Backend developer take-away test

Company: JamboPay
Accepted stacks: Django, Flask, Laravel, Asp.Net
Git: Gitlab, Github, Bitbucket

1. You are required to develop a bookstore inventory management system. You have been assigned a frontend developer and your work is to design and develop a Restful API for the system.
   a. Requirement specification
      i. Every book has properties like Title, Author, Year of publication, Description
      ii. An author can have properties like First Name, Last Name, Email, Date of birth
      iii. Stock status changes depending on the number of books available
         - 10 and above - Status is Good
         - 5 to 10 - Status is Bad
         - 1 - 5 - Status is Critical
         - 0 - Status is out of stock
      iv. Should allow new stock addition for both existing and new books
      v. Stock can be reduced
      vi. Stock cannot be deleted
      vii. Should allow listing of Books
      viii. Should be able to filter books by year of publication, author
      ix. Should be able to retrieve stock history per stock
   b. Deliverables
      i. Database design
      ii. Link to the code repository.
      iii. The code must have unit tests.
      iv. At least 80% test coverage.
      v. Add Readme to your repository explaining how to set up and run your application.
      vi. It's a bonus to implement a CI pipeline/Github flow