Web Development 3 PC Based Assessment
(JavaScript, jQuery, ajax)
Thursday 8th December 2022. 11am (Winter Sitting)

What to submit :
- A .zip of your code (zip up the entire folder ….i.e. *<YourName>.zip*).
  - Code should be commented to show your understanding of functionality.
- Also include a Word document with screenshots showing the results of each step
  - similar to the screenshots provided in this document.

NB:
- You have been given a number of files as a zip file on Moodle "WD3PCAssessment2022.zip"
  - Unzip these into a folder   i.e.: C:\xampp\htdocs\<YourName>\
- You need to write the PHP files for the Server-side.
- The only Client-side files you need to write is main.js.
  - Do not edit index.html or main.css.
- In the JavaScript use jQuery methods for fetching the data and manipulating the DOM.

What to do:

Server-side functionality
> 1. Find All (Show Postman results)
> 2. Find by title (Show Postman results)

Client-side functionality
> 3. List of all books displayed
> 4. Display details for one book
> 5. Display review for a book
> 6. Display details in response to "Search by Title"

Notes on marking scheme: This exercise needs to be completed on a Step by Step basis. Unless Step 1 is working, Step 2 cannot be tested, therefore marks cannot be allocated for code written for Step 2 unless Step 1 works.
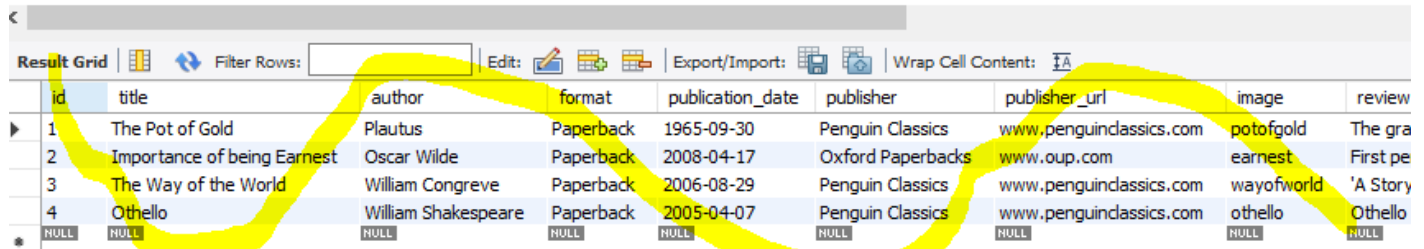
Configuring the Server Side:

Using the library.SQL file you have been given, you will create a database called "library".
The database will contain one table called "booktable" which contains a number of "books".

Once successfully created, your table should look like this.
Add a comment with your name as shown below:
Include a screenshot of this in your Word doc.

```
4        -- <Your Name> PC Exam
5 •      select * from booktable;
```
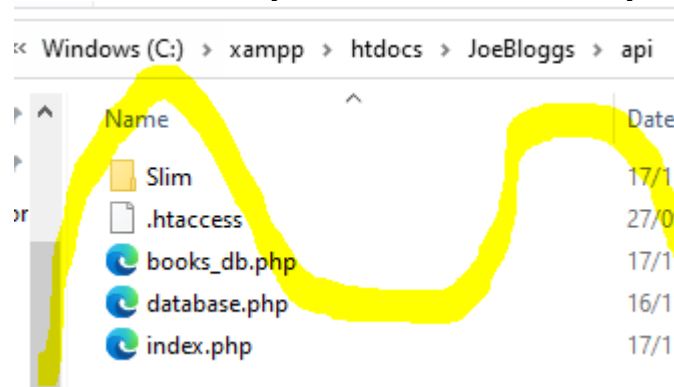
id	title	author	format	publication_date	publisher	publisher_url	image	review
1	The Pot of Gold	Plautus	Paperback	1965-09-30	Penguin Classics	www.penguinclassics.com	potofgold	The gra
2	Importance of being Earnest	Oscar Wilde	Paperback	2008-04-17	Oxford Paperbacks	www.oup.com	earnest	First pe
3	The Way of the World	William Congreve	Paperback	2006-08-29	Penguin Classics	www.penguinclassics.com	wayofworld	'A Story
4	Othello	William Shakespeare	Paperback	2005-04-07	Penguin Classics	www.penguinclassics.com	othello	Othello
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Develop a Rest API which allows for 2 different options :
- Find all books in the booktable table
- Find a book in the booktable table by its title

Code the server side to get the API (2 parts) working.
Include a screenshot of your folder/file structure in your Word doc

Windows (C:) > xampp > htdocs > JoeBloggs > api

| Name	Date
Slim	17/1
.htaccess	27/0
books_db.php	17/1
database.php	16/1
index.php	17/1

Now test the server side code using Postman to check that the 2 parts of the given API work.
Do not proceed unless this is working or you are wasting your time.

Step 1:- Find All (note this shows all 4 entries). Include a screenshot of this in your Word doc
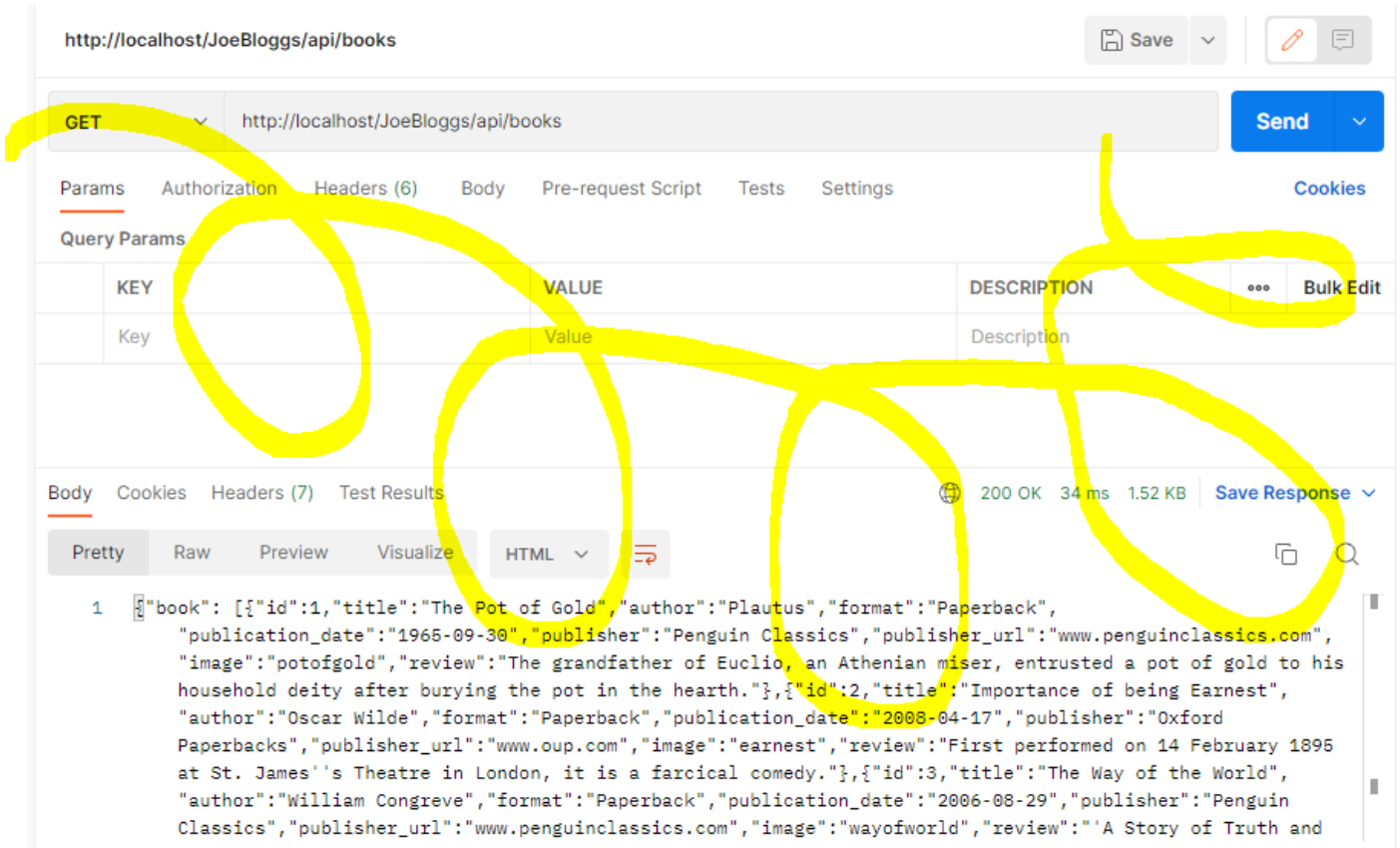
Step 2:- Find by title (note this shows a specified book). Include a screenshot of this in your Word doc
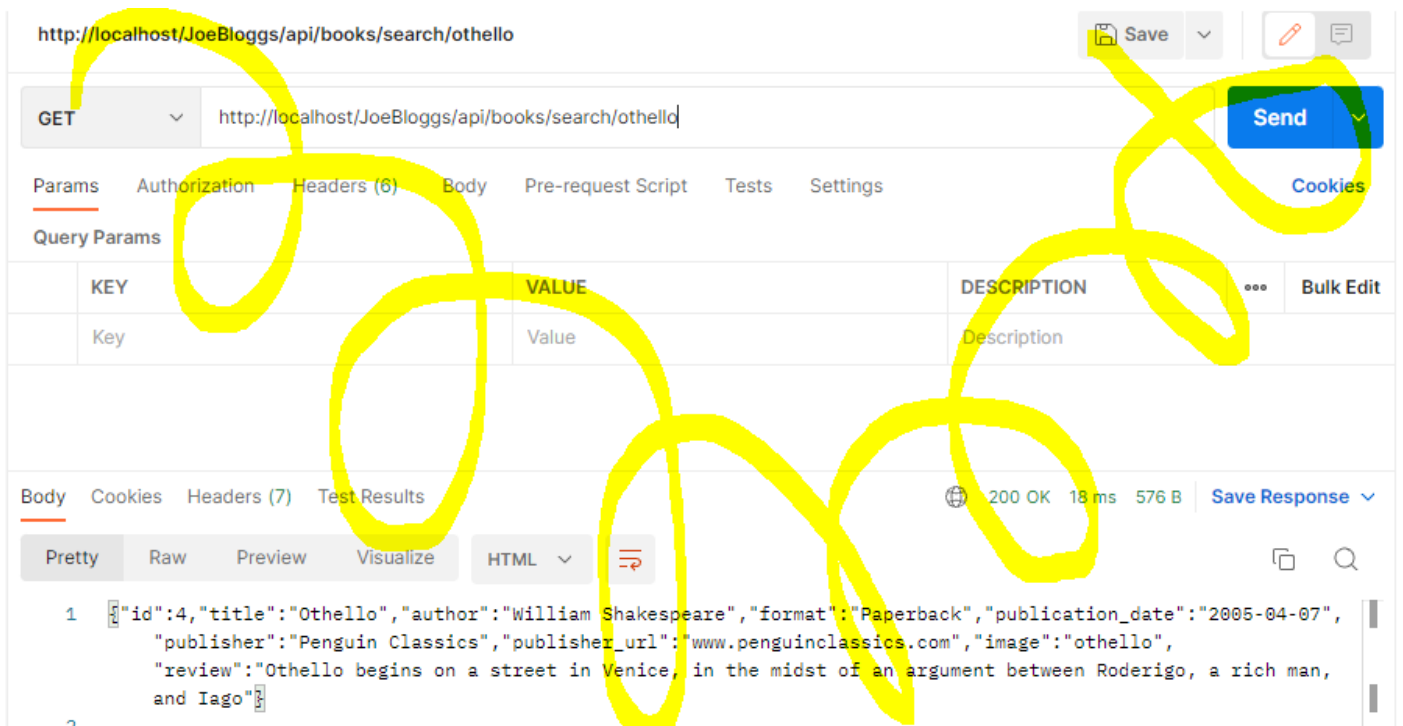
Client Side.

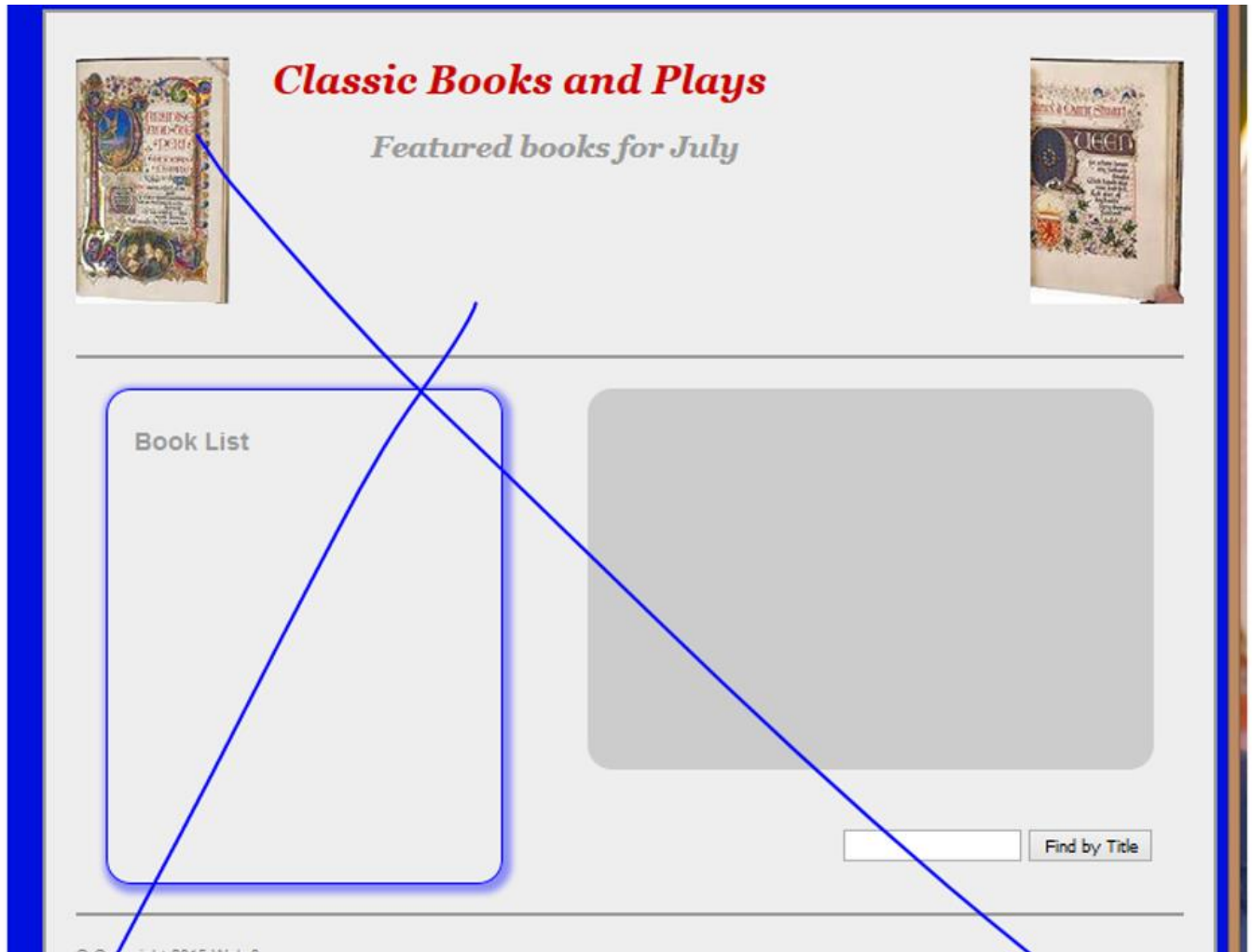You have been given a html file and a css file (index.html and main.css).
Do **not** make any updates to these files.
You have also been given a folder of images.

Create main.js and write the code needed in main.js to get the functionality described below.
This is what the page looks like initially (i.e with no JavaScript applied).
Include a screenshot of this in your Word doc.

Step 3.: Add the JavaScript so that a list of links is added to the unordered list in the aside element when the page loads.

A thumbnail image and the name of the book should be displayed as shown.
All the thumbnail images ends with "_t.jpg".
You should be able to click on the image **or** the text to display the details.(i.e both methods should work)

The result should be as follows :-
Include a screenshot of this in your Word doc.
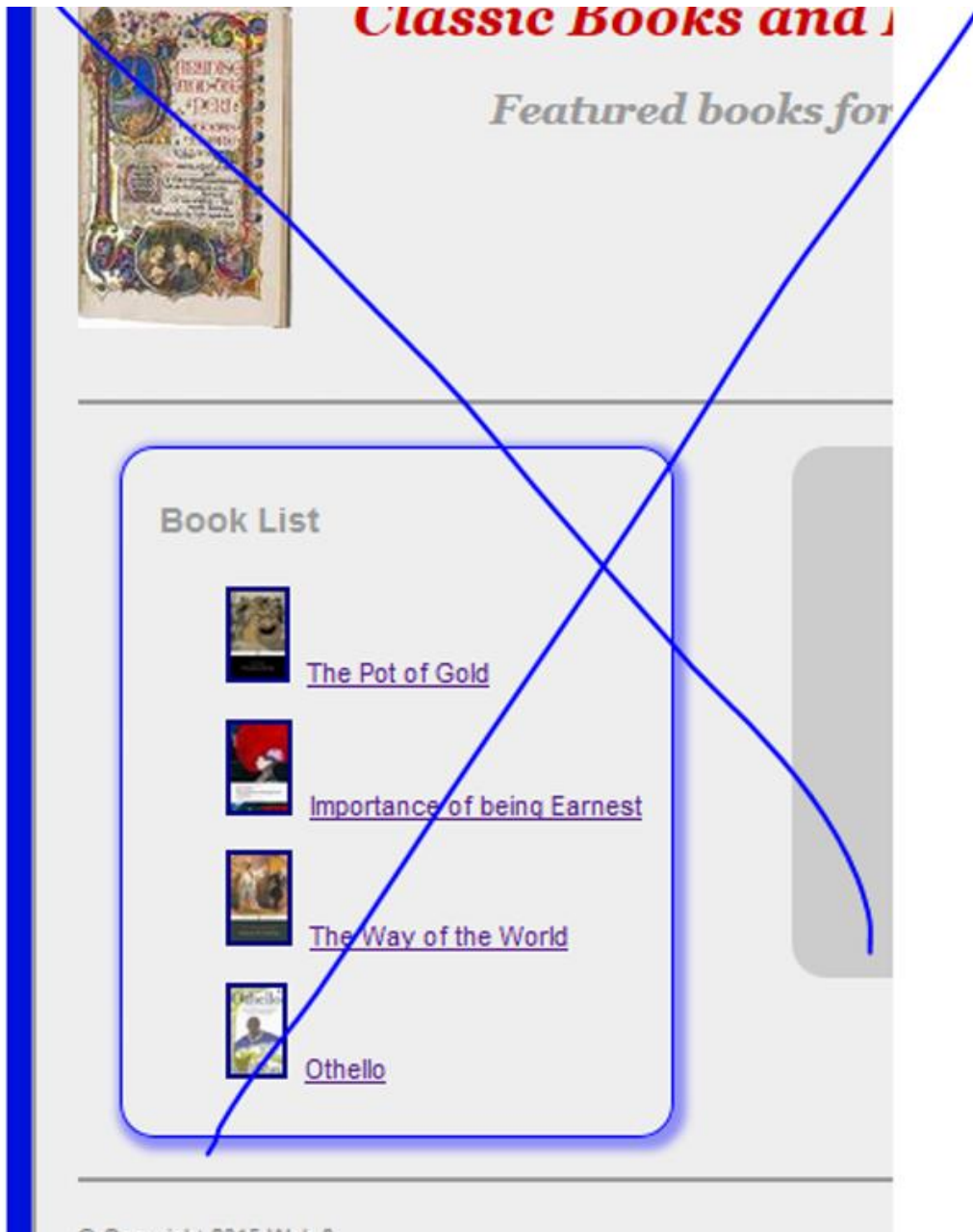
Step 4: Update the JavaScript so that the details for a particular book is shown when the link is clicked.

The book title is a **H3** element, other elements are **P** and **A** elements (link to publisher, see review)
Include a screenshot of this in your Word doc.

Classic Books and Plays

Featured books for July

Book List

The Pot of Gold

Importance of being Earnest

The Way of the World

Othello

The Pot of Gold

Author: Plautus

Format: Paperback

Publication Date: 1965-09-30

Penguin Classics

See Review

Find by Title

Step 5: when "See Review" is clicked, the book review is displayed
Include a screenshot of this in your Word doc.

Step 6: Finally update the JavaScript so that the text box and the "Search" button provide "Search by Title" functionality. When the name is typed into the text box and the "Find by Title" button clicked, the details for the book are provided again as shown.

Include a screenshot of this in your Word doc.

Note:
the search API provided only returns one entry. The text box should be cleared if the page is refreshed.

You don't need to handle situation where an unknown name is entered. No data will be returned.