PDA: Software Development Level 8 Student Evidence Checklist

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Cohort	G4

The evidence required can be taken from your assignments, homework that you have completed on your own or by creating a specific example for the PDA.

	Unit	Ref.	Evidence	Done
	1 & T	I.T 5	Demonstrate the use of an array in a program. Take screenshots of: *An array in a program *A function that uses the array *The result of the function running	
			<pre>const RecordCollector = function(name, cash){ this.name = name; this.collection = [] this.cash = cash; }</pre>	
Week 2			<pre>RecordCollector.prototype.buy = function (record) { if(this.cash > record.price){ this.cash -= record.price; this.collection.push(record) } </pre>	

		<pre>it('record collector can buy a record', function(){ recordCollector.buy(record1); assert.strictEqual(recordCollector.cash, 61); assert.deepStrictEqual(recordCollector.collection, [record1]); })</pre>	<pre></pre>
1 & T	I.T 6		
1 & T		Static and Dynamic testing task A	

ι	Unit	Ref.	Evidence	Done
I	I & T	I.T 3	Demonstrate searching data in a program. Take screenshots of: *Function that searches data *The result of the function running	

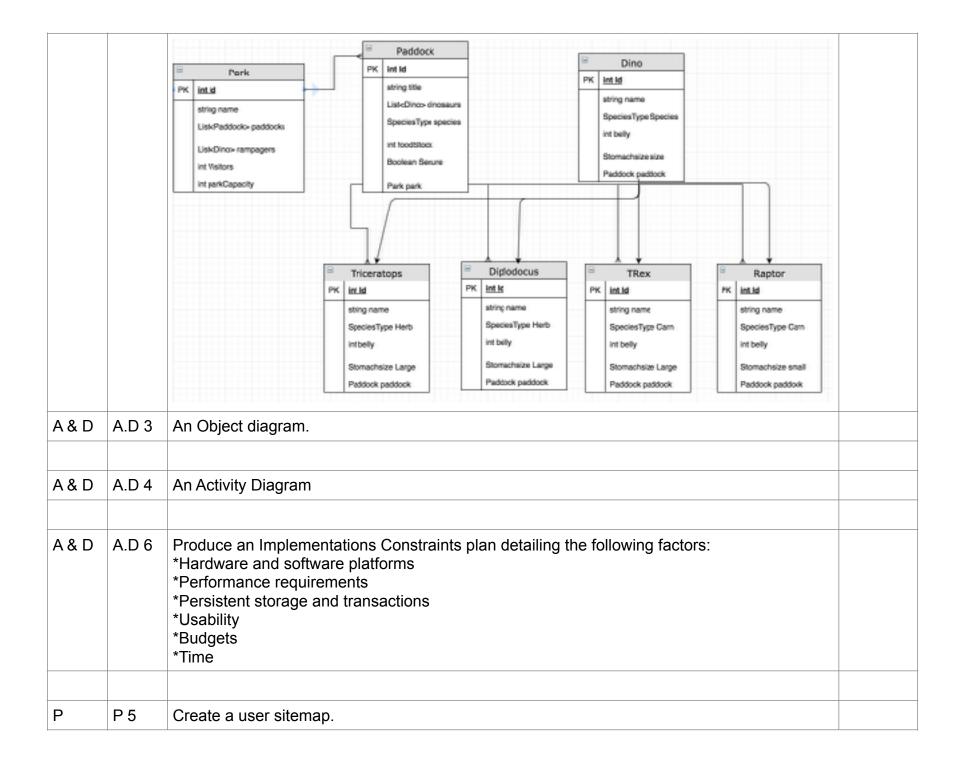
```
public static <T> List<T> getAll(Class classType){
                          session = HibernateUtil.getSessionFactory().openSession();
                          List<T> results = null;
                          Criteria criteria = session.createCriteria(classType);
                          results = getList(criteria);
                          return results;
Week 3
                    List<Team> foundTeams = DBHelper.getAll(Team.class);
                         foundTeams = {ArrayList@2167} size = 5
                         0 = {Team@2175}
                         1 = {Team@2176}
                         2 = {Team@2177}
                         3 = {Team@2178}
                         4 = {Team@2179}
             I.T 4
                    Demonstrate sorting data in a program. Take screenshots of:
       1 & T
                    *Function that sorts data
                    *The result of the function running
```

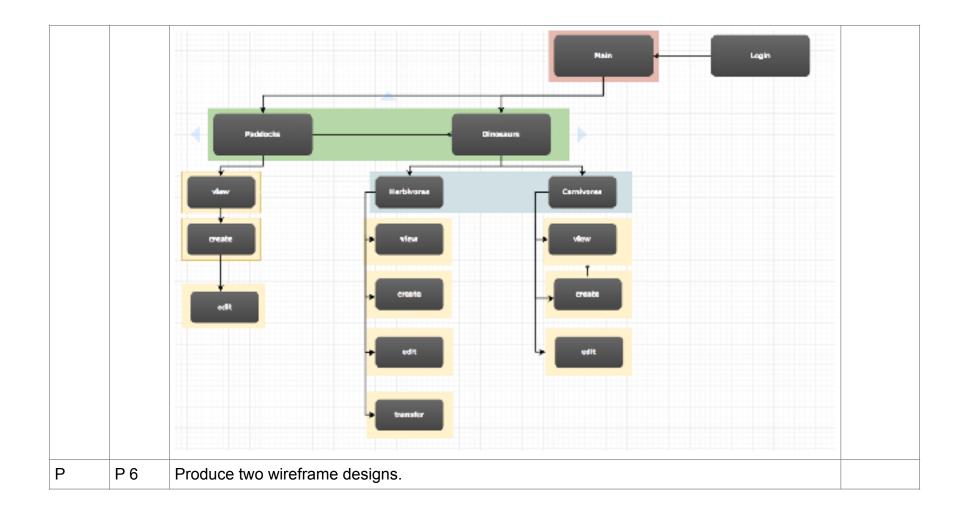
```
public static List<Team> getTeamsInLeague(League league){
    session = HibernateUtil.getSessionFactory().openSession();
    List<Team> results = null;
    Criteria criteria = session.createCriteria(Team.class);
    criteria.add(Restrictions.eq("league", league));
    criteria.addOrder(Order.desc("points"));
    results = getList(criteria);
    return results;
}

List<Team> teamsfoundInPointsOrder = DBHelper.getTeamsInLeague(league);
```

```
teamsfoundInPointsOrder = {ArrayList@2170} size = 5
  O = {Team@2183}
     (id = 5
   • Barcelona"
     points = 20
     manager = nul
   league = {League@2189}
▼ = 1 = {Team@2184}
     name = "Newcastle"
     6 points = 19
     manager = null
   • • league = {League@2189}
▼ = 2 = {Team@2185}
     id = 1
     name = "soccer united"
     points = 12
      n manager = null
   (a) league = {League@2189}.
▼ = 3 = {Team@2186}
     \bigcirc id = 3
  • name = "Man blues"
     points = 7
     manager = null
   • (f) league = {League@2189}
▼ = 4 = {Team@2187}
     6 id = 2
     name = "Man reds"
     points = 3
     🍘 manager = null
     (a) league = {League@2189}
```

& D A.D 1 A Use Case Diagram	
Man	
Man	
Meminwentery	
view stock levels	
Actor	
(update stock levels)	
& D A.D 2 A Class diagram.	





Paddocks

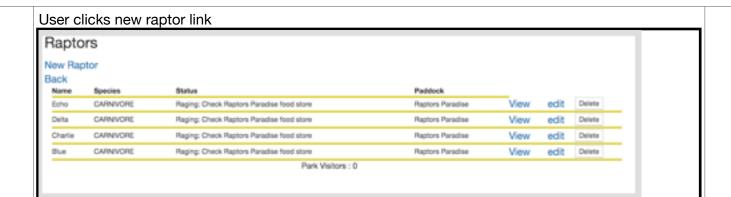


Add Paddock

. .



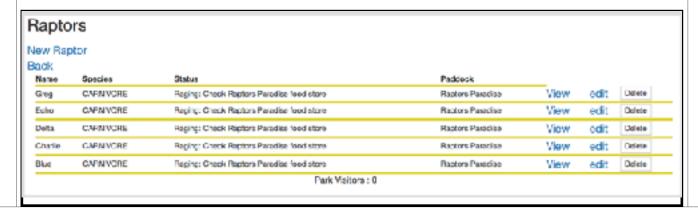
```
let newArray = [];
               // for each index position in arr.
                 for(let i in arr){
                   1f(1 < index){
                     // push those elements into the newArray.
                     newArray.push(arr[i]);
                   }else{
                     // then push itemToAdd to the end of the newArray.
                     newArray.push(itemToAdd);
                     //then push the remaining elements to the end of newArray.
                      newArray.push(arr[i]);
Р
      P 13
             Show user input being processed according to design requirements. Take a screenshot of:
             * The user inputting something into your program
             * The user input being saved or used in some way
```

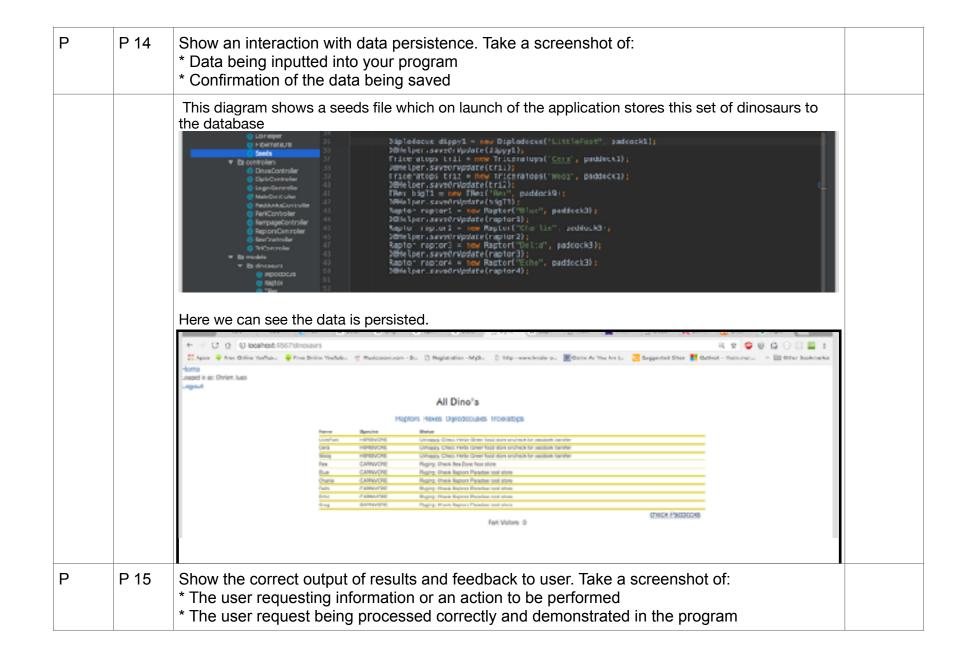


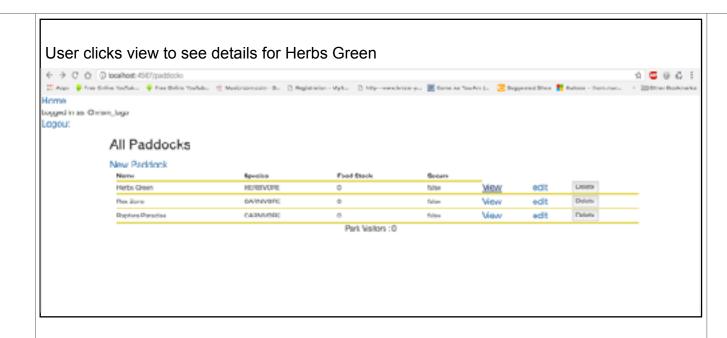
Inputs the name of the new raptor and paddock and clicks save



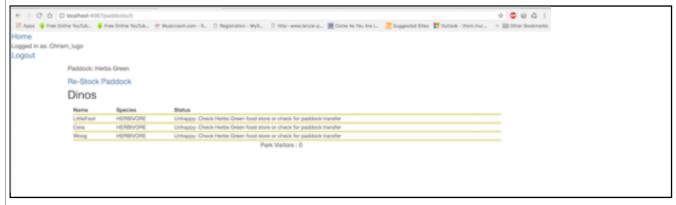
The input is saved to the database which is confirmed when viewed on raptors page.



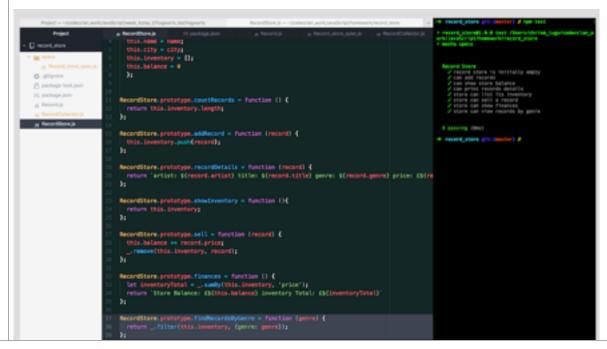




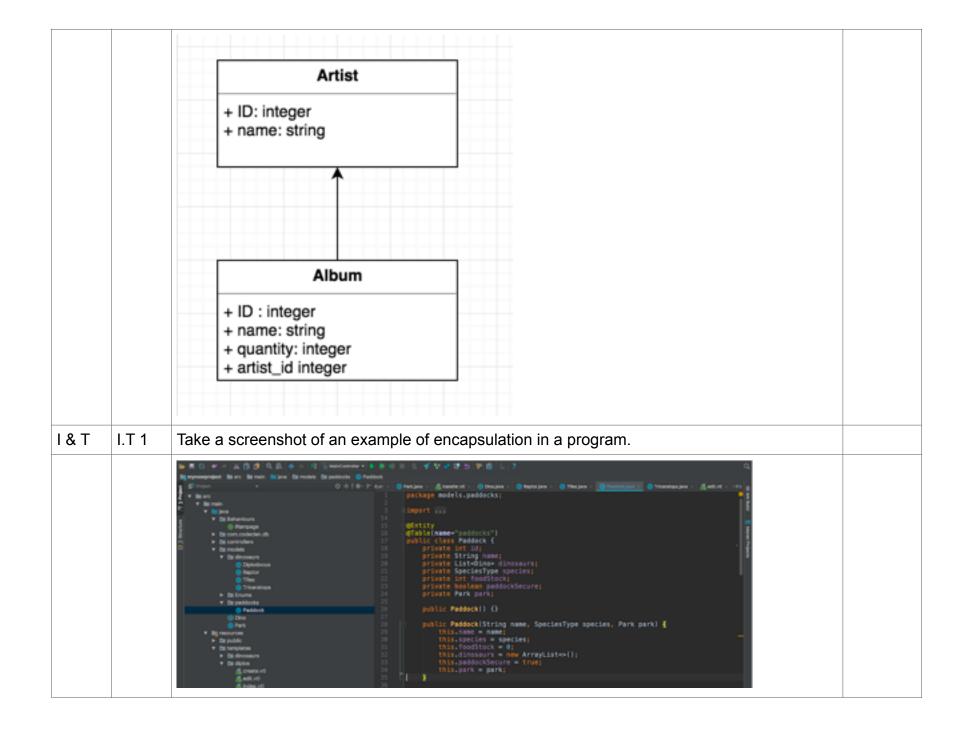
Link Navigates to paddock page for Herb's Green



Р	P 18	Demonstrate testing in your program. Take screenshots of:
		* Example of test code
		* The test code failing to pass
		* Example of the test code once errors have been corrected
		* The test code passing



Unit	Ref.	Evidence	Done
1 & T	I.T 7	Demonstrate the use of Polymorphism in a program.	
		Description Compared Compare	
A & D	A.D 5	An Inheritance Diagram	



I & T	I.T 2	Take a screenshot of the use of Inheritance in a program. Take screenshots of: *A Class	
		*A Class that inherits from the previous class	
		*An Object in the inherited class	
		*A Method that uses the information inherited from another class.	

Week 7

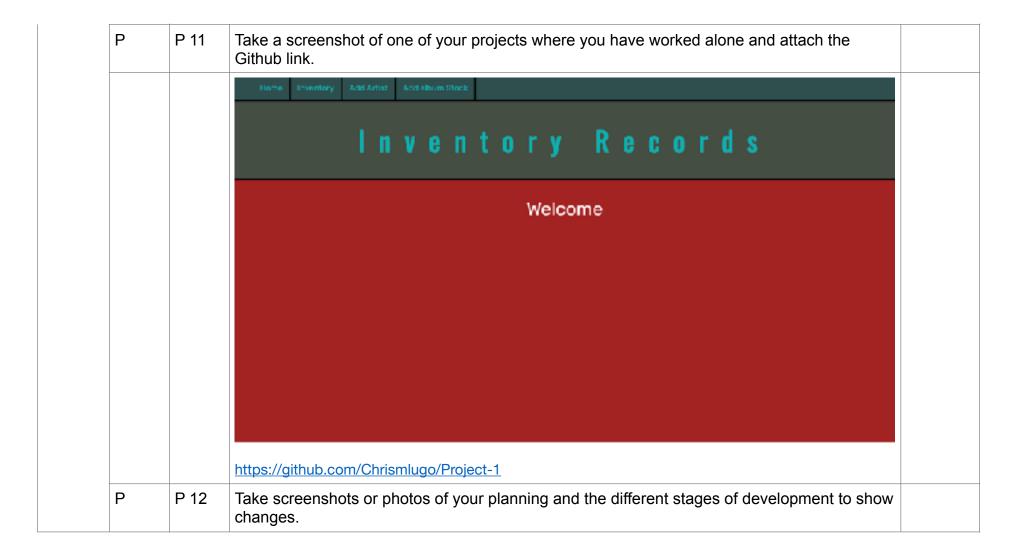
This Employee Class contains all the functionality for all types of employee

The Manager class shown here inherits from the Employee class.

```
public class Manager extends Employee {
    private String deptName;
    public Manager(String name, String niNumber, double salary, String deptName) {
        super(name, niNumber, salary);
        this.deptName = deptName;
    }
    public String getDeptName() {
        return deptName;
    }
}
```

The test file here demonstrates the manager Class has inherited the methods of its parent class.

```
| Business | Section | Sec
```



User Needs

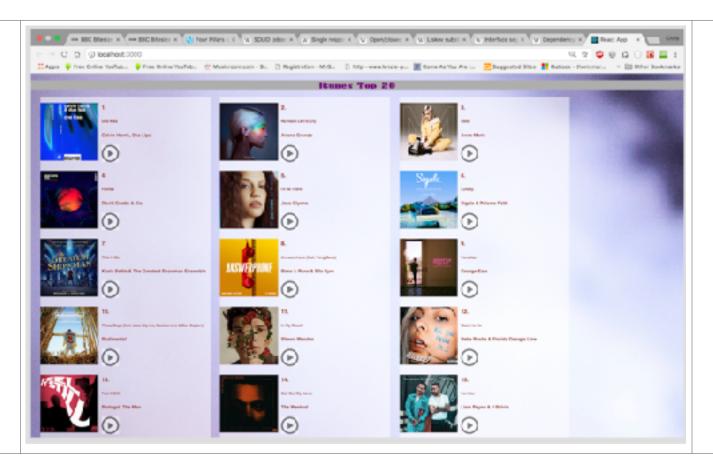
As a	I want to	So that
Business owner	Have a stock management app	I can view, update and add stock.
Person who isn't Too familiar with the latest tech	Have a straightforward Layout that's familiar.	Be able to easily understand and use the app.
Manager of a team	Have an app which is easy to use	My staff can easily use it.

User Journey

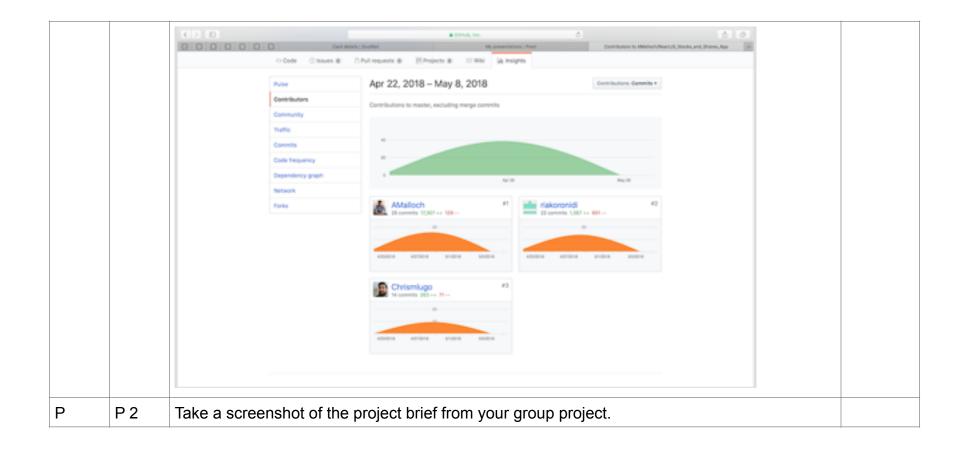
Action 1	Action 2	Action 3	Action 4	Action 5	Action 6
George views the home screen and would like to check the stores current inventory	He clicks link to inventory and views current stock	George wants to know the availability of a particular album	The album is showing low stock availability. He would like to update the inventory with new stock	George adds the new stock to the system and would like to confirm the update.	George submits the form and would like to view the inventory to confirm stock has been updated
System 1	System 2	System 3	System 4	System 5	System 6
Home page should have a link to navigate to the inventory page	Searches artists database and albums database and displays all details on sercen.	Albums have a quantity. Can call a method with logic to determine high/ med/low/out of stock.	link next to each entry will navigate to an edit screen with a pre-populated form.	Form will include a quantity bar which will be a number input	The submit button will update the album quantity and redirect to the inventory page

Unit	Ref.	Evidence	Done
1 & T		Unit, integration and acceptance testing task B	

Week 11			https://github.com/Chrismlugo/calculator_unit_and_integration_testing_mocha_selenium	
	Р	P 16	Show an API being used within your program. Take a screenshot of: * The code that uses or implements the API * The API being used by the program whilst running	
			<pre>componentDidHount(){ fetch("https://itunes.apple.com/gb/rss/topsongs/limit=20/json") .then(response => response.json()) .then(json => this.setState({songs: json.feed.entry})); } handlePlayPause(audio){ audio.paused ? audio.play() : audio.pause(); audio.classList.toggle('playing'); } render(){ return (</pre>	



Unit	Ref.	Evidence	Done
Р	P 1	Take a screenshot of the contributor's page on Github from your group project to show the team you worked with.	



[∞] Shares App

More and more people are playing the stock market. A local trader has come to you with a portoflio of shares. She wants to be able to analyse it more effectively. She has a small sample data set to give you and would like you to build a minimal viable product (MVP) that uses the data to display her portfolio in useful ways so that she can make better decisions.

MVP

- · View total current value of the portfolio
- · View information for individual shares held
- Ability to 'buy'/add more stocks to the portfolio and 'sell'/remove them and update total value.
- · View performance trends for individual stocks and the portfolio as a whole

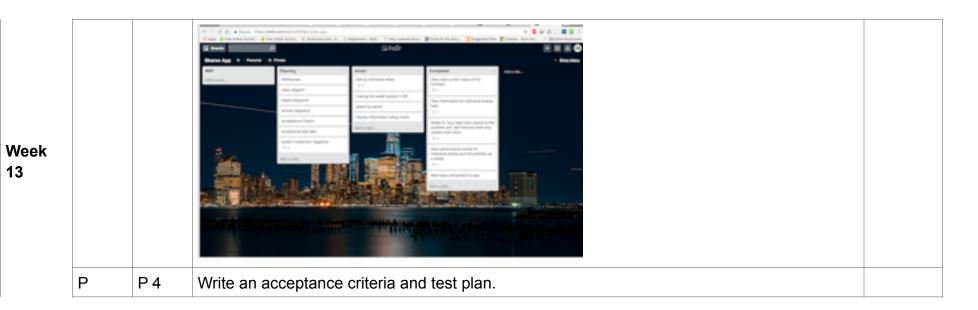
Stock api's can be found here - https://github.com/toddmotto/public-apis#finance

If you want to make your own api an object may look something like this:

```
{
    "name": "Fusionex",
    "epic":"FXI",
    "price": 120.00,
    "quantity": 2000,
    "buyPrice": 80.00,
    "pastCloseOfDayPrices": [92.00, 89.00, 103.00, 125.00, 108.00, 98.00, 110.00],
    "buyDate":"2014-11-15"
}
```

P 3

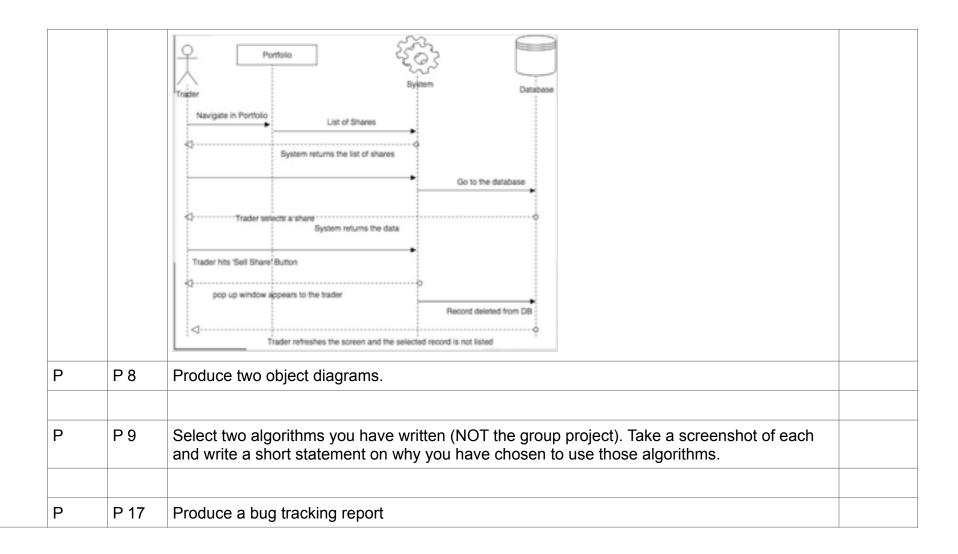
Provide a screenshot of the planning you completed during your group project, e.g. Trello MOSCOW board.



Acceptance officing	Acce	ptance	Criteria
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Acceptance Criteria	Expected Result/Output	Pass/Fail
User is able to view the total value their portfolio	When link to portfolio is clicked, user is navigated to new page which displays total value of the portfolio on the page	Pass
User is able to view an individual share that they own	On the Portfolio page, the user will select from a dropdown the desired share they want to view details of that share on screen	Pass
User can view the performance of their portfolio against the current market	When an individual share is selected, the page will display a comparison between the bought share and the current market price, showing a profit/ loss value	Pass
User can buy an amount of shares from the stock market	On the stock market page, the user can select the chosen company, Select a quantity they'd like to buy and hit submit which adds to user's portfolio	Pass

P Produce two system interaction diagrams (sequence and/or collaboration diagrams).



Deleting all portfolio shares should return an empty drop down list but instead the screen would go blank		Added an if statement to check if array is empty	Passed	
Values returned from buying/ selling should be return upto 2 decimal places		Adds code to round results to 2 decimals	Passed	
Bootstrap table data should be accessed from props.		Data passed through render in route	Passed	
Balance should persist throughout application after buy or sell	Failed			
Must re-render page after share has been sold	Failed			