

Code Challenge for Senior Ruby Software Engineer

Code Challenge

Problem Statement

You are tasked with creating a simple Ruby application that simulates a basic API for managing a collection of books. The API should allow you to perform the following operations:

1. Create a new book with a title, author, and publication year.
2. Retrieve a list of all books.
3. Retrieve a specific book by its ID.
4. Update a book's information (title, author, publication year).
5. Delete a book by its ID.

Requirements

Implement the API using Ruby (sinatra or rails).

Use an in-memory data structure (like an array or hash) to store the book records.

Ensure that the API handles errors gracefully (e.g., trying to retrieve or delete a book that does not exist).

Write unit tests for your API endpoints.

Constraints

The challenge should be completed in less than 30 minutes.

You may use any Ruby version that you are comfortable with.

External Resources

Sinatra Documentation: For building the API.

RSpec Documentation: For writing unit tests.

Postman: For testing your API endpoints.