PDA Evidence

Week 2 – I&T I.T.5

```
def initialize(room_id, capacity, entry_fee)
    @room_id = room_id
    @capacity = capacity
    @guest_list = []
    @playlist = []
    @entry_fee = entry_fee
    @entry_till = []
end
```

Screenshot above shows an array in a program - @playlist, @entry_fee, @entry_till.

```
def add_song_to_room(song)
    @playlist << song
end</pre>
```

Screenshot above shows the array being used in a function – song being added to the @playlist array.

```
def test_add_2_songs_to_playlist
    @room.add_song_to_room(@song1)
    @room.add_song_to_room(@song2)
    assert_equal(2, @room.get_playlist_count())

rubbish_song = @room.remove_song_from_playlist(@song2)
    assert_equal(rubbish_song, @song2)
end
```

Screenshot above shows the function test that shows that a song can be added to the playlist.

```
def initialize(input_book_title, input_rental_name, input_rental_date)
  @book_title = input_book_title
  @rental_name = input_rental_name
  @rental_date = input_rental_date
end
```

```
def setup()
@library =
    title: "lord_of_the_rings",
    rental_details: {
    student_name: "Jeff",
    date: "01/12/16"
 }
    title: "Dark Disciple",
   rental_details: {
   student_name: "David",
    date: "13/02/17"
 }
    title: "Aftermath",
    rental_details: {
    student_name: "Bob",
 }
 }
```

Screenshots above shows a hash in a program and the data being passed into the hash.

```
def list_books_and_details(title, rental_details)
    for book in books
        return "#{:title}, #{:rental_details}"
        end
end
```

Screenshot above shows a hash in a program - #{:title}, #{:rental_details}.

Week 3 – I&T I.T.3

```
def self.find(id)
  sql = "SELECT * FROM records WHERE id=#{id};"
  results = SqlRunner.run(sql)
  return Record.new(results.first)
end
```

recor	d_store=# S	ELECT * FROM re	ecords WHERE	id=3;			
id	artist_id	title	type	quantity	cover_url	genre	release_year
+		+	+			·	+
3		Fuzzy Logic	CD Album	5	http://bit.ly/2rRrTiZ	Psychedelic Rock	1996
(1 ro	w)						

The above screenshots shows a search function and the results of that search function.

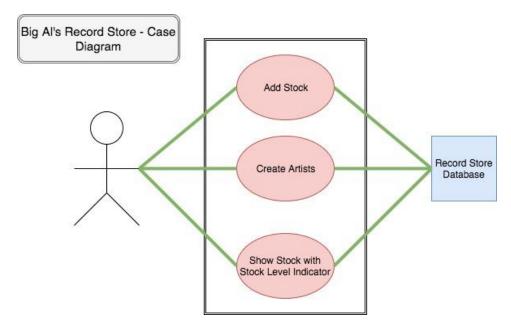
Week 3 – I&T I.T.3

```
def sort_by_release_year
    sql = "SELECT * FROM records ORDER BY release_year"
    SqlRunner.run(sql)
end
```

id	artist_id	title	type	quantity	cover_url	genre	release_year
1 3 2 5 4 (5 ro)	3 2 1 4	Roll With It Fuzzy Logic Urban Hymns Be Here Now Good Country (Hello Nightclub)	CD Single CD Album CD Album	5 1 4	http://bit.ly/2ra4zKq http://bit.ly/2rRrTiZ http://bit.ly/2s2egvW http://bit.ly/2sooh8I http://bit.ly/2ssZO2G	Psychedelic Rock Rock Rock	1995 1996 1997 1997 2001

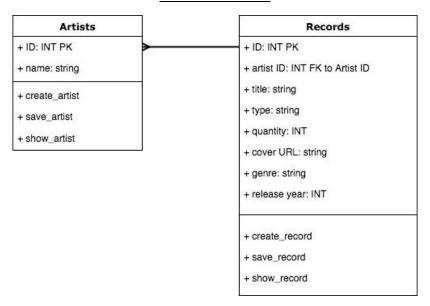
The above screenshots shows a function that sorts by release year and the result of that sorting function.

Week 5 – A&D A.D 1



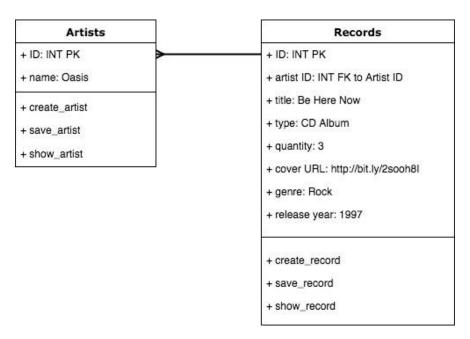
Screenshot above shows a Case Diagram.

Week 5 – A&D A.D 2



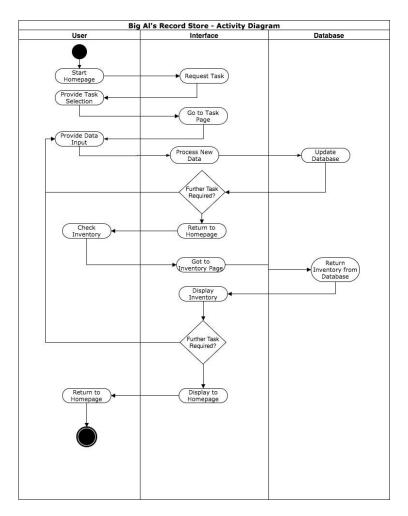
Screenshot above shows a Class Diagram.

Week 5 – A&D A.D 3



Screenshot above shows an Object Diagram.

Week 5 – A&D A.D 4



Screenshot above shows an Activity Diagram.

Possible Effect of Constraint on Product Constraint Solution Possible use of different devices to view Discover likely devices in advance and code Hardware & Software Platforms webpage accordingly I.e. flexbox layout. Only one user, so few requests to If an increase in users occurs bandwidth & Performance Requirements database in one session. database requests will need to be considered. Local Hosting will suffice for the moment, but if Only one user - with a limited amount of Persistent Storage the database increased another hosting data for the moment. solution may need to be found I.e. AmazonS3. Images may become stretched when Ensure flexbox approach is taken where Usability page is resized. If off-site storage is required then this Use local hosting + on-site back up to keep Budgets may increase cost for database overall. costs to minimum. MVP to be completed and submitted by Good time management, leaving enough time Time Limitations midday 14/06/17. for planning & coding.

Above is a Implementation Constraints Plan.

Week 5 - P P5 Big Al's Record Store Site Map Big Al's Record Store Homepage Big Al's Big Al's Add / List Record Store Record Store Artists Homepage Homepage Show Add Artist Add Inventory Inventory Show Stock Show Artists Level

Above is a Site Map.

<u>Week 5 – P P6</u>

(navigation) Create New Artist Input New Stock Show Full Inventory (header)	Big Al's Record Store (header) Operation to homepage Operation to
	Exter Artist Name: (cinat box) SARES (some budget) Current Artist List Nome Hears Name Hears Artist Hoose Sares S
All images courtesy of Microdot McRODOT AUGUSTO COURTED TO MICRODOT AUGUSTO COURTED TO MICRODOT AUGUSTO COURTED TO MICRODOT COURTED TO MICRODOTICADOS OF MIC	[feater] images courtes of Microdot MICRODOTS Big Al's Record Store (needer) * Return to pringpage ** A peace New Artist ** Input New Stock [INENTORY LIST (header) [Album Title Artist Name Quarting Ox Stock Level [All Images courtesy of Microdot MICRODOT (LINE)

Above picture is 4 Wireframe Diagrams.

Week 5 – P P10

```
# need to have a stock level indicator
# if its below 3 return low message,
# if its higher than 3 but below 8 return ok message
# if its higher than 8 return high message
# use if statement or case statement
def stock_level()
    case @quantity
    when 1..3
        return "Low!"
    when 4..7
        return "OK!"
    else
        return "High!"
    end
end
```

The above screenshot shows pseudocode being used to layout what conditions a case statement should have.

Week 5 - P P13



Above screenshot shows Blur being entered as a New Artist.



Above screenshot shows that Blur has been added to the database and is being displayed on the web page.



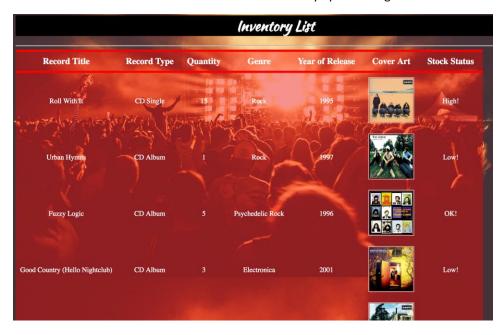
Above screenshot shows a new item being added to the inventory.



Above screenshot shows that the new item has been saved to the database.



Above screenshot shows the Show Full Inventory option being clicked on.



Above screenshot shows the Inventory List after chosen navigation has been clicked on the previous screenshot.

Week 6 - I&T I.T 7

```
package example.codeclan.com.blackjack;
import java.util.ArrayList;

/**

Created by user on 23/06/2017.

public interface Playable {
    void drawCard(Card card);
    int getTotal();

ArrayList<Card> showHand();

}
```

```
package example.codeclan.com.blackjack;
package example.codeclan.com.blackjack;
                                           import java.util.ArrayList;
import java.util.ArrayList;
                                            * Created by user on 23/06/2017.
*/
                                           public class Player implements Playable {
public class House implements Playable {
                                               ArrayList<Card> hand;
   private ArrayList<Card> hand;
                                                public Player() {
   public House() {
                                                    this.hand = new ArrayList<>();
        this.hand = new ArrayList<>();
   public int handCount() {
   return hand.size();
                                                public int handCount() {
                                                    return hand.size();
                                                @Override
   @Override
                                                public void drawCard(Card card) {
   public void drawCard(Card card) {
       hand.add(card);
                                                    hand.add(card);
   @Override
                                               @Override
    public int getTotal() {
                                                public int getTotal() {
       int total = 0;
                                                    int total = 0;
        for (Card card : hand) {
                                                    for (Card card : hand) {
           total += card.getValue();
                                                        total += card.getValue();
        return total;
                                                    return total;
   @Override
                                                public ArrayList<Card> showHand() {
    public ArrayList<Card> showHand() {
```

The above screenshot shows Polymorphism as the Player and House class implement the Playable interface class.