

HeartBank - Private API for Internal Web Application for Banking Operations Management

Document information

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Infrastructure:

- Database: **Oracle 23ai**
- Backend: **Spring Boot & Java 17**
- Container: **Docker** (one image for database, one image for Spring Boot application)

API Reference

I. Audit Module

1. GET /api/v1/audit/logs?page={number}&size={number}&sort=timestampCreated,{asc|desc}

- REQUEST

Attribute	Example	Description	Data type	Required
No body required	-	-	-	=

- QUERY PARAMETERS

Parameter	Example	Description	Required
page	0	The page of audit logs	No (default: 0 - first page)
size	15	The number of items on the page	No (default: 10)
sort	timestampCreated,desc	Specify how rows should be sorted	No (default: timestampCreated,desc)

- RESPONSE

Attribute	Example	Description	Data type
data	[...]	It is always a list containing JSON objects as described below	JSON array of JSON objects
data.id	5	Audit log ID	Number(19)
data.auditType	ACCOUNT	Audit type, values: ACCOUNT	String(30)
data.auditAction	HOME	Audit action, description of the action	String(30)
data.timestampCreated	2025-08-07T16:51:09.307254	Local server timestamp of the audit in YYYY-MM-DDTHH:MM:SS.ssssss (ISO 8601 format)	Local ISO timestamp
data.params	[...]	Extra additional parameters in key value format (if exists, otherwise empty JSON array)	JSON array of JSON objects
data.params.timestampCreated	2025-08-07T16:51:09.307254	Local server timestamp of param created in YYYY-MM-DDTHH:MM:SS.ssssss (ISO 8601 format)	Local ISO timestamp

Attribute	Example	Description	Data type
<code>data.params.key</code>	kycVerifid	Key name	String(100)
<code>data.params.value</code>	true	Key value	String(250)
<code>pagination</code>	{...}	Pagination object	JSON object
<code>pagination.page</code>	0	Current page	Number
<code>pagination.size</code>	10	Current page size	Number
<code>pagination.totalPages</code>	2	Number of total pages	Number
<code>pagination.totalElements</code>	13	Number of total items	Number
<code>pagination.hasNext</code>	true	True if has more pages	Boolean (true / false)
<code>pagination.hasPrevious</code>	false	True if is not first page	Boolean (true / false)

• RESPONSE - EXAMPLE

```
{
  "data": [
    {
      "id": 7,
      "auditType": "ACCOUNT",
      "auditAction": "HOME",
      "timestampCreated": "2025-08-07T16:51:09.801093",
      "params": []
    },
    {
      "id": 6,
      "auditType": "ACCOUNT",
      "auditAction": "HOME",
      "timestampCreated": "2025-08-07T16:51:09.307254",
      "params": []
    },
    {
      "id": 5,
      "auditType": "ACCOUNT",
      "auditAction": "HOME",
      "timestampCreated": "2025-08-07T16:51:08.763348",
      "params": [
        {
          "timestampCreated": "2025-08-07T17:52:00.586244",
          "key": "kycVerified",
          "value": "false"
        },
        {
          "timestampCreated": "2025-08-07T17:52:10.986278",
```

```
        "key": "verified",
        "value": "true"
      }
    ]
  },
  {
    "id": 4,
    "auditType": "ACCOUNT",
    "auditAction": "HOME",
    "timestampCreated": "2025-08-07T16:51:08.190683",
    "params": []
  },
  {
    "id": 3,
    "auditType": "ACCOUNT",
    "auditAction": "HOME",
    "timestampCreated": "2025-08-07T16:51:07.196704",
    "params": []
  },
  {
    "id": 2,
    "auditType": "ACCOUNT",
    "auditAction": "HOME",
    "timestampCreated": "2025-08-07T16:51:03.022953",
    "params": [
      {
        "timestampCreated": "2025-08-07T17:52:17.597008",
        "key": "userAge",
        "value": "35"
      }
    ]
  }
],
"pagination": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 6,
  "hasNext": false,
  "hasPrevious": false
}
}
```

II. Error handling & error codes

- Error codes

Error code	Description	HTTP status code
ERR000	Internal server error	500
ERR001	Resource not found	404
ERR002	Unauthorized access	401
ERR003	Argument validation error	400

- RESPONSE

Attribute	Example	Description	Data type
errorMessage	Resource not found	Error message	String
errorCode	ERR001	Error code described above	String
timestamp	2025-08-07T16:51:09.307254	Local server timestamp in YYYY-MM-DDTHH:MM:SS.ssssss (ISO 8601 format)	Local ISO timestamp
status	404	HTTP status code	Number

- RESPONSE - EXAMPLE

```
{
  "errorMessage": "Resource not found",
  "errorCode": "ERR001",
  "timestamp": "2025-08-07T18:10:32.68212348",
  "status": 404
}
```