

Bank-Web-App

Download Service

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1.INTRODUCTION

This service allows you to securely download your **bank statements** or **emails**.

Simply choose the type of document you need, and the service will generate a downloadable file for you.

Fast, secure, and easy to use — designed to help you access your important information anytime you need it.

Features

1. Download Statement in time range
2. Email Statement in time range

2. TECH STACK

Technology	Version
JDK	17
Maven	3.6.3
Spring Boot	3.5.3
Kafka	7.4.3
Zookeeper	7.4.3
OpenPDF (pdf generation)	2.0.4
Redis	8.0.3
Zipkin	2.23

3.REDIS

Redis Details

Storage Format: <String, Integer>

Key Format: rate_limit:<UID>

- **Example:** rate_limit:aefcfdtrev-rebvsddasdsdf-sdfs
- This key represents the unique identifier (UID) for the user.

Value:

- **Type:** Integer
- **Description:** The number of actions (downloads or sends) the user has performed today.
- **Example:** 3 (User has used 3 out of 4 allowed actions)

Expiration:

- Keys are set to expire at midnight UTC to reset the daily usage automatically.

4.REST API ENDPOINTS

Base URL :- http://127.0.0.1:8222/api/v1/download/

4.1.1/ download-transaction-report

Field Name	Data Type	Description	Sample Value
GET /api/v1/download/download-transaction-report	Endpoint	Download or email bank statement report	/api/v1/download/download-transaction-report
Authorization	Header	Bearer token for user authentication	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6...
account	Query Param	Account number for which the statement is requested	1234567890
startDate	Query Param	Start date of statement (optional, format: YYYY-MM-DD)	2025-01-01
endDate	Query Param	End date of statement (optional, format: YYYY-MM-DD)	2025-01-31
month	Query Param	Specific month for statement (optional, format: YYYY-MM)	2025-01
download	Query Param	yes to download PDF, no to send statement via email	yes or no

1.1 Download Request

Field	Value
download	yes

Request Example

POST loginPOST RegisterGET Verify EnPOST DepositPOST transferPOST 127.0.0.1GET Get RepoGET DownloadGET Download+

Bank Web App(Microservice) / Download / Download and send Email Statement

SaveShare

GEThttp://127.0.0.1:8222/api/v1/download/download-transaction-report?account=469912588965&download=yes&startDate=01-07-2025&endDate=15-07-2025Send

ParamsAuthorizationHeaders (10)BodyScriptsSettingsCookies

Auth Type

Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about [Bearer Token](#)

Token

{{authToken}}

BodyCookiesHeaders (11)Test Results200 OK8.70 s2.45 KBSave Response

HexPreviewVisualize

Bank Statement

Account holder name : Dhruv Patel
Account number : 469912588965
Branch : SOBO
Account type : SAVING
Balance : 1621.9

From : 01-07-2025
To : 15-07-2025

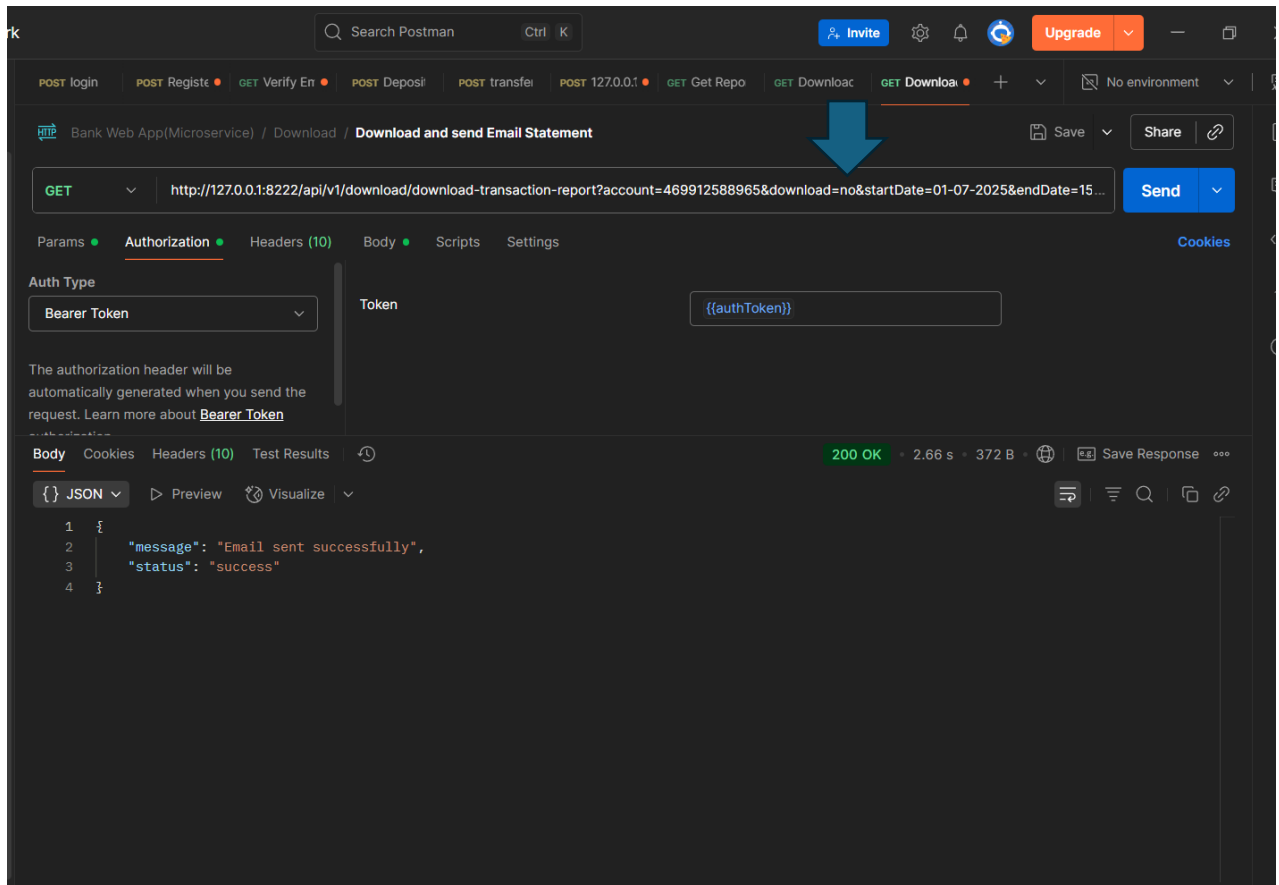
NO	Transaction id	TimeStamp	Type	withdrawal	Deposit	Closing Balance
1	354	2025-07-15T17:00:46.675273	credit		120.5	100000.0
2	253	2025-07-14T16:56:27.604733	credit		1111.0	1200.9

PostbotRunnerStart ProxyCookiesVaultTrash

1.2 Email Request

Field	Value
download	no

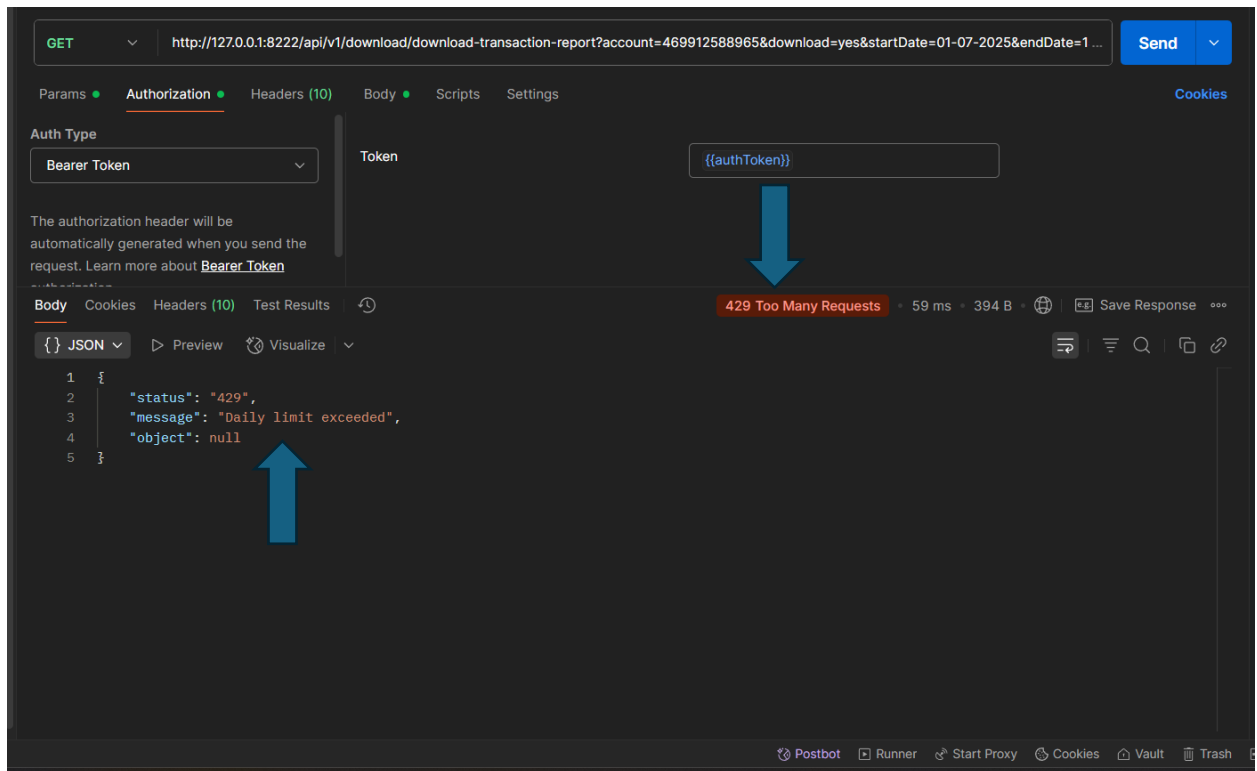
Request Example



4.2.1 Usage Limits

Users can perform a combined total of **4 actions per day** on this endpoint. This includes both:

- **Statement Downloads**
- **Statement Email**



5. PROJECT STRUCTURE

```
Download /
├── src/
│   ├── main/
│   │   ├── java/
│   │   │   └── com/
│   │   │       └── com.bank.web.app.download/
│   │   │           ├── config/
│   │   │           ├── controller/
│   │   │           ├── redis/
│   │   │           ├── service/
│   │   │           ├── dto/
│   │   │           ├── kafka/
│   │   │           ├── exception/
│   │   │           └── DownlaodApplication.java
│   └── resources/
│       ├── application.yml
│       ├── static/
│       └── templates/
├── test/
│   ├── java/
│   │   └── com/
│   │       └── com.bank.web.app.download/
```