Assessment 10: Book Shelf



Objective

Create an Angular Application that stores and displays a list of books, allows a user to add books to the list and delete books from the list (screen shots at end).

Build Specifications

A. Create an interface called "Book" with three properties:

1. title: a string (5pts)

2. author: a string (5pts)

3. publicationYear: a number (5pts)

- B. Generate a service called "book":
 - Book service contains an array of book objects called "books"
 (5pts)
 - 2. Populate the array with at least 3 books (5pts)
 - 3. The book.service.ts has a method called getBooks that returns a book array (10pts)
- C. Generate and display a component called "book-list" (it will be a parent component of "book" see part 4)
 - 1. It will have the BookService injected as a dependency (5pts)
 - 2. It will have a book array called "books" that is populated by calling the service when it's initialized (5pts)
 - The user can add a book to the array by calling an "addBook" method when they fill out the title, author and publicationDate fields in the template (10pts)

- 4. The template also has the NgForOf directive on the book component selector to iterate over the list of books (5pts)
- 5. The component also has a method to delete a book that responds to the delete event emitted by the child book component (10pts)
- D. Generate a component called "book"
 - 1. It has an Input binding from the parent called "book" (10pts)
 - It has an Output binding called deleted that emits an event
 (10pts)
 - 3. It has a deleteBook method that triggers the deleted event emitter (10pts)

Sample Output

Add a book to your library: Title: Author: Pub. Year 0 Save Book Title: The Three-Body Problem Author: Lui Cixin Year Published: 2008 Delete Title: How the Light Gets In Author: Louise Penny Year Published: 2013 Delete Title: Confessions Author: Kanae Minato Year Published: 2008 Delete

Rubric

Build Spec #	Points Possible	Points Scored
A1 – title	5	
A2 – author	5	
A3 - publicationYear	5	
B1- book array	5	
B2- array contains 3 books	5	
B3 – getBooks method	10	
C1 – BookService injected	5	
C2 – Book array populated	5	
C3 – AddBook	10	
C4 – ngOfFor loop	5	
C5 - DeleteBook	10	
D1 - Input binding	10	
D2 - Output binding	10	
D3 – DeleteBook event	10	
Total	100	