NodeJS Developer Test

The goal of this assessment is to assess your architectural and development capability.

Assignment 1

Project Definition

1. Write software that reads the CSV data (of books, magazines, and authors) given on the next page.
2. Print out all books and magazines (on either console UI) with all their details (with a meaningful output format).
3. Find a book or magazine by its ISBN.
4. Find all books and magazines by their authors' email.
5. Print out all books and magazines with all their details sorted by title. This sort should be done for books and magazines together.
6. Add a book and a magazine to the data structure of your software and export it to a new CSV file.

Extra Credits

1. Write Unit tests for one or more methods.
2. Implement an interactive UI for one or more of the main tasks mentioned above.
3. We prefer TypeScript over Javascript and hence there are extra credits for TypeScript.

Notes

1. Deploy the app on a public git repository and share the link.
2. Host the application online and share the link to the app.

Data

1. Authors.csv
2. Books.csv
3. Magazines.csv

Assignment 2

Project Definition

1. Write a program that takes the position of a Knight as an input on an 8×8 chessboard.
2. Given the position of the Knight, find all the possible places where the Knight can move. You can assume that there are no pieces of the opposite color and hence no blocks.

Notes

1. You can have this program run from the command line as well.

Extra Credits

1. Create a UI for this program which takes Knights current position as input via mouse click on the chessboard.
2. We prefer TypeScript over Javascript and hence there are extra credits for TypeScript.