shoe	Edit
cinema	10.0	2017-01-14	entertainment	Cameo	Edit
I bought everything	3000.0	2017-12-01	food_drinks	Tesco	Edit
shoes	40.0	2017-12-01	personal	Shoe	Edit
food	20.0	2017-12-06	food_drinks	Tesco	Edit
shoes	60.0	2018-01-25	cloths	Shoe	Edit

Add new Transaction

14/01/2017

search by date

purchases

title: tickets_london - price: 80.0£ - date: 2017-01-14

title: coffee - price: 3.0£ - date: 2017-01-14

title: cinema - price: 10.0£ - date: 2017-01-14

Week 6

I.T. 7

Polymorphism

The screenshot shows a code editor with two tabs: 'InternetRadio.java' and 'Network.java'. The 'InternetRadio.java' tab is active, displaying the following code:

```
InternetRadio.java
public class InternetRadio implements IConnect, ITune {
    public String connect(String data) {
        return data+ " connected";
    }
    public String tune(String station) {
        return "Tuning to: " + station;
    }
}
```

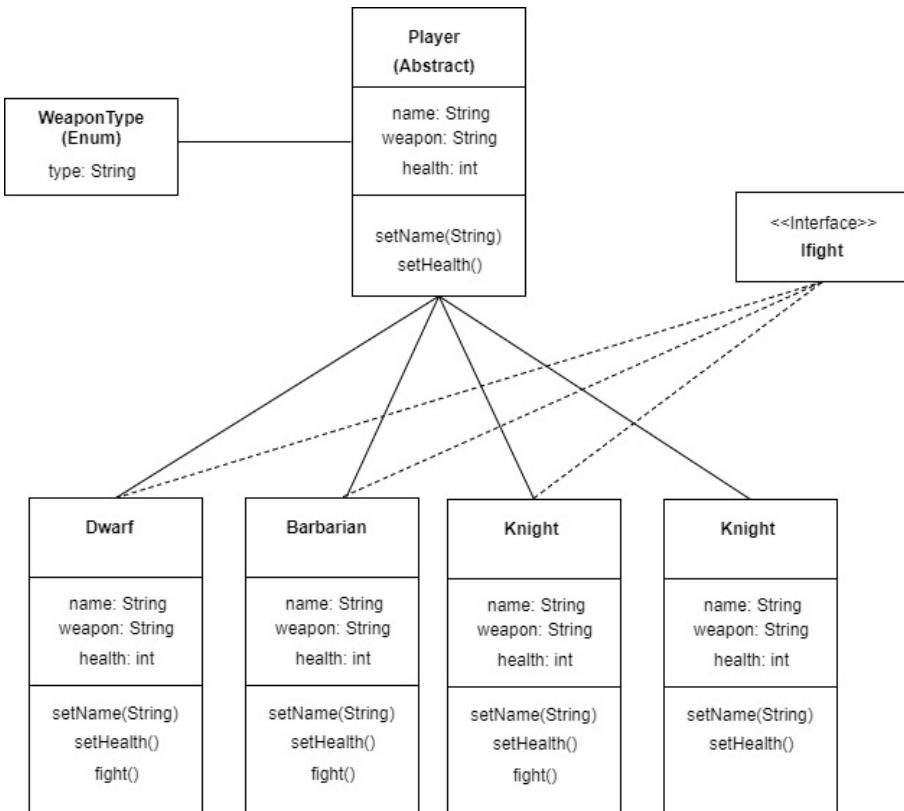
The 'Network.java' tab is visible in the background, displaying the following code:

```
Network.java
import java.util.ArrayList;
public class Network {
    public int maxNumber;
    public ArrayList<IConnect> devices;
    public Network(){
        this.maxNumber = 10;
        this.devices = new ArrayList<> ();
    }
    public void connect(IConnect device){
        if (numberOfDevicesLeft () > 0)
            devices.add(device);
    }
    public int devicesConnected(){
        return devices.size();
    }
    public int numberOfDevicesLeft(){
        maxNumber -= devicesConnected ();
        return maxNumber;
    }
}
```

Week 9

A.D. 5

Inheritance diagram



I.T. 1

Encapsulation

```
Enemy_1.java
public class Enemy_1 {

    private String name;
    private int attack;
    private int health;

    public Enemy_1(String name, int attack, int health){
        this.name = name;
        this.attack = attack;
        this.health = health;
    }

    public String getName(String data) {
        return data;
    }

    public int canAttack(int data) {
        return data;
    }

    public int getHealth(int data) {
        return data;
    }
}
```

I.T. 2

Inheritance in a program

Room.java

```
package Hotel.Rooms;

import Guests.Guest;

import java.util.ArrayList;
import java.util.Collection;

public class Room {

    protected int roomNumber;
    protected int rate;
    protected RoomType type;
    protected ArrayList<Guest> guests;

    public Room(int roomNumber, int rate, RoomType type,
ArrayList<Guest> guests){
        this.roomNumber = roomNumber;
        this.rate = rate;
        this.type = type;
        this.guests = guests;
    }

    public int getRoomNumber() {
        return roomNumber;
    }

    public int getRate() {
        return rate;
    }

    public RoomType getRoomType() {
        return this.type;
    }
}
```

DiningRoom.java

```
1 package Hotel.Rooms;
2
3 import Guests.Guest;
4
5 import java.util.ArrayList;
6
7 public class DiningRoom extends Room {
8
9
10    protected String name;
11
12    public DiningRoom(String name, int roomNumber,
13        int rate, RoomType type, ArrayList<Guest> guests) {
14        super (roomNumber, rate, type, guests);
15        this.name = name;
16    }
17
18    public String getName() {
19        return name;
20    }
21
22 }
23
```

Maps

SingleBedroomTest.java

```
package Hotel.Rooms;

import Guests.Guest;

import java.util.ArrayList;

public class SingleBedroom extends Room{
    public SingleBedroom(int roomNumber, int rate,
RoomType type, ArrayList<Guest> guests) {
        super (roomNumber, rate, type, guests);
    }

    public int setDayRate() {
        return (int) (rate*0.9);
    }

    public int setNightRate() {
        return (int) (rate+ rate*0.1);
    }
}
```

SingleBedroom.java

```

Room.java
package Hotel.Rooms;

import Guests.Guest;

import java.util.ArrayList;
import java.util.Collection;

public class Room {

    protected int roomNumber;
    protected int rate;
    protected RoomType type;
    protected ArrayList<Guest> guests;

    public Room(int roomNumber, int rate,
               RoomType type,
               ArrayList<Guest> guests){
        this.roomNumber = roomNumber;
        this.rate = rate;
        this.type = type;
        this.guests = guests;
    }

    public int getRoomNumber() {
        return roomNumber;
    }

    public int getRate() {
        return rate;
    }

    public RoomType getRoomType() {
        return this.type;
    }
}

SingleBedroomTest.java
11  public class SingleBedroomTest {
12
13
14      SingleBedroom singleBedroom;
15      Room room;
16      Guest guest;
17      ArrayList<Guest> guests;
18
19
20      @Before
21      public void before(){
22          guest = new Guest("Mike");
23          ArrayList<Guest> guests = new ArrayList<> ();
24          guests.add(guest);
25          singleBedroom = new SingleBedroom (3,20, RoomType.SINGLE, guests);
26      }
27
28      @Test
29      public void canSetDayRate(){
30          assertEquals(18, singleBedroom.setDayRate ());
31      }
32
33      @Test
34      public void canSetNightRate(){
35          assertEquals(22, singleBedroom.setNightRate ());
36      }
37
38
39
40
SingleBedroom.java

```

P 11 Solo Project

https://github.com/LeniaMarga/project-money_cashboard

Money Cashboard

New Transaction Transactions Categories Shops

my money cashboard

my expenses: 3313.0

my budget: 3000.0

you are -313.0 £ over budget

New
Transaction

All
Transactions

P 12

Solo Project

Planning and Development

money dashboard | Personal | Public

Trello

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Sign Up **Log In**

Fri planning - diagrams - design

- functionality
class diagram
- UX
basic user journeys
- Display Strategy
wireframes/views

Fri - Sat coding set-up

- create folder structure
- functionality
create money dashboard db
- functionality
CRUD for classes
- functionality
test if CRUD functions working

Mo- Tue Project development stage 01 : functionality and display

- functionality
main controller development
- Display Strategy
develop main views for transaction controller
- functionality
develop sum and sum per category methods
- functionality
Refactoring Classes
- Display Strategy
develop additional controllers
- Display Strategy
develop main controller
- Display Strategy
develop main HTML structure (Layout)

Tue -Wed Project development stage 02 : functionality and display

- Display Strategy
main view (home) development
- Display Strategy
functionality
refactoring controllers
- Display Strategy
development of categories display-multiple options
- functionality
development of methods in the classes
- functionality
UX
arrange display flows (HTML) : links between views - user flows
- UX
update user journeys
- Display Strategy
add shop display
- Display Strategy
UX
conclude HTML - classes - CSS

Thu - Views, Flows ai features

- Display Strategy
Add search by date fe functions, controller a
- Display Strategy
UX
add notification mess
- Display Strategy
UX
conclude html/css

money dashboard_01 **Personal** **Private**

Trello

+ Boards **...** **Show Menu**

must have

- a 'new transaction' form that allows user input
- a 'show all transactions' list
- a counter that shows the overall budget and overall expenses
- a 'edit' transaction form with user input
- all form should have date, category and shop fields as drop downs.

Add a card...

should have

- a main view that displays the budget and sum of expenses
- the add transaction in a clear and easily noticeable place
- a view that displays all categories
- a view that displays all shops

Add a card...

could have

- an add category option
- a display expenses per category
- an add shop option
- a display expenses per shop

Add a card...

might have

- a search by date option
- a search by category option
- a combined search option

Add a card...

Add a list...

Week 11

P 18

Testing

LibraryMinilab /src/test/java/LibraryTest

```
11 import org.junit.Before;
12 import org.junit.Test;
13 import static org.junit.Assert.assertEquals;
14
15 public class LibraryTest {
16     Library library;
17     Item item;
18     DVD dvd;
19     Book book;
20
21     @Before
22     public void before(){
23         library = new Library();
24         item = new Item( name: "item");
25         dvd = new DVD( name: "Xmas music");
26         book = new Book( name: "Harry Potter");
27     }
28
29     @Test
30     public void canAddItem(){
31         library.addItem(item);
32         assertEquals( expected: 1, library.countItems());
33     }
34
35     @Test
36     public void canAddItem1(){
37         library.addItem(book);
38         library.addItem(dvd);
39         assertEquals( expected: 2, library.countItems());
40     }
41 }
```

Messages Build

- Information: java: Errors occurred while compiling module 'LibraryMinilab_test'
- Information: javac 1.8.0_152 was used to compile java sources
- Information: 05/02/2018, 19:34 - Compilation completed with 2 errors and 0 warnings in 4s 219ms

/Users/user/codeclan_work/week_6/day_04/LibraryMinilab/src/test/java/LibraryTest.java

- Error:(19, 9) java: cannot find symbol
symbol: variable item
location: class LibraryTest<E>
- Error:(26, 25) java: cannot find symbol
symbol: variable item
location: class LibraryTest<E>

Information: java: /Users/user/codeclan_work/week_6/day_04/LibraryMinilab/src/test/java/LibraryTest.java uses unchecked or unsafe operations.

6: TODO 2: Terminal 0: Messages

Compilation completed with 2 errors and 0 warnings in 4s 219ms (moments ago)

LibraryMinilab /src/test/java/LibraryTest

```
11 import org.junit.Before;
12 import org.junit.Test;
13 import static org.junit.Assert.assertEquals;
14
15 public class LibraryTest {
16     Library library;
17     Item item;
18     DVD dvd;
19     Book book;
20
21     @Before
22     public void before(){
23         library = new Library();
24         item = new Item( name: "item");
25         dvd = new DVD( name: "Xmas music");
26         book = new Book( name: "Harry Potter");
27     }
28
29     @Test
30     public void canAddItem(){
31         library.addItem(item);
32         assertEquals( expected: 1, library.countItems());
33     }
34
35     @Test
36     public void canAddItem1(){
37         library.addItem(book);
38         library.addItem(dvd);
39         assertEquals( expected: 2, library.countItems());
40     }
41
42     @Test
43     public void canAddItem2(){
44         library.addItem(dvd);
45         assertEquals( expected: 1, library.countItems());
46     }
47 }
```

Run All in LibraryMinilab_test

All 3 tests passed - 7ms

All Tests Passed 7ms /Library/Java/JavaVirtualMachines/jdk1.8.0_152.jdk/Contents/Home/bin/java ...

Process finished with exit code 0

4: Run 6: TODO 2: Terminal 0: Messages

Tests Passed: 3 passed (moments ago)

Week 12

P 16

API in use

```

newsModel.js
const NewsModel = function(url){
  this.url = url;
  this.data = [];
  this.onUpdate = null;

}

NewsModel.prototype.showData = function(){
  const request = new XMLHttpRequest();
  request.open("GET", this.url);

  request.addEventListener('load', function(){
    if (request.status != 200) return;
    const jsonString = request.responseText;
    this.data = JSON.parse(jsonString);
    this.onUpdate(this.data.articles);
  }.bind(this));

  request.send();
};

gridView.js
1 var app = function(){
2
3
4   var url = 'https://newsapi.org/v2/top-headlines?' +
5   | | | | 'country=us&' + "apikey=ecaf5a603ef14ada980e8b7bf78b9e5a";
6   // var url1 = "https://restcountries.eu/";
7
8   //setup model
9   const newsModel = new NewsModel(url);
10  var req = new Request(url);
11  fetch(req)
12    .then(function(response) {
13      | | | | console.log(response.json());
14    })
15    // general view
16    const gridViewDiv = document.querySelector("#gridView");
17    const gridView = new GridView(gridViewDiv, newsModel);
18
19    newsModel.showData();
20
21 }
22
23 window.addEventListener('DOMContentLoaded', app);
24

```

Full 'Solo' trailer from 'Star Wars' airs exclusively on 'Good Morning America'

Half of Iranians say 'no' to compulsory veils, a pillar of the 1979 Islamic Revolution

South Africa's ANC to Discuss Zuma's Future Amid Pressure on Him to Quit

The votes are in: Alexa loses her voice but Amazon wins USA TODAY's Ad Meter

Hacking suspect wins extradition appeal

SpaceX Falcon Heavy poised for debut test launch, with Tesla Roadster payload

Salah Abdeslam: Paris suspect attacks 'anti-Muslim bias'

Martin Luther King Jr. Commercial for Ram Trucks Is Swiftly Criticized

All hell breaks loose in Syria after rebels shoot down Russian jet over the weekend

Source	Title	Description	URL
Secretary of State Rex Tillerson said Sunday that selling the sale of oil from crisis-torn Venezuela.	"The Father of Otto Warmbier Will Be Mike Pence's Guest at the Winter Olympics Opening Ceremony"	"Critics say Prince hated the whole idea of using dead artists digitally."	https://www.denverpost.com/2018/02/05/tillerson-venezuela-oil-sale-restrictions/
Joseph Hincks	"Amtrak train on wrong track in deadly crash; it says freight line controls signals"	"A Miami-bound Amtrak train appeared to be on the wrong track of the National Transportation Safety Board."	http://abcnews.go.com/US/amtrak-passenger-train-collides-freight-train-sc-injuries/story?id=52826058
Lorena Blas	"Why Prince fans are bashing Justin Timberlake's Super Bowl halftime performance"	"Democrats on the Committee will be angling to have a 10-page rebuttal memo made public as well."	https://www.usatoday.com/story/life/music/2018/02/06/erlak-super-bowl-halftime-performance/305817002/
Olivia Andruszczak Gazis	"To Counter Russia, US Signals Nuclear Arms Are Back in a Big Way"	"A new nuclear policy issued by the Trump administration is touching off a new kind of nuclear arms race."	https://www.nytimes.com/2018/02/04/us/politics/trump-nuclear-russia.html
Sonaiya Kelley	"Netflix pulls a Beyoncé 'The Cloverfield Paradox' surprise launch on the streaming service tonight"	"Netflix pulls a Beyoncé 'The Cloverfield Paradox' surprise launch on the streaming service tonight"	https://www.latimes.com/entertainment/et-entertainment/flix-pulls-a-beyonce-the-1517791537-htmlstory.html

Week 14

P 1

Team project

LeniaMarga / **bucket_list_lab**
forked from [derkrisz/bucket_list_lab](#)

Code Pull requests 0 Projects 0 Wiki Insights Settings

week 13, day 3 Bucket list lab 07/02 Edit

Add topics

4 commits 1 branch 0 releases 1 contributor

Branch: master New pull request Create new file Upload files Find file Clone or download

This branch is even with derkrisz:master.

Pull request Compare

Author	Commit Message	Date
derkrisz	add selected country to our database	Latest commit ea42afe 7 days ago
client	add selected country to our database	7 days ago
.gitignore	create country dropdown	7 days ago
package-lock.json	create country dropdown	7 days ago
package.json	create country dropdown	7 days ago
server.js	create mongo db	7 days ago

Help people interested in this repository understand your project by adding a README. Add a README

P 2

Team project brief

Bucket List

Create an application to make a 'bucket list' of countries you want to visit:

- Use the rest countries API to get the countries of the world.
- Add countries to a bucket list.
- Persist this list using Mongo.
- Try to split your client code into models and views. Think about the responsibilities of each.

Possible extensions:

- Add a Google Map with markers for countries on the bucket list
- Add more detail to the bucket list items - e.g. landmarks you want to visit or the season you want to visit in. Persist these to Mongo too.
- Style the app

P 3

Project planning

This Trello board is titled "Group Project Planning Brief 2". It contains four main columns: "HTML (views)", "Google Maps", "APIs", and "DB".

- HTML (views)**
 - About page
 - Main Display Page
 - Details Display Page
 - Map Display Page
 - Add a card...
- Google Maps**
 - load the map
 - find the geolocation
 - add a marker in the capital
 - Add a card...
- APIs**
 - populateDropDown() with countries names
 - onClick() on the drop down that collects the event input and feeds it to the API search
 - take the API information after search and populateBucketListDisplay
 - get the API info back and populate map with a marker at the capital
 - Add a card...
- DB**
 - CRUD
 - populateDB()
 - get data back from the database
 - render the data from the database on the display list
 - add button to delete from database()
 - Add a card...

This Trello board is titled "Group Project Planning Brief". It contains four main columns: "must", "should", "could", and "won't".

- must**
 - use the restful countries API
 - have a drop down menu to display countries' names
 - have a bucket list to display each countries name, capital city, population
 - persist the bucket list using Mongo
 - have a main view that the drop down and the bucket list is displayed
 - Add a card...
- should**
 - save and display each selection from the drop down on top of the previous selection in the bucket list
 - enable clicking on each country at the bucket list to display further details
 - have a second view to display details of each country
 - Add a card...
- could**
 - display flag in the second view
 - display map of the country in the second view
 - display capital of the country with a marker in the second view
 - Add a card...
- won't**
 - accommodate user input
 - allow users to add a country
 - allow users to add a location
 - Add a card...

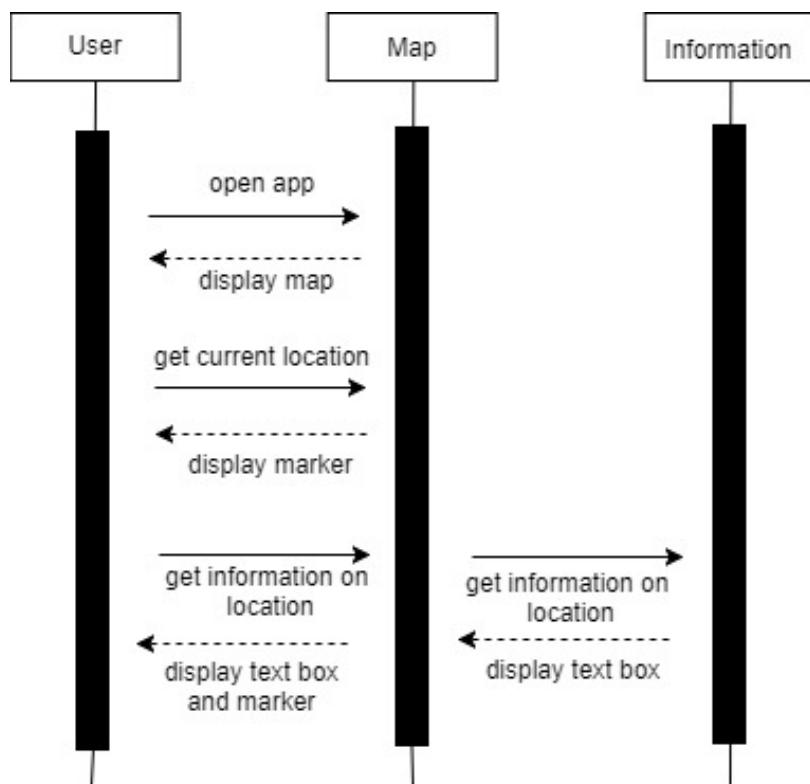
P 4

Acceptance Criteria and Test plan

Acceptance Criteria Plan			
Lane 1	Acceptance Criteria	Expected Result	Outcome
Lane 2	The user should be able to select a list of cities from the drop-down menu to see further details on the city.	The drop-down should correspond to show the cities and enable the user clicking on them. Further details of each city should be displayed onClick (change).	Test Passed
	A map of the selected location should be displayed after selection.	The map should include a marker to signify the centre of the city.	Test Passed
Lane 3	The user can click on the map to see further information at the point of the map that he/she is clicking on.	The map will interact on the clicks with displaying informative text windows.	Test Passed
	The user can add a marker and information on the map at a location of his/her choice.	An empty text box will appear after the new marker is added in the map to host user input.	Test Passed

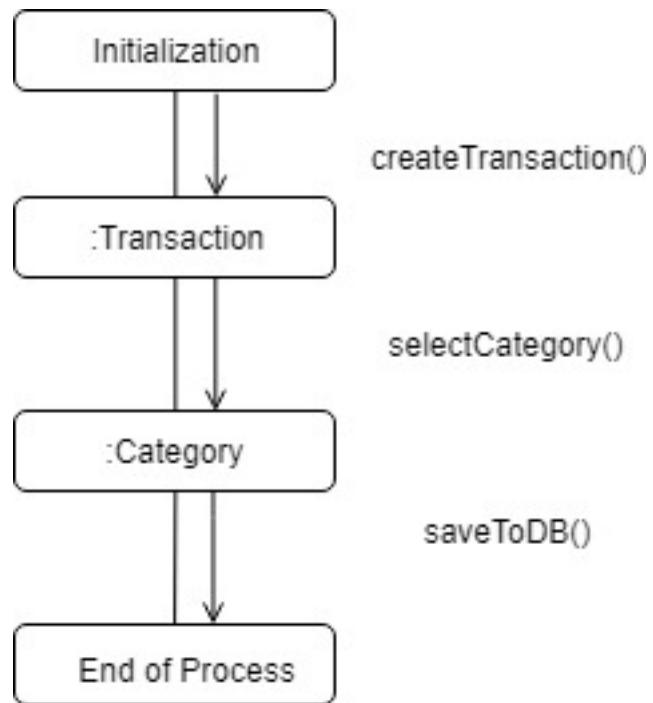
P 7

System Interaction Diagrams



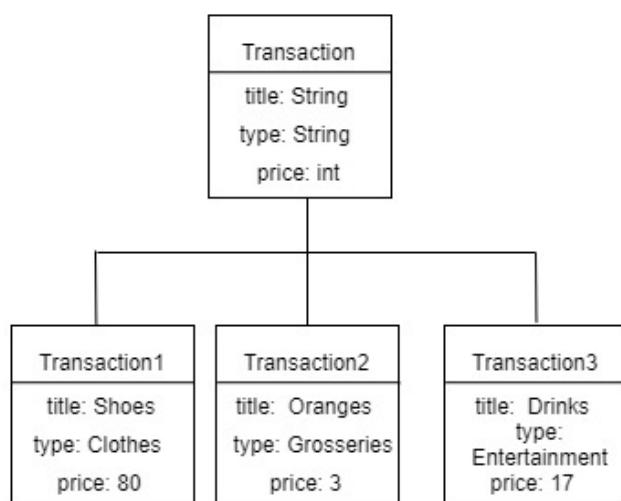
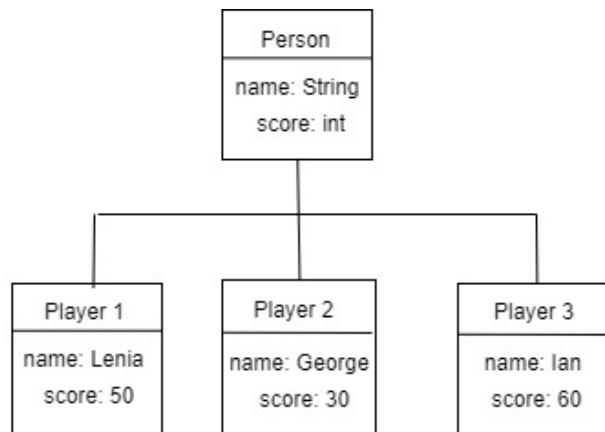
Sequence

Collaboration



P 8

Object and Class Diagrams



P 9

Algorithms

The following algorithm finds the duplicate numbers within a given array of integers, returning a new array containing the duplicates only.

For Each element of the array, it checks first if there is a duplicate or not using the `indexOf()` method. The `indexOf()` returns the first index at which a given element can be found in the array, or -1 if it is not present.

Then, it checks if this value already exists in the result array, so that it is not saved twice. Finally it returns the array with the duplicate values.

```
findDuplicates: function (arr) {
  let result = [];

  arr.forEach(function(n, index) {
    if (arr.indexOf(n, index + 1) > -1) {
      if (result.indexOf(n) === -1) {
        result.push(n);
      }
    }
  });
}

return result;
},
```

With a given dinosaur type, the algorithm checks which dinosaurs are of this type within an array of dinosaurs. If the `dino.type ==` given type, the dino is stored in a new array called `totalRemoved`. Finally the algorithm returns the length of the new array, i.e. the number of the dinosaurs removed from the initial array.

```
Park.prototype.removeDinoByType = function(type){
  var totalRemoved = [];
  for (dino of this.dinosaurs){
    if (dino.type == type) {
      totalRemoved.push(dino);
    }
  }
  return totalRemoved.length;
}
```

P 17

Bug tracking Report

Bug Tracking Report				
Lane 1	Test	Pass/Fail	Solution	Pass/Fail
Lane 2	Countries should be displayed in a drop-down menu	Test Failed	Create a populateDropdown() function that generates the drop down by adding each country name using restful.countries api	Test Passed
Lane 3	Display countries capitals and population in a list	Test Failed	Create a function that iterates over the countries array, creates html list elements and append the wanted data on them to display	Test Passed
Lane 3	Allow selection of a country in the drop down and display of this country	Test Failed	Add an eventListener on 'Change' to enable collecting the event from the drop down list	Test Passed
Lane 3	Save the countries list in local storage to recall the last one selected	Test Failed	Create a function that enables saving in local storage using JSON.parse	Test Passed