Unit 4 - Week 2

Course outline

Week 1: Assignment 2

Assignment 2

The goal of the assignment is to implement a simple web service that allows users to search for books. The web service should support the following operations:

- Retrieve a list of books
- Search for books by title or author
- Add a new book to the collection
- Remove a book from the collection

You must implement the following methods in the `BookService` class:

```java
public class BookService {
    private List<Book> books;

    public List<Book> getBooks() {
        // Return a list of books
    }

    public List<Book> searchBooks(String title, String author) {
        // Search for books by title or author
    }

    public void addBook(Book book) {
        // Add a new book to the collection
    }

    public void removeBook(Book book) {
        // Remove a book from the collection
    }
}
```

You should also create a test case to verify the correctness of your implementation.

Week 2: Review

Week 3: Exam

Week 4: Final Project

Unit 4 Marks:

- 10 marks for the implementation of the `BookService` class
- 5 marks for the test case

Week 5: Course Review

Assignment Resources

- [Java documentation](http://docs.oracle.com/javase/8/docs/api/)
- [Spring Boot](https://spring.io)
- [RESTful Web Services](https://restfulwebservices.com)

Week 6: Final Exam

Week 7: Course Feedback

Week 8: Graduation Ceremony