

## Task/exercises for candidates as frontend developers.

1) Using public Google Books API <https://www.googleapis.com/books/v1/volumes?q=javascript> (No API key necessary) do the next:

a. Before executing the request, you must create a new Book object constructor, which contains properties for: title, authors, publishedDate, publisher and categories.

b. Iterate through the response content and create Book object instances that you prepared in previous step, with available values for each found book and store them in a new Array.

c. Output all books to the Javascript console formatted like **title, authors, publishDate, publisher, [category1, category2, ...]**

V.g. Javascript: The definitive guide (Activate your Web Pages), David Flanagan, 2011-04-18, "O'Reilly Media, Inc.", [Computers]

Consider adding appropriate method to the object constructor to create a formatted string.

2) Do the following tasks:

a. Sort the Array created in 1) by publishedDate and output in console.

b. Calculate and output the average rating of the "Computers" books.

3) Do the following tasks:

a. Extend the basic Book object and create a new AvailableBook object constructor that inherits all basic book properties and adds 2 new properties for listPrice (listPrice.amount) and buyLink.

b. Every AvailableBook instance show now have 2 additional methods: getPrice() and getBuyLink() that returns the price and the link respectively. Also overwrite the toString() method for an extended formatted representation of an AvailableBook instance by adding the additional properties:

V.g. ... - 43.56€ at  
[https://play.google.com/store/books/details?id=6TA0DdEIxrgC&rdid=book-6TA0DdEIxrgC&rdot=1&source=gbs\\_api](https://play.google.com/store/books/details?id=6TA0DdEIxrgC&rdid=book-6TA0DdEIxrgC&rdot=1&source=gbs_api)

4) Create a simple HTML page to display the books in a list using standard DOM manipulation operations.

5) Encapsulate both new object constructors into a namespace structure using a simple modularization approach.