

Evidence Gathering Document for SQA Level 8 Professional Developer Award.

This document is designed for you to present your screenshots and diagrams relevant to the PDA and to also give a short description of what you are showing to clarify understanding for the assessor.

Each point that required details the Assessment Criteria (What you have to show) along with a brief description of the kind of things you should be showing.

Please fill in each point with screenshot or diagram and description.

Week 2

Unit	Ref	Evidence
I&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

```
def setsel)

| def setsel)
| geograph segment force; if y february | 42  | 43  | 44  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45
```

This screenshot shows an array of songs, with a function that adds a song to the array and the test for this, with a screenshot of the test passing in the terminal.

Unit	Ref	Evidence
I&T	I.T.6	Demonstrate the use of a hash in a program. Take screenshots of: *A hash in a program *A function that uses the hash *The result of the function running

This screenshot shows the use of a hash, with a function accessing the keys of "Sarah" and "main" to print the value of this "Steak and Chips" to the terminal.

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



This screenshot shows a function that searches for all music artists in a database within a program by id number and the result of using the search in psql and a web app made using Sinatra.

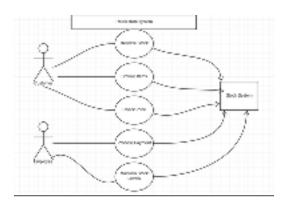
Unit	Ref	Evidence
I&T	I.T.4	Demonstrate sorting data in a program. Take screenshots of: *Function that sorts data *The result of the function running



This screenshot shows a function that searches for all musical artists in a database and sorts them in alphabetical order by name, with the results in psql and a web app.

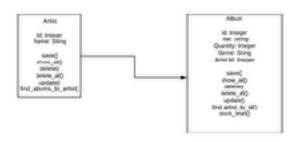
Week 5

Unit	Ref	Evidence
A&D	A.D.1	A Use Case Diagram



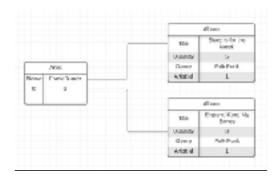
This is an example of a use case diagram for a retail store system that allows both staff and customers to interact with it.

Unit	Ref	Evidence
A&D	A.D.2	A Class Diagram



This is an example of a class diagram for a program which has two classes - one of Artists and one of Albums, with different properties and methods in each.

Unit	Ref	Evidence
A&D	A.D.3	An Object Diagram



This is an example of an object diagram in which one musical artist has many albums.

Unit	Ref	Evidence
A&D	A.D.4	An Activity Diagram



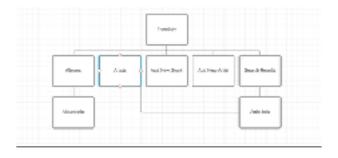
This is an activity diagram which shows the process of a customer using an ATM to check their balance and withdraw money.

Unit	Ref	Evidence
A&D	A.D.6	Produce an Implementations Constraints plan detailing the following factors: *Hardware and software platforms *Performance requirements *Persistent storage and transactions *Usability *Budgets *Time



An implementations constraints plan for a program.

Unit	Ref	Evidence
P	P.5	User Site Map



A user sitemap for a record store inventory web app.

Unit	Ref	Evidence
P	P.6	2 Wireframe Diagrams



Wireframe diagrams showing an inventory page and an add new artist page for a record store web app.

Unit	Ref	Evidence
P	P.10	Example of Pseudocode used for a method

Pseudocode for a function that returns low, medium or high based on stock level.

Unit	Ref	Evidence
P	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

A user inputting album information for a new album into a program, then that album appearing in the inventory.



Unit	Ref	Evidence
P	P.14	Show an interaction with data persistence. Take a screenshot of: * Data being inputted into your program * Confirmation of the data being saved



Seed data for a program with the save function and the result of that save function storing the data to the database in psql.

Unit	Ref	Evidence
P	P.15	Show the correct output of results and feedback to user. Take a screenshot of: * The user requesting information or an action to be performed * The user request being processed correctly and demonstrated in the program

Screenshots of the code used for a user to delete an album from a web app and the result of that album being deleted from the inventory.



Unit	Ref	Evidence
P	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



Examples of a test to get the total value when adding two cards together failing and then passing when the code has been corrected.

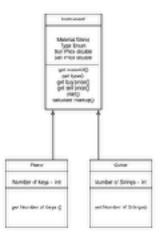
Week 7

Unit	Ref	Evidence
I&T	I.T.7	The use of Polymorphism in a program and what it is doing.



All instruments and accessories in the music shop implement the Sellable interface and therefore can be used in functions. All instruments and accessories can be added to the array list of items in the shop by using the object type Sellable in functions.

Unit	Ref	Evidence
A&D	A.D.5	An Inheritance Diagram



An Inheritance Diagram showing a Piano and a Guitar inheriting from an Instrument class.

Unit	Ref	Evidence
I&T	I.T.1	The use of Encapsulation in a program and what it is doing.

```
ic class Book f
        Book(String title, String genre) {
in title = title;
in genre = genre;
sublic Strine cetGennel) {
```

An example of a book

class with private properties, preventing direct access to those properties outwit the class, with getter methods that can be used elsewhere in the program in order to access these values.

Unit	Ref	Evidence
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.

Screenshots of Instrument class and Piano class which inherits from Instrument, with examples of a new Piano object being used to test the get material and get make methods.

```
pastic state that Instrument implements Flagable, Setimble {
    private String naberial;
    private String naberial;
    private String naber
    private String nabe;
    private string naberial;
    string naberi
```

```
pack class Pisco extends Sestimanal {
  private Set numberOffers;

public Pascristring nuterial, string opleur, improvement/yes incorment/yes, string make, double bustice, accordence and numberOffers;

public int provider(Traype) {
    return numberOffers;

}

public String play() {
    return "elision plants";

}
```

```
public class InstrumentTest {
    Instrument putter;
    Instrument plano;

guefore
    public word setUp() throws Exception {
        guitar = new Guitar("wood", "blue", InstrumentType.STRING, "Fender", 200.00, 250.00, 6);
        piano = new Plano("wood", "brown", InstrumentType.KENBOARD, "romaho", 900.00, 1200.00, 88);
}

effect
    public word hasMeterial() { assertEquals("wood", piano.getMaterial()); }

great
    public word hasColour() { assertEquals("blue", guitar.getColour()); }

effect
    public word hasInstrumentType() { assertEquals(InstrumentType.STRING, guitar.getInstrumentType()); }

effect
    public word hasNeke() { assertEquals("romaho", piano.getMake()); }

effect
    public word hasNeke() { assertEquals("romaho", piano.getMake()); }
```

Week 10

Unit	Ref	Evidence
P	P.11	Take a screenshot of one of your projects where you have worked alone and attach the Github link.

Hogwarts School of witchcraft and wisardry







https://github.com/PrincessSarahB/Harry-Potter-API-Homework

Unit	Ref	Evidence
P	P.12	Take screenshots or photos of your planning and the different stages of development to show changes.

Paste Screenshot here

Description here

Unit	Ref	Evidence
P	P.9	Select two algorithms you have written (NOT the group project). Take a screenshot of each and write a short statement on why you have chosen to use those algorithms.

Paste Screenshot here

Description here

Week 12

Unit	Ref	Evidence
P	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

Paste Screenshot here

Description here

Week 15

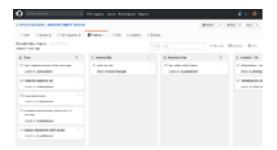
Unit	Ref	Evidence	
P	P.1	Take a screenshot of the contributor's page on Github from your group project to show the team you worked with.	



Unit	Ref	Evidence
P	P.2	Take a screenshot of the project brief from your group project.



Unit	Ref Evidence	
P	P.3	Provide a screenshot of the planning you completed during your group project, e.g. Trello MOSCOW board.

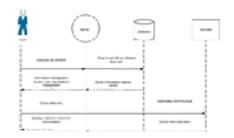


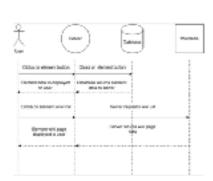
Unit	Ref	Evidence
P	P.4	Write an acceptance criteria and test plan.





Unit	Ref	Evidence	
P	P.7	Produce two system interaction diagrams (sequence and/or collaboration diagrams).	





Unit	Ref	Evidence
P	P.8	Produce two object diagrams.

Paste Screenshot here

Description here

Unit	Ref	Evidence
P	P.17	Produce a bug tracking report

Were unable to retrieve information from seeds	Foil	We were passing in wrong variable in props	Page
User could not select element info by clicking element	Fall	Added and its function to each element button	Pass
Wrong element information showing on auton of ck	Foil	Changed gareers target value to sworts parentflarget value.	Paics.
Theregrott displaying yestaze jink	ful	Wrote a function to split id from youtube link and append it to youtube ensed pole	Pess
Unable to add colours to element groups	Fall	Added group class to each element from aggl for gag to select for styling	Posos
Victor isospoplaying after popus window is closed	Full	Setting <u>frame as to</u> " in band a Close Settion.	Pens