

# Brankas Uploader Task

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## APIs

/api/v1/upload	Handle Upload logic
/	Serves the Form
/api/v1/health_check	Health Check API

## Running Project

Navigate inside the project and run.

```
go run main.go
```

- This will run the server on localhost:4000 ( Can be changed in .env file )
- It will connect to a *managed PSQL database in GCP Cloud SQL*.
- Also go get required packages

## Server StartUp

```
BRANKAS
2024/01/15 01:35:46 INFO Starting Brankas Server on port 4000 ....
2024/01/15 01:35:47 INFO Connected to the DB successfully.
█
```

## Form

<http://localhost:4000/>

Choose File


Upload

## Upload File

Choose File

pic.jpeg

Upload



# API Responses

## 200 OK Response

```
{
  "id": 33,
  "filename": "pic.jpeg",
  "file_type": "image/jpeg",
  "size": 409988,
  "uri": "tmp/upload-370870609.png"
}
```

## 403 Response

- Auth Token is wrong / empty

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://localhost:4000/api/v1/upload
- Body:** Form (selected). Fields include:
  - ☒ authtoken: abcd
  - ☐ field name: value
- Files:** None
- Status:** 401 Unauthorized
- Size:** 21 Bytes
- Time:** 8 ms
- Response:** Headers 5, Cookies, Results, Docs. The response body is: 1 unauthorised request

## 400 Response

- File is not of Image Type

POST

http://localhost:4000/api/v1/upload

Send

Query

Headers <sup>2</sup>

Auth

Body <sup>1</sup>

Tests

Pre Run

JSON

XML

Text

Form

Form-encode

GraphQL

Binary

☐

field name

☐

value

Files

☒

data

Choose file

main.go

☐

field name

Choose file

Select file

Status: 400 Bad Request

Size: 34 Bytes

Time: 4 ms

Response

Headers <sup>5</sup>

Cookies

Results

Docs

{}

≡

1

uploaded document is not an image

Copy

# Database

PSQL Database has been used from GCP Cloud SQL.

## Database Schema and Data

```
brankasdb=> select * from documents;
```

id	filename	file_type	size	uri
1	pan.png	image/png	711911	wdhhjwej
2	pan.png	image/png	711911	wdhhjwej
3	pan.png	image/png	711911	wdhhjwej
4	pan.png	image/png	711911	wdhhjwej
5	pan.png	image/png	711911	tmp/upload-2241203622.png
6	pan.png	image/png	711911	tmp/upload-3204450621.png
7	pan.png	image/png	711911	tmp/upload-491757575.png
8	pan.png	image/png	711911	tmp/upload-2128745222.png
9	logo for voice 0.png	image/png	2174481	tmp/upload-2289786223.png
10	pan.png	image/png	711911	tmp/upload-3158484054.png
11	pan.png	image/png	711911	tmp/upload-865270829.png
12	pan.png	image/png	711911	tmp/upload-3833001794.png
13	pan.png	image/png	711911	tmp/upload-2860150187.png
14	05_67101041000575875 (3).jpg	image/jpeg	57795	tmp/upload-641697001.png
15	pan.png	image/png	711911	tmp/upload-1447577509.png
16	pan.png	image/png	711911	tmp/upload-4209445482.png
17	pan.png	image/png	711911	tmp/upload-505821619.png
18	pan.png	image/png	711911	tmp/upload-2568079681.png
19	pan.png	image/png	711911	tmp/upload-1821515288.png
20	IMG_20231126_142728.jpg	image/jpeg	5959254	tmp/upload-1054303442.png
21	IMG_20231126_142728.jpg	image/jpeg	5959254	tmp/upload-4082826606.png
22	IMG_20231126_142728.jpg	image/jpeg	5959254	tmp/upload-2873803444.png
23	pan.png	image/png	711911	tmp/upload-1631235383.png
24	Best Mutual Funds 2024 - Top Multi Cap and Flexi Cap Mutual Funds 9-19 screenshot.png	image/png	1301481	tmp/upload-866093756.png
25	Best Mutual Funds 2024 - Top Multi Cap and Flexi Cap Mutual Funds 9-19 screenshot.png	image/png	1301481	tmp/upload-1954004374.png
26	Best Mutual Funds 2024 - Top Multi Cap and Flexi Cap Mutual Funds 9-19 screenshot.png	image/png	1301481	tmp/upload-584086768.png
27	Best Mutual Funds 2024 - Top Multi Cap and Flexi Cap Mutual Funds 9-19 screenshot.png	image/png	1301481	tmp/upload-3976134709.png
28	Best Mutual Funds 2024 - Top Multi Cap and Flexi Cap Mutual Funds 9-19 screenshot.png	image/png	1301481	tmp/upload-1930846129.png
29	Best Mutual Funds 2024 - Top Multi Cap and Flexi Cap Mutual Funds 9-19 screenshot.png	image/png	1301481	tmp/upload-2850210521.png
30	Best Mutual Funds 2024 - Top Multi Cap and Flexi Cap Mutual Funds 9-19 screenshot.png	image/png	1301481	tmp/upload-3611948451.png
31	pan.png	image/png	711911	tmp/upload-1154563189.png
32	pan.png	image/png	711911	tmp/upload-2412953749.png
33	pic.jpeg	image/jpeg	409988	tmp/upload-370870609.png

(33 rows)

# Project Structure

Project Entrypoint -> main.go

- api
  - v1 -> api version v1
    - handler -> Contains all the handlers for APIs
    - router -> Contains route Configuration for api version v1
  - v2
- models -> Contains all the types
  - model/Document.go
- repository -> Files to handle Database Operations
  - repository/document\_repository.go
- service -> Business Logics
  - service/authentication\_service.go
  - service/document\_service.go
- utils -> Contains the helper files which can be used across the application
  - utils/document\_uploader.go
  - utils/document\_validator.go
- configs -> Contains all the configs
  - db -> Contains DB Configs and connectors
    - config/db/psqldb\_connector.go
- view
  - Contains the html templates
- tmp
  - Stores the temp files
  - Uploaded images are also written in this file.

# Overall Flow of Application

## Document Upload Flow

