Create a **RESTful** web service for a Library. The service must have the following API endpoints:

* (C)reate a new Book
* (R)ead existing Books
* (U)pdate an existing Book
* (D)elete an existing Book

A Book entity has the following properties:

* Author (mandatory)
* Title (mandatory)
* ISBN (mandatory)
* Release Date

**MUST HAVE Requirements (we will not consider your submission if these are not met)**

* Code must be covered with unit tests
* Clean, easy to understand and maintainable
* Be RESTful
* Validate inputs
* Avoid using frameworks (e.g. Laravel, Spring Boot) -- we’d like to see all code written from the ground up to understand your abilities regardless of a framework

**Bonus / Nice to have**

* Endpoints covered with system/functional tests
* API documented (OpenAPI)
* Dockerize your application, i.e. besides the GitHub code repo please alsohost it and give us a demo link[you can use a trial account of AWS/GCP/Azure to do this]

**Please Note**

* You could choose to do this test preferably in NodeJS or PHP (for php no frameworks like Laravel, only core PHP all code written from the ground up please).
* Provide a code you can be proud of, something that fully reflects your knowledge of development, unit testing, DevOps, scalability and security.
* We are not curious about if you know how to use existing frameworks, but we’d like to assess your real coding skills.  
  If you feel the task takes too much time, implement only a part of it (like one or two endpoints only), but what you implement should meet every requirement from the must have list above.

**Hint:** *You can print this page out and use the* ***Requirements*** *paragraph as a checklist.*