SpringBoot + DynamoDB + CRUD Rest API + Swagger – Flight Demo Application

Download and started the DynamoDB locally using the below java command

```
D:\Projects\AWS\dynamodb_local_latest>java -jar -Djava.library.path=./DynamoDBLocal_lib -jar DynamoDBLocal.jar -sharedDb
Initializing DynamoDB Local with the following configuration:
Port:   8000
InMemory:       false
DbPath: null
SharedDb:       true
shouldDelayTransientStatuses:   false
CorsParams:     *
```

D:\Projects\AWS\dynamodb_local_latest>**java -jar -Djava.library.path=./DynamoDBLocal_lib -jar DynamoDBLocal.jar -sharedDb**

Initializing DynamoDB Local with the following configuration:

Port: 8000

InMemory: false

DbPath: null

SharedDb: true

shouldDelayTransientStatuses: false

CorsParams: *

Started Springboot

```
d.s.w.p.DocumentationPluginsBootstrapper : Found 1 custom documentation plugin(s)
s.d.s.w.s.ApiListingReferenceScanner     : Scanning for api listing references
s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8090 (http)
c.d.s.flight.FlightApplication           : Started FlightApplication in 19.076 seconds (JVM running for 22.8)
```

Access the API's using Swagger

swagger   default (/v2/api-docs) ∨   **Explore**

Flight Management Rest APIs

Flight Management Rest APIs

Created by Stanley
Contact the developer
Free

flight-controller : Flight Controller   Show/Hide | List Operations | Expand Operations

GET	/flightService/flights	API to Get all the Flights
POST	/flightService/flights	API to Create Flight Details
DELETE	/flightService/flights/{id}	API to Delete Flight Details by ID
GET	/flightService/flights/{id}	API to Get Flight Details by ID
PUT	/flightService/flights/{id}	API to Update Flight Details

[BASE URL: / , API VERSION: 1.0.0-SNAPSHOT]

Get All Flights API

Try it out!   Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:8090/flightService/flights'
```

Request URL

```
http://localhost:8090/flightService/flights
```

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
[
  {
    "id": "964db7a3-8fde-4944-9374-d83a2b221ab4",
    "airlineCode": "EK",
    "flightNo": "0410",
    "origin": "DXB",
    "destination": "SYD",
    "ticketPrice": 3560,
    "active": true
  },
  {
    "id": "6391a573-4a14-438a-b13c-797ea31ad5e1",
    "airlineCode": "AI",
    "flightNo": "0015",
    "origin": "DXB",
    "destination": "MAA",
    "ticketPrice": 550,
    "active": true
```

Create Flight

JSON Input

```
{
    "airlineCode": "EK",
    "flightNo": "0049",
    "origin": "DXB",
    "destination": "FRA",
    "ticketPrice": "1900.00",
    "active": "true"
}
```

Try it out!   Hide Response

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
        "airlineCode": "EK", \
        "flightNo": "0049", \
        "origin": "DXB", \
        "destination": "FRA", \
        "ticketPrice": "1900.00", \
        "active": "true" \
   }' 'http://localhost:8090/flightService/flights'
```

Request URL

```
http://localhost:8090/flightService/flights
```

Request Headers

```
{
  "Accept": "application/json"
}
```

Response Body

```
{
  "id": "a034d6b9-4a50-4434-8e24-58bec6701dab",
  "airlineCode": "EK",
  "flightNo": "0049",
  "origin": "DXB",
  "destination": "FRA",
  "ticketPrice": 1900,
  "active": true
}
```

Delete flight by id

Parameters

Parameter	Value	Description	Parameter Type	Data Type
id	c1fb15b2-5c6a-4147-b84e-92245037a56c	id	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
204	No Content		
401	Unauthorized		
403	Forbidden		
404	Flight record does not exist for the given id		

Try it out!   Hide Response

Curl

```
curl -X DELETE --header 'Accept: */*' 'http://localhost:8090/flightService/flights/c1fb15b2-5c6a-4147-b84e-92245037a56c'
```

Request URL

```
http://localhost:8090/flightService/flights/c1fb15b2-5c6a-4147-b84e-92245037a56c
```

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
no content
```

Get flight by id

Parameters

Parameter	Value	Description	Parameter Type	Data Type
id	964db7a3-8fde-4944-9374-d83a2b221ab4	id	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
403	Forbidden		
404	Flight record does not exist for the given id		

[Try it out!] Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:8090/flightService/flights/964db7a3-8fde-4944-9374-d83a2b221ab4'
```

Request URL

```
http://localhost:8090/flightService/flights/964db7a3-8fde-4944-9374-d83a2b221ab4
```

Request Headers

```
{
  "Accept": "*/*"
}
```

Response Body

```
{
  "id": "964db7a3-8fde-4944-9374-d83a2b221ab4",
  "airlineCode": "EK",
  "flightNo": "0410",
  "origin": "DXB",
  "destination": "SYD",
  "ticketPrice": 3560,
  "active": true
}
```

Update flight by id

[Try it out!] Hide Response

Curl

```
curl -X PUT --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
   "airlineCode": "EK", \
   "flightNo": "0410", \
   "origin": "DXB", \
   "destination": "SYD", \
   "ticketPrice": 2560, \
   "active": true \
 }' 'http://localhost:8090/flightService/flights/964db7a3-8fde-4944-9374-d83a2b221ab4'
```

Request URL

```
http://localhost:8090/flightService/flights/964db7a3-8fde-4944-9374-d83a2b221ab4
```

Request Headers

```
{
  "Accept": "application/json"
}
```

Response Body

```
{
  "id": "964db7a3-8fde-4944-9374-d83a2b221ab4",
  "airlineCode": "EK",
  "flightNo": "0410",
  "origin": "DXB",
  "destination": "SYD",
  "ticketPrice": 2560,
  "active": true
}
```