Task 1

API testing & steps

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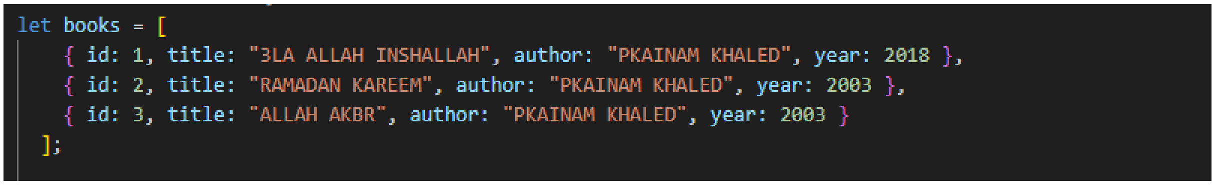
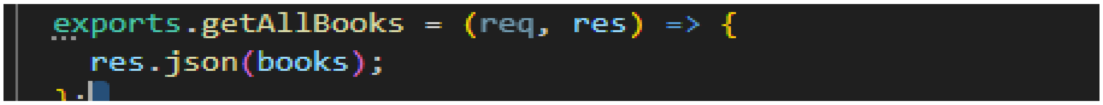
STEPS OF CODE:

Initializing a dictionary that contains a book using id,title and author and year.



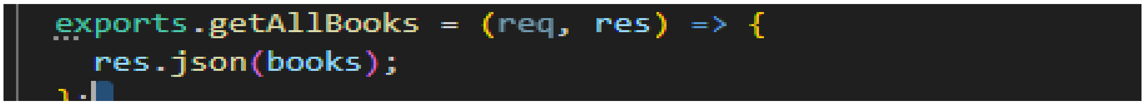
```
let books = [
    { id: 1, title: "3LA ALLAH INSHALLAH", author: "PKAINAM KHALED", year: 2018 },
    { id: 2, title: "RAMADAN KAREEM", author: "PKAINAM KHALED", year: 2003 },
    { id: 3, title: "ALLAH AKBR", author: "PKAINAM KHALED", year: 2003 }
  ];
```

Code of getting all the books.



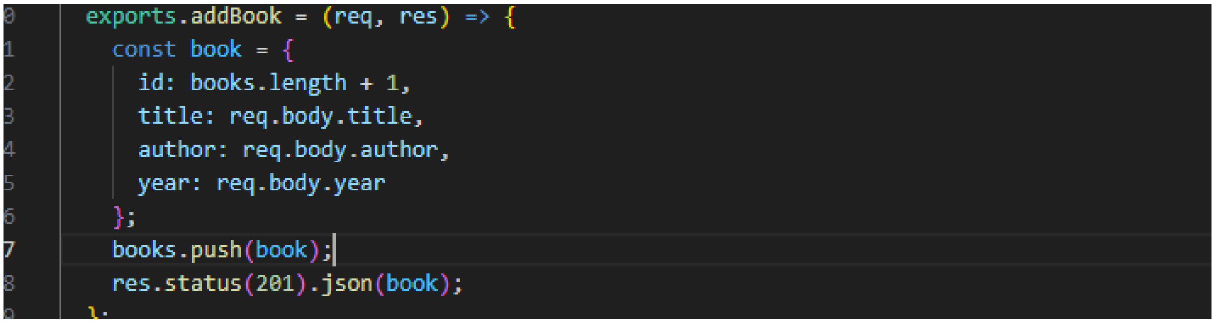
```
exports.getAllBooks = (req, res) => {
   res.json(books);
};
```

Code of getting a book by specific id.



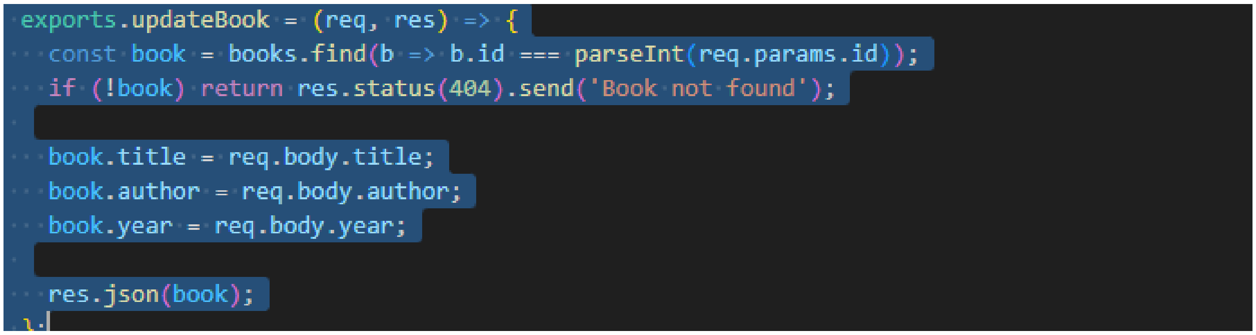
```
exports.getAllBooks = (req, res) => {
   res.json(books);
};
```

Code of adding a book.



```
exports.addBook = (req, res) => {
  const book = {
    id: books.length + 1,
    title: req.body.title,
    author: req.body.author,
    year: req.body.year
  };
  books.push(book);
  res.status(201).json(book);
};
```

Update book by ID.

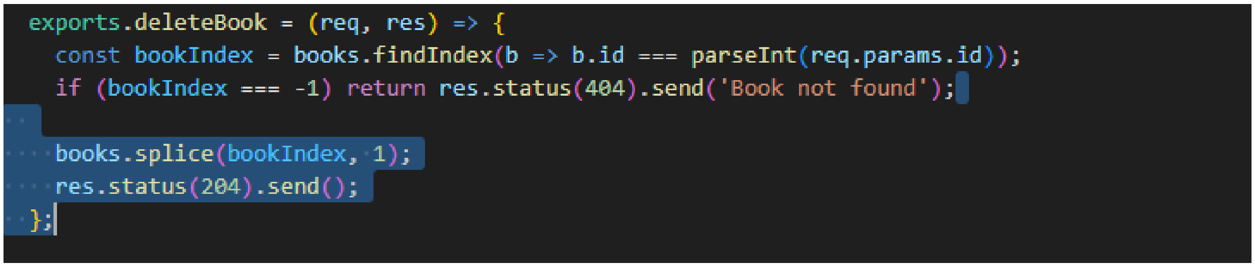


```
exports.updateBook = (req, res) => {
  const book = books.find(b => b.id === parseInt(req.params.id));
  if (!book) return res.status(404).send('Book not found');

  book.title = req.body.title;
  book.author = req.body.author;
  book.year = req.body.year;

  res.json(book);
};
```

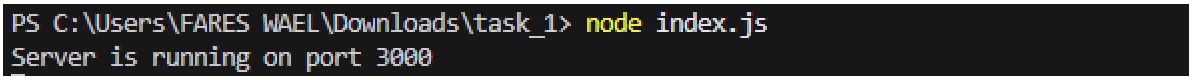
Deleting a book by ID.



```
exports.deleteBook = (req, res) => {
  const bookIndex = books.findIndex(b => b.id === parseInt(req.params.id));
  if (bookIndex === -1) return res.status(404).send('Book not found');

  books.splice(bookIndex, 1);
  res.status(204).send();
};
```

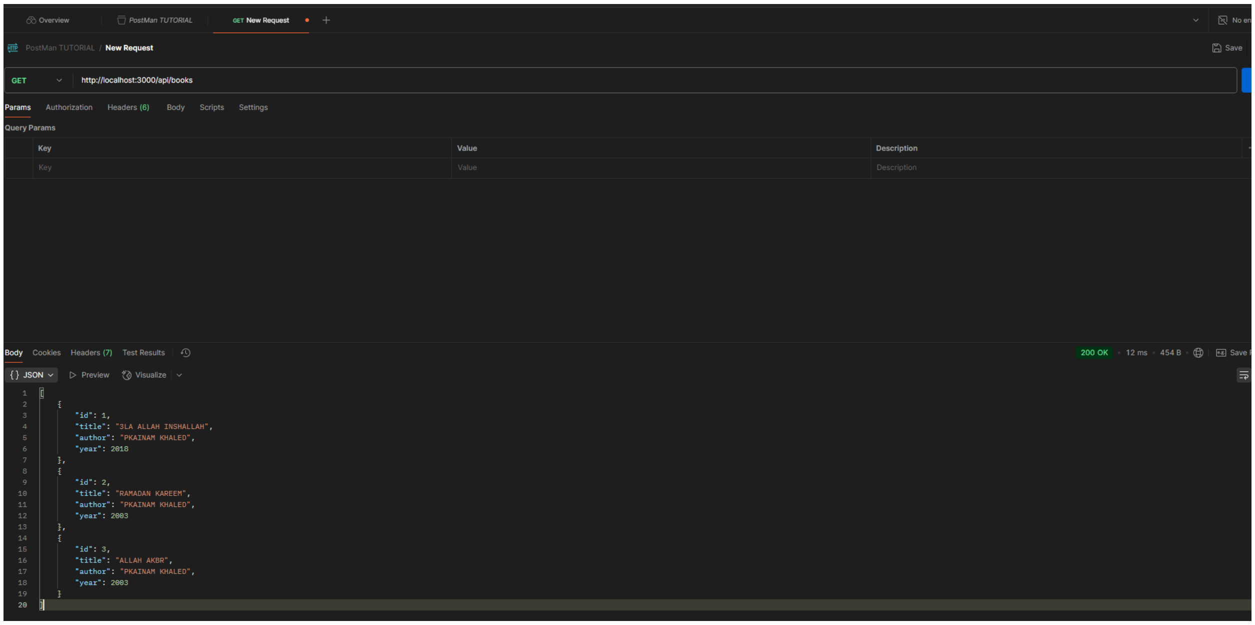
STEPS OF TESTING:



```
PS C:\Users\FARES WAEL\Downloads\task_1> node index.js
Server is running on port 3000
```

TESTING API'S ON POSTMAN:

- `GET http://localhost:3000/api/books`



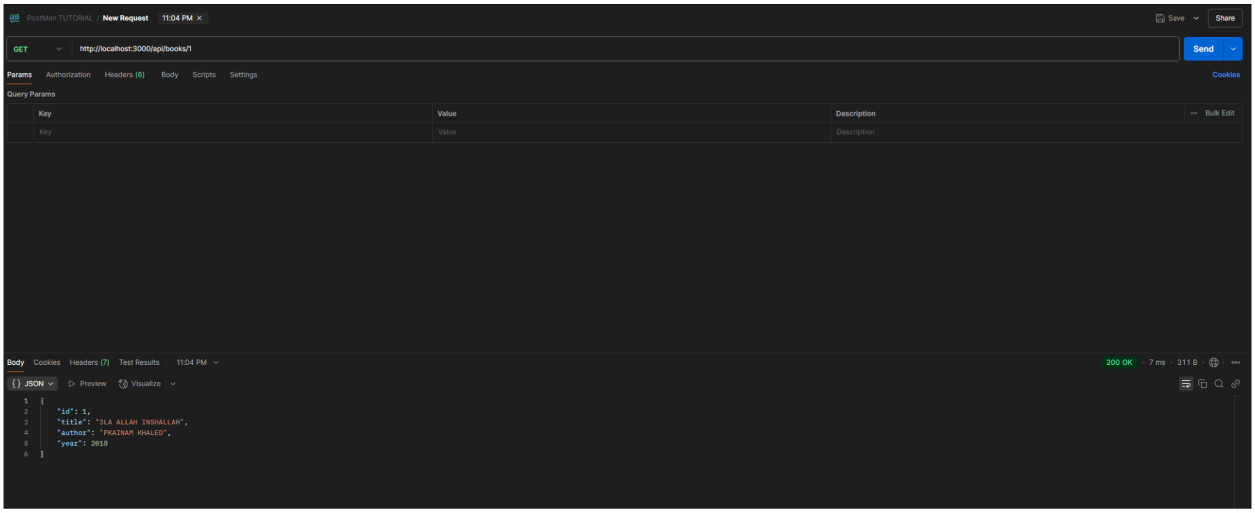
GET http://localhost:3000/api/books

200 OK • 12 ms • 454 B

```
[
    {
        "id": 1,
        "title": "3LA ALLAH INSHALLAH",
        "author": "PKAINAM KHALED",
        "year": 2018
    },
    {
        "id": 2,
        "title": "RAMADAN KAREEM",
        "author": "PKAINAM KHALED",
        "year": 2003
    },
    {
        "id": 3,
        "title": "ALLAH AKBR",
        "author": "PKAINAM KHALED",
        "year": 2003
    }
]
```

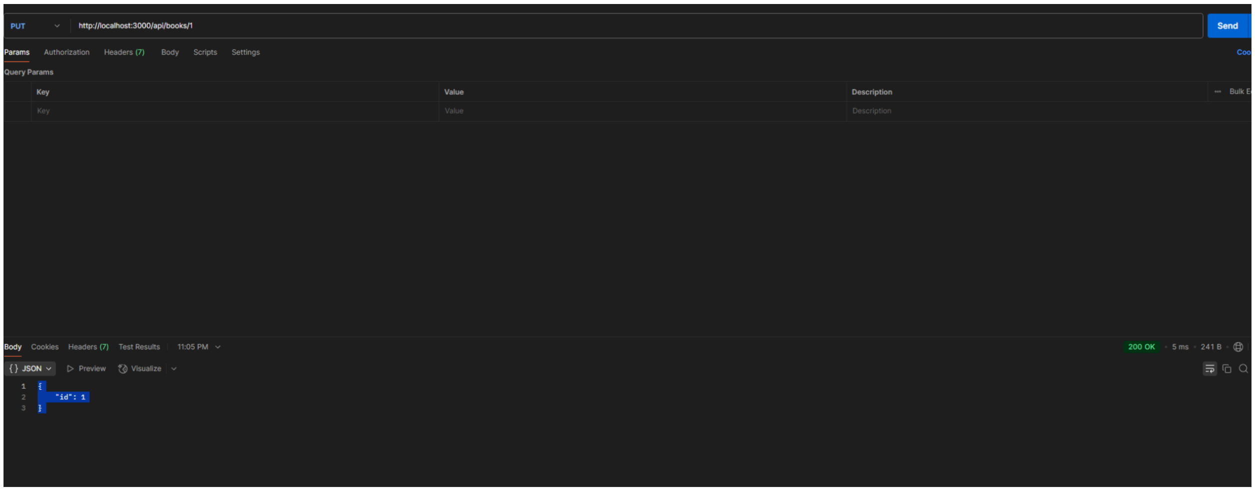
`GET http://localhost:3000/api/books/1`

- `GET http://localhost:3000/api/books/1`



```
{
    "id": 1,
    "title": "3LA ALLAH INSHALLAH",
    "author": "PKAINAM KHALED",
    "year": 2018
}
```

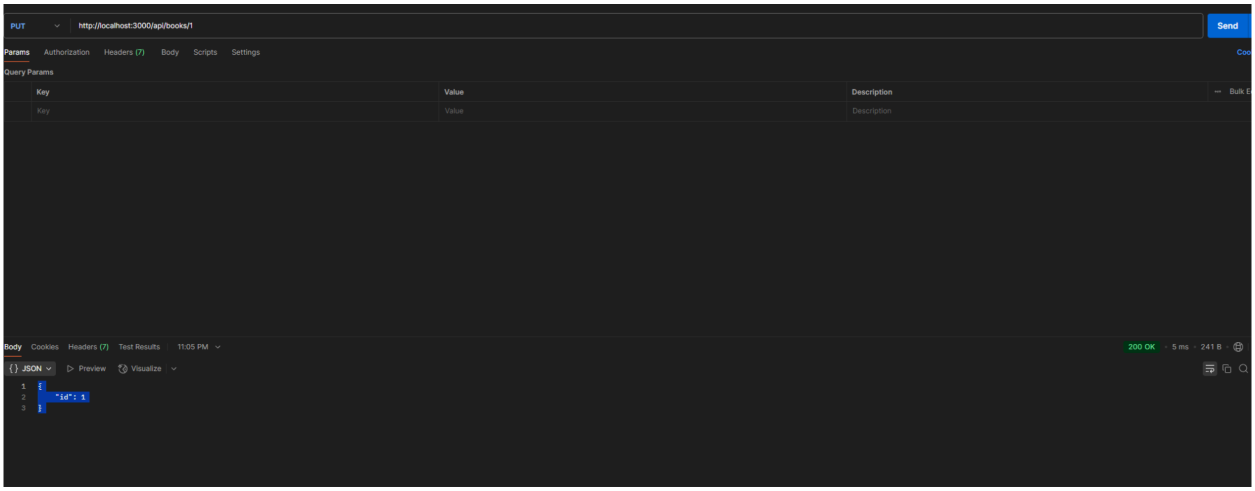
- `PUT http://localhost:3000/api/books/1`



```
{
    "id": 1
}
```

DELETE http://localhost:3000/api/books/1

- `DELETE http://localhost:3000/api/books/1`



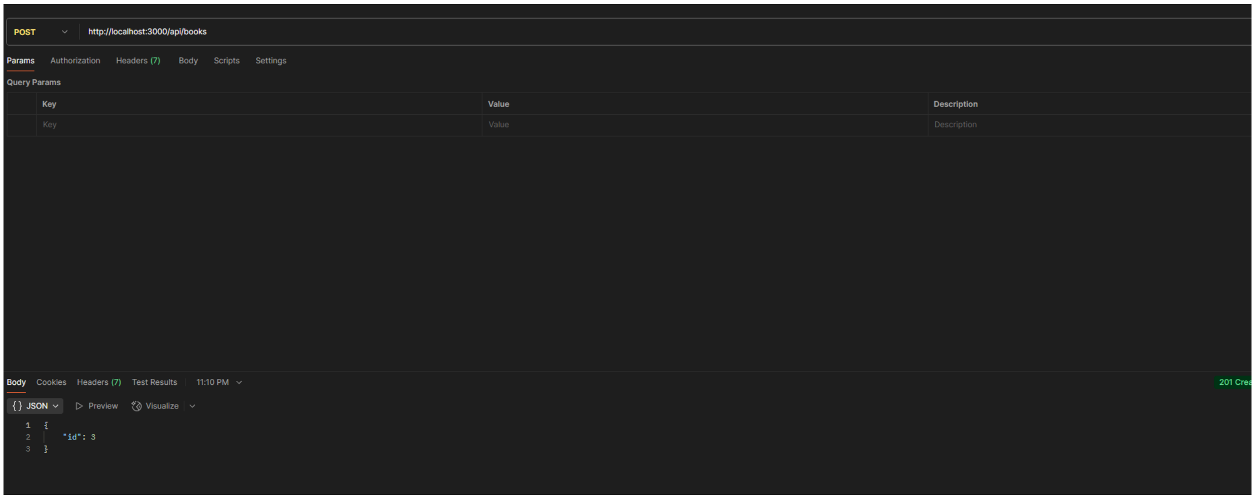
PUT http://localhost:3000/api/books/1

11:05 PM

200 OK · 5 ms · 241 B

```
{
    "id": 1
}
```

`POST http://localhost:3000/api/books`



POST http://localhost:3000/api/books

11:10 PM

201 Crea

```
{
    "id": 3
}
```