

API specification documentation

Section 2: Rest Api

Project Setup Local:-

I am using django rest framework for development. You need to install django in your machine.

1. `python3 -m pip3 install Django`
2. `python3 -m django --version`
3. goto project directory
4. `pip3 install requirement.txt`
5. `python3 manage.py makemigration`
6. `python3 manage.py migrate`
7. `python3 manage.py runserver`
8. use POSTMAN for using API's or goto url directly.

List of apis :-

1. <http://127.0.0.1:8000/myapi/books> for fetching all books
2. <http://127.0.0.1:8000/myapi/books/details?uuid=6065910> where uuid is book uuid for searchng book in db.
3. <http://127.0.0.1:8000/myapi/authors> for fetching all authors.

List of codes :-

1. 1000 (successfull)
2. 1001 (something went wrong)

List of short forms :-

1. `bo_id` = `book_id`
2. `ti` = `title`
3. `desc` = `description`
4. `au_id` = `author_id`

Request Response Cycle

1. GET, POST (type of request allowed)

Request

GET <http://127.0.0.1:8000/myapi/books>

Response (will be list of books)

```
{  
  
  "code": 1000,  
  
  "message": [  
    {  
  
      "bo_id": 2450966, (book_id)  
  
      "ti": "My new python book for everyone", (title)  
  
      "desc": "None", (description)  
  
      "au_id": 2 (author_id)  
    }  
  ]  
}
```

```
    },
    {
      "bo_id": 7794720,
      "ti": "Python for student",
      "desc": "python book",
      "au_id": 1
    },
    {
      "bo_id": 6065910,
      "ti": "Book of Eli",
      "desc": "this boot refers to book of god",
      "au_id": 4
    }
  ],
  "status": true,
  "rid": "4e839ecb1f5911ebb023c14960b931a7"
}
```

Request

POST <http://127.0.0.1:8000/myapi/books>

```
{
  "bo_id": 7794720,
  "ti": "Python for student",
  "desc": "python book",
  "au_id": 1
}
```

Response

```
{
  "code": 1000,
  "message": "Book Created",
  "status": "true",
}
```

```
"rid": 6f54b7531f5d11ebb023c14960b931a7  
}
```

2. GET, PUT, DELETE

Request

GET <http://127.0.0.1:8000/myapi/books/details?uuid=6065910> (uses key and value where key is uuid and value id book uuid)

Response

```
{  
  "code": 1000,  
  "message": {  
    "bo_id": 6065910,  
    "ti": "Book of Eli",  
    "desc": "this boot refers to book of god",  
    "au_id": 4,  
    "author_uuid": 7585119,  
    "first_name": "janardhan",  
    "last_name": "singh",  
    "email": "adj@daf.aef"  
  },  
  "status": true,  
  "rid": "24d157421f4d11ebb023c14960b931a7"  
}
```

Request

PUT <http://127.0.0.1:8000/myapi/books/details?uuid=2450966>

```
{  
  "code": 1000,  
  "message": {  
    "bo_id": 6065910,  
    "ti": "Book of Eli",  
    "desc": "My Book",
```

```
    "au_id": 4,  
  },  
  "status": true,  
  "rid": "24d157421f4d11ebb023c14960b931a7"  
}
```

Response

```
{  
  "code": 1000,  
  "message": "book with id '6065910' updated successfully",  
  "status": true,  
  "rid": "ca86678c1f5b11ebb023c14960b931a7"  
}
```

Request

DELETE <http://127.0.0.1:8000/myapi/books/details?uuid=6065910>

Response

```
{  
  "code": 1000,  
  "message": "book with id '6065910' deleted successfully",  
  "status": true,  
  "rid": "047b8b791f5c11ebb023c14960b931a7"  
}
```

3. GET, POST

Request

GET <http://127.0.0.1:8000/myapi/authors> (will give the list of authors)

Response

```
{  
  "code": 1000,  
  "message": [  
    {
```

```
      "id": 1,
      "au_id": 3570681,
      "f_n": "janardhan",
      "l_n": "singh",
      "email": "abc@sadf.adf",
      "nt": "none"
    },
    {
      "id": 2,
      "au_id": 2392070,
      "f_n": "kumar",
      "l_n": "rahul",
      "email": "abc@sadf.ca",
      "nt": "Nul"
    },
    {
      "id": 4,
      "au_id": 7585119,
      "f_n": "janardhan",
      "l_n": "singh",
      "email": "adj@daf.aef",
      "nt": null
    },
    "status": true,
    "rid": "6f54b7531f5d11ebb023c14960b931a7"
  }
}
```

Request

POST <http://127.0.0.1:8000/myapi/authors>

```
{
  "f_n": "janardhan",
```

```
"l_n": "singh",  
"email": "jds@daf.aef",  
}
```

Response

```
{  
  "code": "1000",  
  "message": "author created with id [3840210]",  
  "status": "true",  
  "rid": "6f54b7531f5d11ebb023c14960b931a7"  
}
```