Lab 2

COMP 3015: Web Application Development

Your mission:

- Start with the **lab-2-starter-kit.zip** project on D2L, under week 2 content.
- Make the **Book** model serializable into a JSON format.
 - This means that the Book class will implement the <u>JsonSerializable interface</u>, and provide an implementation for all methods that this interface defines. In this case, there is only one: **jsonSerialize**. Refer to the slides for an example implementation of the method, or use the official PHP docs.
- Finish implementing the BookRepository class. Methods saveBook, getBookByISBN, getBookByTitle, deleteBookByISBN and updateBook need to be implemented.

This exercise is meant to help you gain familiarity with OOP in PHP, file I/O and serializing and deserializing objects to a JSON format (using <u>JsonSerializable</u>, <u>json_encode</u>, <u>json_decode</u>).

Requirements:

- Books must be stored in a file on disk, in a JSON format.
- You must have the Book model implement the JsonSerializable interface.

Advice:

 Make sure to use Xdebug when you run into issues, and ask for help when you need it!

Submission:

- Make sure you update main.php to test your newly implemented functions.
- Push your project to your GitHub repository and submit the link on D2L.
- Due in week 3.

Evaluation:

• Functionality / 10

0	Book class correctly implements JsonSerializable	/ 2
0	saveBook method	/ 2
0	getBookByISBN method	/ 1
0	getBookByTitle method	/ 1
0	deleteBookByISBN method	/ 2
0	updateBook method	/ 2