Tree Structure of Project

```
v ☐ src
  v ☐ main
    v ☐ kotlin
      v ☐ com.tandon_ksb.backend_kotlin_springboot
        v ☐ controller
            ☐ AuthController
            ☐ NoteController.kt
            ☐ StatusController
        v ☐ database
          v ☐ model
              ☐ Note
              ☐ RefreshToken
              ☐ User
          v ☐ repository
              ☐ NoteRepository
              ☐ RefreshTokenRepository
              ☐ UserRepository
        v ☐ security
            ☐ AuthService
            ☐ HashEncoder
            ☐ JwtAuthFilter
            ☐ JwtService
            ☐ SecurityConfig
          ☐ BackendKotlinSpringbootApplication.kt
          ☐ GlobalValidationHandler
    v ☐ resources
        ☐ application.properties
  v ☐ test
    v ☐ kotlin
      v ☐ com.tandon_ksb.backend_kotlin_springboot
          ☐ BackendKotlinSpringbootApplicationTests
  ☐ .gitattributes
  ☐ .gitignore
  ☐ build.gradle.kts
  ☐ gradlew
  ☐ gradlew.bat
```

Step 1: Registration

http://localhost:8080/auth/register

Save ∨   Share

POST ∨   http://localhost:8080/auth/register   Send ∨

Params   Authorization   Headers (9)   Body •   Scripts   Settings   Cookies

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

```
1  {
2      "email" : "abc@gmail.com",
3      "password" : "Abcd12345"
4  }
```

Body   Cookies (1)   Headers (10)   Test Results   ⟲   200 OK • 247 ms • 293 B • ⊕ | ⦁⦁⦁

▤ Raw ∨   ▷ Preview   Visualize ∨

1

Step 2: Login

HTTP http://localhost:8080/auth/login

Save ⌄ | Share

POST ⌄ | http://localhost:8080/auth/login | Send ⌄

Params | Authorization | Headers (9) | Body • | Scripts | Settings | Cookies

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL | JSON ⌄ | Beautify

```
1  {
2      "email" : "abc@gmail.com",
3      "password" : "Abcd12345"
4  }
```

Body | Cookies (1) | Headers (11) | Test Results | ⟲ | 200 OK • 279 ms • 726 B • 🌐 • ⋯

{ } JSON ⌄ | ▷ Preview | Visualize | ⌄

```
1  {
2      "accessToken": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJlYzUwZWEiLCJ0eXBlIjoiYWNjZXNzIiwiaWF0IjoxNzUwMDM1ODQwLCJleHAiOjE3NTAwMzY3NDB9.
       ASq9fHThPVTg0oKJeBRnNRSJEeXGLW5QPesqInBwz5s",
3      "refreshToken": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJlYzUwZWEiLCJ0eXBlIjoicmVmcmVzaCIsImlhdCI6MTc1MDAzNTg0MCwiZXhwIjoxNzUxMzMxODQwfQ.
       vL_PDXk1ra5NfN4ORAYhyQl1Hpgiu0_5bA6OyjOcuWc"
4  }
```

Step 3: Add record using POST request

HTTP http://localhost:8080/notes

Save

POST http://localhost:8080/notes Send

Params   Authorization   Headers (10)   Body ●   Scripts   Settings   Cookies

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

```
1  {
2      "title": "n00",
3      "content": "this is note n00",
4      "color": 186568
5  }
```

Body   Cookies (1)   Headers (11)   Test Results   200 OK · 121 ms · 467 B · ⊕ · •••

{} JSON ∨   ▷ Preview   Visualize ∨

```
1  {
2      "id": "684f6edb93eb79294bec50ec",
3      "title": "n00",
4      "content": "this is note n00",
5      "color": 186568,
6      "createdAt": "2025-06-16T01:09:47.870979Z"
7  }
```

Use GET call

HTTP http://localhost:8080/notes

Save ⌄ | Share

| GET ⌄ | http://localhost:8080/notes | | Send ⌄ |

Params   Authorization   **Headers (8)**   Body   Scripts   Settings   Cookies

Headers 👁 7 hidden

	Key ⌄	Value	Description	⦾⦾⦾ Bulk Edit Presets ⌄
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI...		
	Key	Value	Description	

Body   Cookies (1)   Headers (11)   Test Results   ⟲   **200 OK** • 40 ms • 466 B • 🌐 | ⦾⦾⦾

{} JSON ⌄   ▷ Preview   Visualize | ⌄

```
1  [
2      {
3          "id": "684f6edb93eb79294bec50ec",
4          "title": "n00",
5          "content": "this is note n00",
6          "color": 186568,
7          "createdAt": "2025-06-16T01:09:47.870Z"
8      }
9  ]
```

http://localhost:8080/notes

Save ⌄   Share

GET ⌄   http://localhost:8080/notes   Send ⌄

Params   Authorization   Headers (8)   Body   Scripts   Settings   Cookies

Headers   👁 7 hidden

	Key	Value	Description	⚬⚬⚬ Bulk Edit Presets ⌄
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJI...		
	Key	Value	Description	

Body   Cookies (1)   Headers (11)   Test Results   🕐   200 OK · 114 ms · 737 B · 🌐   ⚬⚬⚬

{} JSON ⌄   ▷ Preview   Visualize ⌄

```
 1  [
 2      {
 3          "id": "684f6edb93eb79294bec50ec",
 4          "title": "n00",
 5          "content": "this is note n00",
 6          "color": 186568,
 7          "createdAt": "2025-06-16T01:09:47.870Z"
 8      },
 9      {
10          "id": "684f6f3993eb79294bec50ed",
11          "title": "n01",
12          "content": "this is note n01 delhi",
13          "color": 345,
14          "createdAt": "2025-06-16T01:11:21.885Z"
15      },
16      {
17          "id": "684f6f4893eb79294bec50ee",
18          "title": "n02",
19          "content": "this is note n02 new york",
20          "color": 565,
21          "createdAt": "2025-06-16T01:11:36.728Z"
22      }
23  ]
```

Fetch records (notes) of a user

http://localhost:8080/notes?ownerID=684f6d6e93eb79294bec50ea

Save   Share

GET   http://localhost:8080/notes?ownerID=684f6d6e93eb79294bec50ea   Send

Params ●   Authorization   Headers (8)   Body   Scripts   Settings   Cookies

Headers   👁 7 hidden

	Key	Value	Description		Bulk Edit Presets ∨
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJI...			
	Key	Value	Description		

Body   Cookies (1)   Headers (11)   Test Results   🕓   200 OK · 135 ms · 1007 B · 🌐 · •••

{} JSON ∨   ▷ Preview   🔅 Visualize   ∨

Fetch Records by ownerID

```
 1  [
 2      {
 3          "id": "684f6edb93eb79294bec50ec",
 4          "title": "n00",
 5          "content": "this is note n00",          ←
 6          "color": 186568,
 7          "createdAt": "2025-06-16T01:09:47.870Z"
 8      },
 9      {
10          "id": "684f6f3993eb79294bec50ed",
11          "title": "n01",
12          "content": "this is note n01 delhi",
13          "color": 345,
14          "createdAt": "2025-06-16T01:11:21.885Z"
15      },
16      {
17          "id": "684f6f4893eb79294bec50ee",
18          "title": "n02",
19          "content": "this is note n02 new york",
20          "color": 565,
21          "createdAt": "2025-06-16T01:11:36.728Z"
22      },
23      {
24          "id": "684f6fae93eb79294bec50ef",
```

Delete a record

http://localhost:8080/notes/684f6edb93eb79294bec50ec

Save ⌄   Share

| DELETE ⌄ | http://localhost:8080/notes/684f6edb93eb79294bec50ec | Send ⌄ |

Params ●   Authorization   Headers (8)   Body   Scripts   Settings   Cookies

Headers   👁 7 hidden

	Key	Value	Description		Bulk Edit Presets ⌄
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJI...			
	Key	Value	Description		

Body   Cookies (1)   Headers (10)   Test Results   ⟳   200 OK · 169 ms · 293 B · ⊕ · ⚬⚬⚬

⊞ Raw ⌄   ▷ Preview   ⟲ Visualize ⌄

1

GET   http://localhost:8080/notes?ownerID=684f6d6e93eb79294bec50ea   Send

Params ●   Authorization   Headers (8)   Body   Scripts   Settings   Cookies

Headers   👁 7 hidden

	Key	Value	Description	••• Bulk Edit Presets ⌄
☑	Authorization	Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJI...		
	Key	Value	Description	

Body   Cookies (1)   Headers (11)   Test Results   🕐   200 OK · 67 ms · 876 B · 🌐 · •••

{} JSON ⌄   ▷ Preview   👁 Visualize   ⌄   ⇄ ≡ 🔍 ⎘ 🔗

Record Deleted with title n00

```
1  [
2      {
3          "id": "684f6f3993eb79294bec50ed",
4          "title": "n01",
5          "content": "this is note n01 delhi",
6          "color": 345,
7          "createdAt": "2025-06-16T01:11:21.885Z"
8      },
9      {
10         "id": "684f6f4893eb79294bec50ee",
11         "title": "n02",
12         "content": "this is note n02 new york",
13         "color": 565,
14         "createdAt": "2025-06-16T01:11:36.728Z"
15     },
16     {
17         "id": "684f6fae93eb79294bec50ef",
18         "title": "n03",
19         "content": "this is note n03 paris",
20         "color": 876,
21         "createdAt": "2025-06-16T01:13:18.936Z"
22     },
23     {
```

Generate Access Token

http://localhost:8080/auth/refresh

Save | Share

POST | http://localhost:8080/auth/refresh | Send

Params | Authorization | Headers (9) | Body ● | Scripts | Settings | Cookies

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON ∨ | Beautify

```
1  {
2      "refreshToken": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJlYzUwZWEiLCJ0eXBlIjoicmVmcmVzaCIsImlhdCI6MTc1MDAzNTg0MCwiZXhwIjoxNzUxMzMxODQwfQ.
        vL_PDXk1ra5NfN4ORAYhyQl1Hpgiu0_5bA6OyjOcuWc"
3  }
```

Body | Cookies (1) | Headers (11) | Test Results | ⟲ | 200 OK · 273 ms · 726 B · ⊕ · •••

{ } JSON ∨ | ▷ Preview | ✦ Visualize ∨ | ⇄ | ▽ | 🔍 | ⧉ | 🔗

```
1  {
2      "accessToken": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJlYzUwZWEiLCJ0eXBlIjoiYWNjZXNzIiwiaWF0IjoxNzUwMDM2OTc2LCJleHAiOjE3NTAwMzc4NzZ9.
        m3o3rDOjRLY9lvlMjqIJhf4JK3FQ4YZjiuUcYHHDBW0",
3      "refreshToken": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI2ODRmNmQ2ZTkzZWI3OTI5NGJlYzUwZWEiLCJ0eXBlIjoicmVmcmVzaCIsImlhdCI6MTc1MDAzNjk3NiwiZXhwIjoxNzUxMzMyOTc2fQ.
        LrXTnzBfvCSB68b86pkPyqfhUqj-wOo7H7a29LCd6GY"
4  }
```

Invalid Credentials

HTTP **http://localhost:8080/auth/register**   💾 Save ⌄   Share

| POST ⌄ | http://localhost:8080/auth/register | Send ⌄ |

Params   Authorization   Headers (9)   **Body** ●   Scripts   Settings   **Cookies**

○ none   ○ form-data   ○ x-www-form-urlencoded   ⦿ raw   ○ binary   ○ GraphQL   **JSON** ⌄   **Beautify**

```
1  {
2      "email" : "iyqiueyqidyiuq",
3      "password" : "12"
4  }
```

Body   Cookies (1)   Headers (10)   Test Results   🕓   **400 Bad Request** • 15 ms • 462 B • ⊕ •••

{ } JSON ⌄   ▷ Preview   Visualize ⌄

```
1  {
2      "errors": [
3          "Password must be at least 9 characters long and contain at least one digit, uppercase and lowercase character.",
4          "Invalid email format"
5      ]
6  }
```

MongoDB Compass Interface

tandonExpCKO

VERSION 8.0.9   REGION AWS Mumbai (ap-south-1)

Overview   Real Time   Metrics   **Collections**   Atlas Search   Query Insights   Performance Advisor   Online Archive   Cmd Line Tools   Infrastructure As Code

DATABASES: 1 COLLECTIONS: 3

PREVIEW New Data Explorer ⚪   📊 VISUALIZE YOUR DATA   🔄 REFRESH

+ Create Database

🔍 Search Namespaces

▾ notes
  | notes
  refresh_tokens
  users

notes.notes

STORAGE SIZE: 36KB   LOGICAL DATA SIZE: 772B   TOTAL DOCUMENTS: 4   INDEXES TOTAL SIZE: 36KB

Find   Indexes   Schema Anti-Patterns ⓘ   Aggregation   Search Indexes

Generate queries from natural language in Compass ⧉

INSERT DOCUMENT

Filter ⧉   Type a query: { field: 'value' }   Reset Apply Options ▸

```
_id: ObjectId('684f6edb93eb79294bec50ec')
title : "n00"
content : "this is note n00"
color : 186568
createdAt : 2025-06-16T01:09:47.870+00:00
ownerId : ObjectId('684f6d6e93eb79294bec50ea')
_class : "com.tandon_ksb.backend_kotlin_springboot.database.model.Note"
```

```
_id: ObjectId('684f6f3993eb79294bec50ed')
title : "n01"
content : "this is note n01 delhi"
color : 345
createdAt : 2025-06-16T01:11:21.885+00:00
ownerId : ObjectId('684f6d6e93eb79294bec50ea')
_class : "com.tandon_ksb.backend_kotlin_springboot.database.model.Note"
```

```
_id: ObjectId('684f6f4893eb79294bec50ee')
title : "n02"
content : "this is note n02 new york"
color : 565
createdAt : 2025-06-16T01:11:36.728+00:00
ownerId : ObjectId('684f6d6e93eb79294bec50ea')
_class : "com.tandon_ksb.backend_kotlin_springboot.database.model.Note"
```

notes.users

STORAGE SIZE: 20KB   LOGICAL DATA SIZE: 201B   TOTAL DOCUMENTS: 1   INDEXES TOTAL SIZE: 20KB

Find   Indexes   Schema Anti-Patterns 0   Aggregation   Search Indexes

Generate queries from natural language in Compass ⬈   INSERT DOCUMENT

Filter ⬈   Type a query: { field: 'value' }   Reset   Apply   Options ▸

QUERY RESULTS: **1-1 OF 1**

```
_id: ObjectId('684f6d6e93eb79294bec50ea')
email : "abc@gmail.com"
hashedPassword : "$2a$10$CQIc0TyyHrlfRdH0uNo46OY5tJZzlznb//TtmW4pWo2BULYr33716"
_class : "com.tandon_ksb.backend_kotlin_springboot.database.model.User"
```

Left sidebar

+ Create Database

🔍 Search Namespaces

▾ notes
    notes
    refresh_tokens
    | users

+ Create Database

🔍 Search Namespaces

▾ **notes**

   notes

   refresh_tokens ▸

   users

notes.refresh_tokens

STORAGE SIZE: 36KB   LOGICAL DATA SIZE: 1.96KB   TOTAL DOCUMENTS: 9   INDEXES TOTAL SIZE: 56KB

Find   Indexes   Schema Anti-Patterns ⓪   Aggregation   Search Indexes

Generate queries from natural language in Compass⬀

INSERT DOCUMENT

Filter ⬈   Type a query: { field: 'value' }   Reset   Apply   Options ▸

QUERY RESULTS: **1-1 OF 1**

```
_id: ObjectId('684f71f093eb79294bec50f1')
userId : ObjectId('684f6d6e93eb79294bec50ea')
expiresAt : 2025-07-01T01:22:56.267+00:00
hashedToken : "ra4qcf7FOwsLBxHPf/XI+B59uUwheU79XeBtHz3PbAI="
createdAt : 2025-06-16T01:22:56.267+00:00
_class : "com.tandon_ksb.backend_kotlin_springboot.database.model.RefreshToken"
```