

TP2 : REST

The screenshot shows an IDE with the following components:

- Project Explorer:** Shows the project structure with packages `org.sid.bankaccountservice` and `org.sid.bankaccountservice.repository`.
- Code Editor:** Displays the `BankAccountServiceApplication.java` file. The code includes a `@SpringBootApplication` annotation, a `main` method, and a `@Bean` method for `CommandLineRunner` that generates random bank accounts.
- Console:** Shows the application's startup logs, including Hibernate Commons Annotations, JPA EntityManagerFactory initialization, and the application starting on port 8081.

The screenshot shows a web browser with the URL `localhost:8081/h2-console/login.do?jsessionid=eb359ed47eaaee4bfce3d4fa8a22b16b`. The interface includes a sidebar with a database tree, a top bar with controls like "Auto commit" and "Max rows", and a main area for SQL queries and results.

Database Tree:

- jdbc:h2:mem:account-db
 - BANK_ACCOUNT
 - ID
 - BALANCE
 - CREATED_AT
 - CURRENCY
 - TYPE
 - Indexes
 - INFORMATION_SCHEMA
 - Users

SQL Statement:

```
SELECT * FROM BANK_ACCOUNT;
```

Results:

ID	BALANCE	CREATED_AT	CURRENCY	TYPE
63bfc265-7317-429e-ae05-c30648ac735f	34076.605317106194	2022-10-25 17:48:19.38	MAD	1
3e6eec6a-de3c-4823-b9a3-dc1c0fe67c3b	92486.30693653105	2022-10-25 17:48:19.481	MAD	0
4aa05d2f-f31d-4cb2-b30e-ed2876baebd3	63839.7828462939	2022-10-25 17:48:19.482	MAD	1
af4ecc7b-d470-4d1b-b75b-f5edd96d9961	56263.87926880933	2022-10-25 17:48:19.484	MAD	0
18993557-4310-41a5-898d-63bc4c854e4b	90491.84682933553	2022-10-25 17:48:19.485	MAD	0
f1e89787-1dad-4b15-b431-d486d57b0779	12358.08713283139	2022-10-25 17:48:19.488	MAD	1
1317b80e-0bda-452f-88de-e706590cc014	61134.126811803624	2022-10-25 17:48:19.49	MAD	1
cfb82e52-dec1-458c-8ce5-419d2217237d	78162.15437258102	2022-10-25 17:48:19.491	MAD	0
50b776a9-f11f-4291-be0b-5fb7f88a4f5f	36406.428930029775	2022-10-25 17:48:19.493	MAD	1
d1a8b975-5288-4007-83ce-622fa233484e	64289.48727335314	2022-10-25 17:48:19.495	MAD	1

(10 rows, 11 ms)

Edit

localhost:8081/bankAccounts

```
[
  {
    "id": "719c063b-9dfd-400f-9034-a99825a84512",
    "createdAt": "2022-10-25T19:02:07.258+00:00",
    "balance": 18061.372364885858,
    "currency": "MAD",
    "type": "CURRENT_ACCOUNT"
  },
  {
    "id": "2acd2c80-fb10-4770-8a64-b359a0749606",
    "createdAt": "2022-10-25T19:02:07.353+00:00",
    "balance": 69236.39796375722,
    "currency": "MAD",
    "type": "CURRENT_ACCOUNT"
  },
  {
    "id": "40f36e8d-7626-486c-966e-e09ed364c23a",
    "createdAt": "2022-10-25T19:02:07.355+00:00",
    "balance": 61837.31149177757,
    "currency": "MAD",
    "type": "SAVING_ACCOUNT"
  },
  {
    "id": "9c3b5111-2a75-4b10-961c-4ae897775fe7",
    "createdAt": "2022-10-25T19:02:07.356+00:00",
    "balance": 44337.11373877605,
    "currency": "MAD",
    "type": "CURRENT_ACCOUNT"
  },
  {
    "id": "d5e102f8-1320-4690-a68e-de6a3c36bc64",
    "createdAt": "2022-10-25T19:02:07.358+00:00",
    "balance": 54074.03048936369,
    "currency": "MAD",
    "type": "CURRENT_ACCOUNT"
  },
  {
    "id": "b5356e5d-edc8-4aa3-a214-9eff06e6add0",
    "createdAt": "2022-10-25T19:02:07.360+00:00",
    "balance": 11950.771105476128,
    "currency": "MAD",
    "type": "CURRENT_ACCOUNT"
  }
]
```

localhost:8081/swagger-ui/index.html#/account-rest-controller/bankAccount

string (path)

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8081/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512' \
  -H 'accept: */*'
```

Request URL

http://localhost:8081/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512

Server response

Code Details

500

Undocumented Error: response status is 500

Response body

```
{
  "timestamp": "2022-10-25T20:59:34.163+00:00",
  "status": 500,
  "error": "Internal Server Error",
  "path": "/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512"
}
```

Response headers

```
connection: close
content-type: application/json
date: Tue, 25 Oct 2022 20:59:34 GMT
transfer-encoding: chunked
```

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:8081/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": "string",
    "createdAt": "2022-10-25T21:02:31.069Z",
    "balance": 0,
    "currency": "string",
    "type": "CURRENT_ACCOUNT"
  }'
```

Request URL

http://localhost:8081/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512

Server response

Code	Details
500	Error: response status is 500

Response body

```
{
  "timestamp": "2022-10-25T21:02:50.787+00:00",
  "status": 500,
  "error": "Internal Server Error",
  "path": "/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512"
}
```

Response headers

```
connection: close
content-type: application/json
date: Tue, 25 Oct 2022 21:02:50 GMT
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	OK	No links

→ localhost:8081/swagger-ui/index.html#/account-rest-controller/deleteAccount

Responses

Curl

```
curl -X 'DELETE' \
  'http://localhost:8081/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512' \
  -H 'accept: */*'
```

Request URL

http://localhost:8081/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512

Server response

Code	Details
500	Error: response status is 500

Response body

```
{
  "timestamp": "2022-10-25T21:04:10.558+00:00",
  "status": 500,
  "error": "Internal Server Error",
  "path": "/bankAccounts/719c063b-9dfd-400f-9034-a99825a84512"
}
```

Response headers

```
connection: close
content-type: application/json
date: Tue, 25 Oct 2022 21:04:10 GMT
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	OK	No links

→ ↻ ⓘ localhost:8081/swagger-ui/index.html#/account-rest-controller/save 🔍 📄 ☆ 🌐 ⚙️ ☰

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8081/bankAccounts' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "id": "string",
    "createdAt": "2022-10-25T21:05:12.995Z",
    "balance": 0,
    "currency": "string",
    "type": "CURRENT_ACCOUNT"
  }'
```

Request URL

http://localhost:8081/bankAccounts

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "id": "dc1a997-f39f-40b5-a047-4c310648ff01", "createdAt": "2022-10-25T21:05:12.995+00:00", "balance": 0, "currency": "string", "type": "CURRENT_ACCOUNT" }</pre></div><div><div>Download</div></div></div> <div><div>Response headers</div><div><pre>connection: keep-alive content-type: application/json date: Tue, 25 Oct 2022 21:05:19 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre></div></div>

Responses

Curl	Description
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Links

```
localhost:8081/bankAcc...
{
  "_embedded": {
    "bankAccounts": [
      {
        "createdAt": "2022-10-29T11:58:18.093+00:00",
        "balance": 75076.7418881436,
        "currency": "MAD",
        "type": "CURRENT_ACCOUNT",
        "_links": {
          "self": {
            "href": "http://localhost:8081/bankAccounts/ae7e0540-55e5-416b-8042-018b9cb58429"
          },
          "bankAccount": {
            "href": "http://localhost:8081/bankAccounts/ae7e0540-55e5-416b-8042-018b9cb58429"
          }
        }
      }
    ]
  },
  "_links": {
    "first": {
      "href": "http://localhost:8081/bankAccounts?page=0&size=1"
    },
    "self": {
      "href": "http://localhost:8081/bankAccounts?page=0&size=1"
    },
    "next": {
      "href": "http://localhost:8081/bankAccounts?page=1&size=1"
    },
    "last": {
      "href": "http://localhost:8081/bankAccounts?page=9&size=1"
    },
    "profile": {
      "href": "http://localhost:8081/profile/bankAccounts"
    }
  },
  "page": {
    "size": 1,
    "totalElements": 10,
    "totalPages": 10,
    "number": 0
  }
}
```

```
localhost:8081/bankAcc...
{
  "_embedded": {
    "bankAccounts": []
  },
  "_links": {
    "self": {
      "href": "http://localhost:8081/bankAccounts/search/findByType?type=CURRENT_ACCOUNT"
    }
  }
}
```

```
localhost:8081/bankAccounts?projection=1

{
  "_embedded": {
    "bankAccounts": [
      {
        "createdAt": "2022-10-29T12:10:12.874+00:00",
        "balance": 13870.38367766841,
        "currency": "MAD",
        "type": "SAVING_ACCOUNT",
        "_links": {
          "self": {
            "href": "http://localhost:8081/bankAccounts/52ba7b04-5e18-4174-83ae-f2474b13e803"
          },
          "bankAccount": {
            "href": "http://localhost:8081/bankAccounts/52ba7b04-5e18-4174-83ae-f2474b13e803{?projection}",
            "templated": true
          }
        }
      },
      {
        "createdAt": "2022-10-29T12:10:12.995+00:00",
        "balance": 81868.52279945787,
        "currency": "MAD",
        "type": "SAVING_ACCOUNT",
        "_links": {
          "self": {
            "href": "http://localhost:8081/bankAccounts/542f1a77-aedd-4bc6-af62-883874ffe6f6"
          },
          "bankAccount": {
            "href": "http://localhost:8081/bankAccounts/542f1a77-aedd-4bc6-af62-883874ffe6f6{?projection}",
            "templated": true
          }
        }
      },
      {
        "createdAt": "2022-10-29T12:10:12.997+00:00",
        "balance": 23288.927140024338,
        "currency": "MAD",
        "type": "CURRENT_ACCOUNT",
        "_links": {
          "self": {
            "href": "http://localhost:8081/bankAccounts/5a9839ab-4d77-483f-ba07-8df60ef17b1b"
          }
        }
      }
    ]
  }
}
```

localhost:8081/swagger-ui/index.html#/account-rest-controller/save

POST /api/bankAccounts

Parameters Try it out

No parameters

Request body *required* application/json

Example Value Schema

```
{
  "balance": 0,
  "currency": "MAD",
  "type": "CURRENT_ACCOUNT"
}
```

Responses

Code	Description	Links
200	OK	No links

Media type ▼

Content Accept Header

Example Value Schema

```
{
  "id": "string",
  "createdAt": "2022-10-30T11:05:47.047Z",
  "balance": 0,
  "currency": "MAD",
  "type": "CURRENT_ACCOUNT"
}
```

Schemas

- BankAccount >
- BankAccountRequestDTO >
- BankAccountResponseDTO >

