Implement an SPA application "Book catalog". You can use any framework or library.

Requirements:

- 1. Store data using Firestore and Firestore SDK;
- 2. On the main page the list of all books should be displayed;
- 3. Books should be grouped by publication year. Groups should be sorted in descending order (new books come first). Books inside a group are sorted alphabetically;
- 4. User should be able to add and delete books;
- 5. The system should be able to recommend a good book to the user:
 - a. A good book should be published at least 3 years ago or earlier;
 - b. From all these books you should pick ones with the highest rating;
 - c. If there are several good books matching the criteria pick one at random;

Book data:

- name (required, no longer than 100 characters);
- list of authors (book should have at least one author);
- publication year (optional, greater than 1800);
- rating (optional, integer value from 0 to 10, 0 by default);
- ISBN (optional);

Data output structure sample:

- Recommended book
- 2020
 - o Book A
 - Book B
- 2018
 - Book I
 - o Book W
 - o Book Q
- 2015
 - o Book E
- Books without a year
 - o Book P

Additional functionality (optional to implement):

- 1. ISBN validation;
- 2. Ability to change the grouping criteria (group by rating, author);
- 3. Book editing;

Test data sample:

The Clean Coder: A Code of Conduct for Professional Programmers

Author: Martin, Robert Publication year: 2011

Rating: 9

ISBN: 978-0137081073

7 Habits Of Highly Effective People

Author: Covey, Stephen R. Publication year: 2004

Rating: 9

ISBN: 978-1863500296

The Color of Magic

Author: Pratchett, Terry Publication year: 2013

Rating: 8

ISBN: 9780062225672

Press Reset: Ruin and Recovery in the Video Game Industry

Author: Jason Schreier Publication year: 2021

Rating: 10

The Inmates Are Running the Asylum

Author: Cooper, Alan Publication year: 2004

Rating: 8

ISBN: 978-0672326141

The Three Musketeers

Author: Alexandre Dumas

Clean Code: A Handbook of Agile Software Craftsmanship

Author: Robert C. Martin Publication year: 2008

Rating: 9

ISBN: 978-0132350884

George and the Big Bang

Author: Hawking, Stephen; Hawking, Lucy

Publication year: 2013 ISBN: 978-1442440067