

Appointy Instagram Back End API

19BCE1191

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Key points of the System Design:

Entity Relationship: One to Many

The Posts Collection has a reference to the user id, which makes use of one to many relationship.

Pagination:

To achieve pagination, I have added another parameter in the URI For listing all the posts of user pagination, I have added an extra URI path parameter, which is the page number.

Page number 0 or no page number will fetch 1st page with page size currently defined as 3, which can be configured in the code.

The Code and what each function does and how the structures are defined is clearly mentioned as comments in the code file.

Sample output:

Creating User

Save 



Send

Cookies

Beautify

```
1  ... "Id": "appointy_1",
2  ... "Name": "appiont",
3  ... "Email": "appointy@gmail.com",
4  ... "Password": "ap@123"
5
6
```

200 OK 4 ms 169 B Save Response

```
1  UserId appointy_i created successfully for appoint
2  |
```

Retrieving user with UserId

Overview

GET http://localhost:80...

+ ...

No Environment

http://localhost:8080/users/appointy_i

Save

</>

GET

http://localhost:8080/users/appointy_i

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Beautify

```
1  {
2    ... "Id": "appointy_i",
3    ... "Name": "appiont",
4    ... "Email": "appointy@gmail.com",
5    ... "Password": "ap@123"
6  }
```

Body

Cookies

Headers (3)

Test Results

200 OK 11 ms 374 B [Save Response](#)

Pretty

Raw

Preview

Visualize

Text

```
1  User found:
2  [{ "Email": "appointy@gmail.com", "Id": "appointy_i", "Name": "appiont",
   "Password": "7e290d9baf2ad44e938487bb20bfb6d74948d67d0003f01250b7aeb4611bf927a8e260096e14d1d3e6ff866d0
   0c6f7c82e4a112809620bcb680bf58e4ea2556c", "_id": "6161d1f55dfd9c95068762d0"} ]
3  |
```

Creating a Post

http://localhost:8080/posts

Save

POST

http://localhost:8080/posts

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

☐ none

☐ form-data

☐ x-www-form-urlencoded

☒ raw

☐ binary

☐ GraphQL

JSON

Beautiful

```
1 {
2   ... "Caption": "Hi this is my first post",
3   ... "ImageUrl": "https://google.com/appointy",
4   ... "UserId": "appointy_i"
5 }
```

Body

Cookies

Headers (3)

Test Results

200 OK 5 ms 186 B

Save Response

Pretty

Raw

Preview

Visualize

Text

```
1 Post "Hi this is my first post" created successfully for appointy_i
2 |
```

Mongo

Users:

appointyMongoDB.users

Documents

appointyMongoDB.users

DOCUMENTS 8

TOTAL SIZE 1.3KB

AVG. SIZE 165B

INDEXES 1

TOTAL SIZE 36.0KB

AVG. SIZE 36.0KB

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

FILTER { field: 'value' }

OPTIONS

FIND

RESET

ADD DATA

VIEW

Displaying documents 1 - 8 of 8

REFRESH

_id: ObjectId("61619b422fa514dfb9ed6ef2")

Id: "venkat_bla_reddy"

Name: "Blah"

Email: "vvvv"

Password: "dddd"

_id: ObjectId("61619e1c56c2be2610ad1339")

Id: "hash_reddy"

Name: "PassHash Test"

Email: "vvvv"

Password: "3971ebf11a18bce250a282e6ff78739c9a0f7bcb9bc3552fe9cd8191e4a4da573bb389..."

_id: ObjectId("6161c5395dfd9c95068762cc")

Id: "final_dummy_tester"

Name: "finalizer"

Email: "finalizer@gmail.com"

Password: "6b3b10576d3cf10fa47abfb3555b037836310af88b99659765f0f011a67fc26cd6a3ce..."

_id: ObjectId("6161d1f55dfd9c95068762d0")

Id: "appointy_i"

Name: "appoint"

Email: "appointy@gmail.com"

Password: "7e290d9baf2ad44e938487bb20bf6d74948d67d0003f01250b7aeb4611bf927a8e260..."

appointyMongoDB.posts Documents

appointyMongoDB.posts

DOCUMENTS 17 TOTAL SIZE 2.9KB AVG. SIZE 174B INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' } OPTIONS FIND RESET ↺ ...

ADD DATA VIEW [] [] []

Displaying documents 1 - 17 of 17 < > REFRESH

```
{
  "_id": ObjectId("6161998c6c4315f4210a286b"),
  "Id": 389524994072,
  "Caption": "This is a Test!",
  "ImageURL": "http://www.we.com",
  "PostedTS": "",
  "UserId": "venkat_reddy"
}
```

```
{
  "_id": ObjectId("61619a0478765ecc14cde1eb"),
  "Id": 389525024400,
  "Caption": "This is a Test!",
  "ImageURL": "http://www.we.com",
  "PostedTS": "Saturday, 09-Oct-21 19:02:47 IST",
  "UserId": "venkat_reddy"
}
```

```
{
  "_id": ObjectId("6161ad22a70f7592498e4d2f"),
  "Id": 389526192198,
  "Caption": "Pagination Test 1",
  "ImageURL": "https://www.insta.com",
  "PostedTS": "Saturday, 09-Oct-21 20:24:26 IST",
  "UserId": "venkat_reddy"
}
```

```
{
  "_id": ObjectId("6161ad2ea70f7592498e4d30"),
  "Id": 389526195119,
  "Caption": "Pagination Test 2",
  "ImageURL": "https://www.insta.com",
  "PostedTS": "Saturday, 09-Oct-21 20:24:38 IST",
  "UserId": "venkat_reddy"
}
```

Retrieving the post with postID

Overview GET http://localhost:80... Release Notes + ... No Environment

http://localhost:8080/posts/389528509167 Save

GET http://localhost:8080/posts/389528509167 Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   ... "Caption": "Hi this is my first post",
3   ... "ImageURL": "https://google.com/appointy",
4   ... "UserId": "appointy_i"
5 }
```

Body Cookies Headers (3) Test Results 200 OK 7 ms 337 B Save Response

Pretty Raw Preview Visualize Text

```
1 Post message is:
2 [{"Caption": "Hi this is my first post", "Id": "389528509167", "ImageURL": "https://google.com/appointy",
   "PostedTS": "Saturday, 09-Oct-21 23:06:24 IST", "UserId": "appointy_i", "_id": "6161d3185dfd9c95068762d3"}]
3
```

Pagination

Page 1

http://localhost:8080/posts/users/venkat_reddy

GET http://localhost:8080/posts/users/venkat_reddy

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   ... "Caption": "Hi this is my first post",
3   ... "ImageURL": "https://google.com/appointy",
4   ... "UserId": "appointy_i"
}
```

Body Cookies Headers (3) Test Results 200 OK 5 ms 703 B Save Response

Pretty Raw Preview Visualize Text

```
1 Users posts are:
2 [{"Caption": "Pagination Test 10", "Id": "389526202598", "ImageURL": "https://www.insta.com",
  "PostedTS": "Saturday, 09-Oct-21 20:25:09 IST", "UserId": "venkat_reddy",
  "_id": "6161ad4da70f7592498e4d38"}, {"Caption": "Pagination Test 9", "Id": "389526201690",
  "ImageURL": "https://www.insta.com", "PostedTS": "Saturday, 09-Oct-21 20:25:05 IST",
  "UserId": "venkat_reddy", "_id": "6161ad49a70f7592498e4d37"}, {"Caption": "Pagination Test 8",
  "Id": "389526200876", "ImageURL": "https://www.insta.com", "PostedTS": "Saturday, 09-Oct-21 20:25:02 IST",
  "UserId": "venkat_reddy", "_id": "6161ad46a70f7592498e4d36"}]
3
```

Page 2

http://localhost:8080/posts/users/venkat_reddy/2

GET http://localhost:8080/posts/users/venkat_reddy/2

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   ... "Caption": "Hi this is my first post",
3   ... "ImageURL": "https://google.com/appointy",
4   ... "UserId": "appointy_i"
}
```

Body Cookies Headers (3) Test Results 200 OK 3 ms 702 B Save Response



Pretty Raw Preview Visualize Text

```
1 Users posts are:
2 [{"Caption": "Pagination Test 7", "Id": "389526199974", "ImageURL": "https://www.insta.com",
  "PostedTS": "Saturday, 09-Oct-21 20:24:58 IST", "UserId": "venkat_reddy",
  "_id": "6161ad42a70f7592498e4d35"}, {"Caption": "Pagination Test 6", "Id": "389526199106",
  "ImageURL": "https://www.insta.com", "PostedTS": "Saturday, 09-Oct-21 20:24:55 IST",
  "UserId": "venkat_reddy", "_id": "6161ad3fa70f7592498e4d34"}, {"Caption": "Pagination Test 5",
  "Id": "389526198283", "ImageURL": "https://www.insta.com", "PostedTS": "Saturday, 09-Oct-21 20:24:51 IST",
  "UserId": "venkat_reddy", "_id": "6161ad3ba70f7592498e4d33"}]
3
```


Page 3

http://localhost:8080/posts/users/venkat_reddy/3

Save



GET

http://localhost:8080/posts/users/venkat_reddy/3

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

☐ none

☐ form-data

☐ x-www-form-urlencoded

☒ raw

☐ binary

☐ GraphQL

JSON

Beautify

```
1 {
2   ... "Caption": "Hi this is my first post",
3   ... "ImageURL": "https://google.com/appointy",
4   ... "UserId": "appointy_i"
5 }
```

Body

Cookies

Headers (3)

Test Results

200 OK 3 ms 702 B

Save Response

Pretty

Raw

Preview

Visualize

Text



```
1 Users posts are:
2 [{"Caption": "Pagination Test 4", "Id": 389526197350, "ImageURL": "https://www.insta.com",
   "PostedTS": "Saturday, 09-Oct-21 20:24:47 IST", "UserId": "venkat_reddy",
   "_id": "6161ad37a70f7592498e4d32"}, {"Caption": "Pagination Test 3", "Id": 389526196057,
   "ImageURL": "https://www.insta.com", "PostedTS": "Saturday, 09-Oct-21 20:24:42 IST",
   "UserId": "venkat_reddy", "_id": "6161ad32a70f7592498e4d31"}, {"Caption": "Pagination Test 2",
   "Id": 389526195119, "ImageURL": "https://www.insta.com", "PostedTS": "Saturday, 09-Oct-21 20:24:38 IST",
   "UserId": "venkat_reddy", "_id": "6161ad2ea70f7592498e4d30"}]
3
```

Page 4

http://localhost:8080/posts/users/venkat_reddy/4

Save

GET

http://localhost:8080/posts/users/venkat_reddy/4

Send

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON**

Beautify

```
1 {
2   ... "Caption": "Hi this is my first post",
3   ... "ImageURL": "https://google.com/appointy",
4   ... "UserId": "appointy_i"
```

Body Cookies Headers (3) Test Results

200 OK 5 ms 658 B Save Response

Pretty

Raw

Preview

Visualize

Text

```
1 Users posts are:
2 [{"Caption": "Pagination Test 1", "Id": "389526192198", "ImageURL": "https://www.insta.com",
   "PostedTS": "Saturday, 09-Oct-21 20:24:26 IST", "UserId": "venkat_reddy",
   "_id": "6161ad22a70f7592498e4d2f"}, {"Caption": "This is a Test!", "Id": "389525024400", "ImageURL": "http://
www.we.com", "PostedTS": "Saturday, 09-Oct-21 19:02:47 IST", "UserId": "venkat_reddy",
   "_id": "61619a0478765ecc14cde1eb"}, {"Caption": "This is a Test!", "Id": "389524994072", "ImageURL": "http://
www.we.com", "PostedTS": "", "UserId": "venkat_reddy", "_id": "6161998c6c4315f4210a286b"}]
3
```