Assuming we have a Citizen Data like below:

{

"isCitizen": true,

"Name": "John Smith",

"ID": 123456,

"Children": {

"Mike Smith": 123457,

"Jessica Smith": 123458,

"Sarah Smith": 123459

},

"hasDrivingLicense": true

}

{

"isCitizen": false,

"Name": "Michael Tall",

"ID": 123461,

"Children": {

},

"hasDrivingLicense": false

}

{

"isCitizen": false,

"Name": "Joe Bloggs",

"ID": 123462,

"Children": {

"Sarah Bloggs": 123463

},

"hasDrivingLicense": true

} ...

Steps to achieve:

* Using Spring Boot and Java 11 implement the steps listed below.
* Fetch this data from a relational database using Spring Data JPA using ER.
* Write a REST API to deliver the data. API is expected to contain the endpoints below:
* Get citizen list as per a filter by isCitizen, Name (contains), Number of Children, hasDrivingLicense.
* Get specific citizen by ID. If no citizen with given ID exists then return proper HTTP response
* Add/Update a Citizen. ID is autogenerated by the system and is unique
* Children also should exist in the system as citizens. Otherwise return proper HTTP response.

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* Write a separate React frontend to filter and list the records
* Return number of records by the API and display on the page