**TOPIC:** Mongoose Populate and Reference

* For this assignment the session branch is **session/populate-reference**
* For the solution you have to create a new branch in your own repo- **assignment/populate-reference**
* Use your own Atlas database links to avoid issues. Use these collection names if you have already used the collections in previous assignments - **newBook**, **newAuthor**, **newPublisher**.
* A newAuthor document should look like this (no author\_id anymore - you can delete this from the schema)

{

\_id: ObjectId("61951bfa4d9fe0d34da86829"),

authorName:"Chetan Bhagat",

age:50,

address:"New Delhi",

rating: 2

}

* A newPublisher document looks like this.

{

\_id: ObjectId("61951bfa4d9fe0d34da86344"),

name: “Penguin”,

headQuarter: “New Delhi”,

}

* A newBook document should look like this. The author property is a reference to newAuthor collection.

{

\_id: ObjectId("61951bfa4d9fe0d34da86344"),

name:"Two states",

author:"61951bfa4d9fe0d34da86829",

price:50,

ratings:4.5,

publisher: "61951bfa4d9fe0d34da84523"

}

1. Write a POST api that creates an author from the details in request body

2. Write a POST api that creates a publisher from the details in the request body

3. Write a POST api that creates a book from the details in the request body. The api takes both the author and publisher from the request body.

In this api, you have to write a logic that validates the following :

1. The authorId is present in the request body. If absent send an error message that this detail is required
2. If present, make sure the authorId is a valid ObjectId in the author collection. A valid ObjectId in author collection means that a document must exist with this id. If not then send an error message that the author is not present.
3. The publisherId is present in the request body. If absent send an error message that this detail is required
4. If present, make sure the publisherId is a valid ObjectId in the publisher collection. If not then send an error message that the publisher is not present.

4. Write a GET api that fetches all the books along with their author details (you have to populate for this) as well the publisher details (you have to populate for this)