

Workshop 11: Group Practice Problem 1

Design a REST API to retrieve all resources from a "books" collection.
Include:

CRUD operation	HTTP method	URI	Query parameters	Request Body	Response status	Response body
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Suppose you have a database of recipes of cuisines from around the world, each recipe has the following data: name, description, country, ratings, flavor notes (i.e. spicy, salty, etc.), among others.

Write the HTTP Book test/API to retrieve all recipes that are from 'China' and considered 'spicy'.

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If the text prompt is the word "run", would it return results with the words "running" or "ran"? Why or why not?

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Design query parameters to filter a movies collection by genre and director.

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Design a REST API for a music streaming app (like Spotify). The REST API should support the following operations:

- retrieve all artists that are available with text search
- retrieve all songs for a specific artist with text search
- add a new song to a specific artist
- retrieve a song by its unique ID
- update part of a specific song
- delete a song by its unique ID

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write 4 HTTP TESTS to retrieve the 'songs' collection, songs with any variant of the word 'love' in its lyrics, update the release year of songs released after 2000 to be '2026', and delete any song titled 'dream'.

song:

{

title: 'dream',

release: 2003,

lyrics: 'I love dreaming...'

}

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Create the MongoDB index needed to support the prior question. When you're done, write the Express.js endpoint to return all songs that include BOTH lyrics about 'love' and 'dreams'.