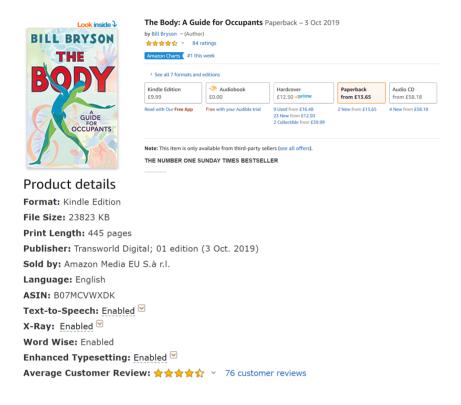
Challenge OOP programming - Amazon Book App

Designing and creating a real world class



Amazon typically stores (at least) the following data for each book in its store ...



As part of an application you have be tasked to design a Java class to represent the following selected data from an Amazon book ...

title, author, price, pages (number of), ISBN10, average customer rating, language

Your challenge ...

- 1. Create a UML class diagram to represent the data to be represented
- 2. Code that class create a default and a constructor that accepts all arguments.
- 3. Test that class with actual data (two books) <u>Test data 1</u> <u>(https://www.amazon.co.uk/Body-Guide-Occupants-Bill-Bryson/dp/0857522418/ref=tmm_pap_swatch_0?</u>
 <u>encoding=UTF8&qid=&sr=)</u> and <u>Test data 2</u> <u>(https://www.amazon.co.uk/Ulysses-Wordsworth-Classics-James-Joyce/dp/1840226358/ref=sr_1_1?</u>

<u>crid=2IZOTAY969UTL&keywords=james+joyce+ulysses&qid=1573898228&s=books&sprefix=james+joyce+u%2Cstripbooks%2C155&sr=1-1)</u>

4. Write a method with the test class that will compare two books and output to screen the longest read... (based on number of pages)

Solution (note the use of the auto generated toString() method)

UML example (some sensible variations could be used here, for example rating could be a double etc..) > <u>UML.GIF (https://canvas.qub.ac.uk/courses/11041/files/1074258/download?wrap=1)</u>

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Java Book representation > <u>AmazonBook.java</u>

(https://canvas.qub.ac.uk/courses/11041/files/1074251/download?wrap=1) ↓ (https://canvas.qub.ac.uk/courses/11041/files/1074251/download?download frd=1)

Test class > AmazonWebApp.java

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