INTERFACE DOCUMENT
Image Publishing Service IPS

This API demonstrated an image publishing service that enables registered users to upload pictures with certain constraints to be approved or rejected by an admin.

Designed by: Abdallah Nazmy

Interfaces:

1. AdminController: /admin
    1.1. …………………………………….createAdmin
    1.2. …………………………………….getUnprocessedPictures
    1.3. …………………………………….rejectPicture
    1.4. …………………………………….acceptPicture

2. ClientController: /client
    2.1. …………………………………….getClients
    2.2. …………………………………….signUp

3. PictureController: /picture

    3.1. getAllPictures
    3.2. getAcceptedPictures
    3.3. uploadPicture

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1-AdminController

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This controller is responsible for creating an admin, admin will accept/reject pictures posted by clients. The admin will only be able to view unprocessed Pictures (with status code 0)
An admin will be created only once with credentials username admin and password admin123

1.1 createAdmin (Post method)
url: http://localhost:8080/admin/ca

Notes: this request can only be used once to generate the master admin with the above mentioned credentials.

SampleRequest/SampleResponse/dbCreation:

| POST | ▼ | http://localhost:8080/admin/ca | | Send ▼ | Save ▼ |

Params ▼ ··· | Body ▼ | 200 OK 638 ms 189 B Save Response ▼

Query Params

KEY	VALUE	DESCRIPTION	···	Bulk Edit
Key	Value	Description		

Pretty   Raw   Preview   Visualize   Text ▼

```
1   Sucessfully created admin
```

mypostgres × | client × | picture × | admin ×
Columns Data Model
▼ Actions...

	id	password	username
1	35	admin123	admin

1.2 getUnporcessedPictures (Get method)
url: http://localhost:8080/admin/gup

Notes: This method will only return pictures with a status code of 0 for the admin to accept/reject

| GET | ▼ | http://localhost:8080/admin/gup | | Send ▼ |

Params ▼ ··· | Body ▼ | 200 OK 50 ms 577 B Sav

Query Params

KEY	VALUE	DESCRIPTION	···	Bulk Edit
Key	Value	Description		

Pretty   Raw   Preview   Visualize   JSON ▼

```
 2      {
 3          "pid": 41,
 4          "url": "http://localhost:8080/downloadFile/
                CamScanner%2003-07-2021%2017.14_1.jpg",
 5          "clientId": 38,
 6          "uploadDate": "2021-09-15T16:17:39.430+00:00"
 7          "description": "pic1",
 8          "status": 0,
 9          "category": "nature"
10      },
11      {
12          "pid": 42,
13          "url": "http://localhost:8080/downloadFile/
                CamScanner%2003-07-2021%2017.14_1.jpg",
14          "clientId": 38,
15          "uploadDate": "2021-09-15T16:18:05.670+00:00"
16          "description": "pic1",
17          "status": 0,
18          "category": "living thing"
19      }
```

1.3 rejectPicture (Put method)
url: http://localhost:8080/admin/{adminId}/rp?pid=pid

Path variable: admin session id for authorized access (will always be the same)
Input params: pid (picture Id)

Notes : when picture is rejected, it will have a status code of 2 and it's url will be removed however all remaining data will remain.

PUT   ▼   http://localhost:8080/admin/35/rp?pid=42   **Send** ▼   S

Params ▼   •••   Body ▼   🌐 200 OK 47 ms 213 B Save R

Query Params

	KEY	VALUE	DESCRIPTION	•••	Bulk Edit
☑	pid	42			
	Key	Value	Description		

Pretty   Raw   Preview   Visualize   Text ▼   ⇥

1   Succesfully rejected picture and removed metadata

🗄 mypostgres ×   ▦ client ×   ▦ picture ×   ▦ admin ×

Columns Data Model

📌 🔁 ▼ Actions...

	p_id	category	description	metadata	status	uploade_date	url	
1	41	nature	pic1	{"fileName":"CamScanner 03-07-2021 17.14_1.jpg","fileDownl...	0	2021-09-15 18:17:39.43	http://localhos...	
2	40	machine	this is a...	{"fileName":"CamScanner 03-07-2021 17.14_1.jpg","fileDownl...	1	2021-09-15 17:47:59.98	http://localhos...	
3	42	livi...	pic1	{"fileName":"CamScanner 03-07-2021 17.14_1.jpg","fileDownl...	2	2021-09-15 18:18:05.67	(null)	

1.3 acceptPicture (Put method)

url: http://localhost:8080/admin/{adminId}/ap?pid=pid

Path variable: admin session id for authorized access (will always be the same)
Input params: pid (picture Id)

Notes : when picture is accepted, it will have a status code of 1 and the admin will no longer be able to view the record since it's no long under processing .

PUT   ▼   http://localhost:8080/admin/35/ap?pid=40   **Ser**

Params ▼   •••   Body ▼   🌐 200 OK 153 ms 1

Query Params

	KEY	VALUE	DESCRIPTION	•••	Bulk Edit
☑	pid	40			
	Key	Value	Description		

Pretty   Raw   Preview   Visualize   Text ▼

1   picture status updated Succefully

🗄 mypostgres ×   ▦ client ×   ▦ picture ×   ▦ admin ×

Columns Data Model

📌 🔁 ▼ Actions...

	p_id	category	description	metadata	status	uploade_date	url	client_id
1	41	nature	pic1	{"fileName":"CamScanner 03-07-2021 17.14_1.jpg","fileDownl...	0	2021-09-15 18:17:39.43	http://localhos...	38
2	42	livi...	pic1	{"fileName":"CamScanner 03-07-2021 17.14_1.jpg","fileDownl...	0	2021-09-15 18:18:05.67	http://localhos...	38
3	40	machine	this is a...	{"fileName":"CamScanner 03-07-2021 17.14_1.jpg","fileDownl...	1	2021-09-15 17:47:59.98	http://localhos...	37

ERROR CODES:
ERROR-4 :Picture does not exist

PUT | http://localhost:8080/admin/35/ap?pid=1 | **Send** ▾

Params ▾ | ••• | Body ▾ | ⊕ 500 Internal Server Error 38 ms 299 B | Save F

Query Params

	KEY	VALUE	DESCRIPTION	•••	Bulk Edit
☑	pid	1			
	Key	Value	Description		

Pretty | Raw | Preview | Visualize | JSON ▾

```
1  {
2      "httpStatus": "INTERNAL_SERVER_ERROR",
3      "controllerPath": "picture",
4      "path": "/{adminId}/ap",
5      "message": "Picture does not exist",
6      "errorCode": "ERROR-4"
7  }
```

2-ClientController

This controller is responsible for client signup to enable picture uploads, and view all uploaded pictures.

2.1 getClients (Get method)
url http://localhost:8080/client/gc

Notes : no need to be signed in to be able to view pictures

GET | http://localhost:8080/client/gc | **Send**

Body ▾ | ••• | Body ▾ | ⊕ 200 OK 48 ms 396 B

none ▾

This request does not have a body

Pretty | Raw | Preview | Visualize | JSON ▾

```
1  [
2      {
3          "id": 37,
4          "email": "A@gmail.com",
5          "password": "pass",
6          "registrationDate": "2021-09-15T15:34:40.416+00:0
7          "pictures": []
8      },
9      {
10         "id": 38,
11         "email": "B@gmail.com",
12         "password": "pass2",
13         "registrationDate": "2021-09-15T15:35:30.275+00:0
14         "pictures": []
15     }
16  ]
```

2.1 signUp (Post method)
url http://localhost:8080/client/su

Input: Request body json format

{"email":"email","password:"password"}

Notes: this method validated email uniqueness and format validity(GMAIL/HOTMAIL/LIVE/YAHOO/) before submitting post request
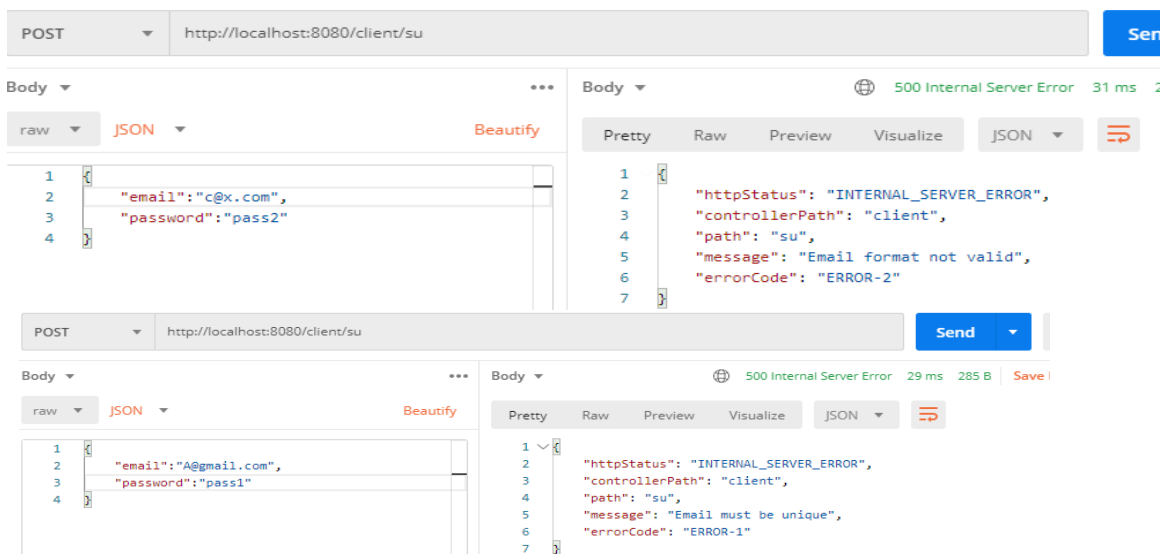
SampleRequest/SampleResponse/DBCreation

POST ▾ http://localhost:8080/client/su   Send ▾

Body ▾   ⋯
raw ▾   JSON ▾   Beautify

1 {
2   "email":"A@gmail.com",
3   "password":"pass"
4 }

Body ▾   ⊕ 201 Created 303 ms 280 B Save R
Pretty Raw Preview Visualize   JSON ▾ ⇥

1 {
2   "object": {
3   "id": 37,
4   "email": "A@gmail.com",
5   "password": "pass",
6   "registrationDate": "2021-09-15T15:34:40.416+00:00"
7   }
8 }
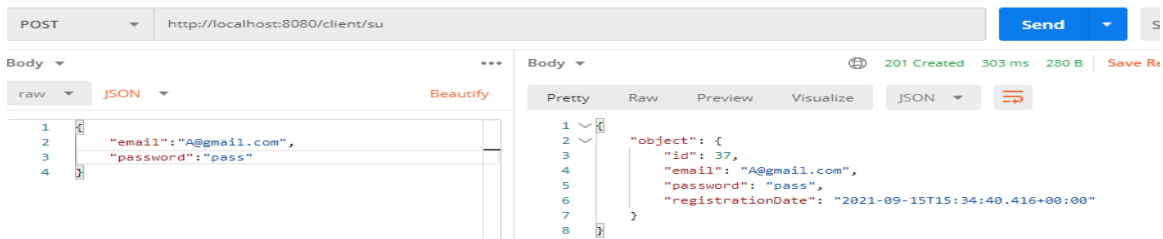
id	email	password	registration_date
1	37	A@gmail.com pass	2021-09-15 17:34:40.416
2	38	B@gmail.com pass2	2021-09-15 17:35:30.275

ERROR CODES:
ERROR-1 : email must be unique
ERROR-2 : invalid email format

POST ▾ http://localhost:8080/client/su   Ser

Body ▾   ⋯
raw ▾   JSON ▾   Beautify

1 {
2   "email":"c@x.com",
3   "password":"pass2"
4 }

Body ▾   ⊕ 500 Internal Server Error 31 ms
Pretty Raw Preview Visualize   JSON ▾ ⇥

1 {
2   "httpStatus": "INTERNAL_SERVER_ERROR",
3   "controllerPath": "client",
4   "path": "su",
5   "message": "Email format not valid",
6   "errorCode": "ERROR-2"
7 }

POST ▾ http://localhost:8080/client/su   Send ▾

Body ▾   ⋯
raw ▾   JSON ▾   Beautify

1 {
2   "email":"A@gmail.com",
3   "password":"pass1"
4 }

Body ▾   ⊕ 500 Internal Server Error 29 ms 285 B Save
Pretty Raw Preview Visualize   JSON ▾ ⇥

1 {
2   "httpStatus": "INTERNAL_SERVER_ERROR",
3   "controllerPath": "client",
4   "path": "su",
5   "message": "Email must be unique",
6   "errorCode": "ERROR-1"
7 }

3-PictureController

This controller is responsible for returning/uploading pictures from/to the database

3.1 getAllPictures (Get method)
url http://localhost:8080/picture/gp

Notes : returns all accounts's pictures with disregard to picture status.

SampleRequest/SampleResponse

3.2 getAcceptedPictures (Get method)
url http://localhost:8080/picture/gap

Notes : returns all accounts's pictures with accepted picture status (status=1)

3.3 uploadPicture (Post method)

url

Path variable: client session id for authorized access (no session id means client is not signed in)

Input params:
@RequestParam String "description" ,
@RequestParam String "category" (Restricted to machine/living thing/nature ,
@RequestParam MultiPartFile "image"

Restrictions:
- Upload size of max 2MB
- Image format must be jpg or png or gif

SampleRequest/SampleResponse/DBCreation

```
POST  ▼   http://localhost:8080/picture/37/u          Send ▼   Save

Body ▼                              ···        Body ▼    ⊕  500 Internal Server Error  798 ms  267 B  Save Respon

form-data ▼                                    Pretty  Raw  Preview  Visualize    JSON ▼

    KEY       VALUE        DESCRIPTION  ··· Bulk Edit    1  {
☑  image     10mbimag... ✕                              2     "timestamp": "2021-09-15T15:51:40.381+00:00",
☑  description this is a descript...                     3     "status": 500,
☑  category   machine                                   4     "error": "Internal Server Error",
                                                         5     "path": "/picture/37/u"
                                                         6  }
```

ERROR CODES:
ERROR-5 : client does not exist or may not be signed up
ERROR-7 : Invalid picture category


```
POST  ▼   http://localhost:8080/picture/40/u          Send ▼

Body ▼                              ···        Body ▼    ⊕  500 Internal Server Error  70 ms  321 B  Save

form-data ▼                                    Pretty  Raw  Preview  Visualize    JSON ▼

    KEY       VALUE        DESCRIPTION  ··· Bulk Edit    1  {
☑  image     CamScann... ✕                              2     "httpStatus": "INTERNAL_SERVER_ERROR",
☑  description pic1                                      3     "controllerPath": "picture",
☑  category   nature                                    4     "path": "/{clientId}/u",
   Key       Value        Description                    5     "message": "Client does not exist or may no be sig
                                                         6     "errorCode": "ERROR-5"
                                                         7  }
```



```
POST  ▼   http://localhost:8080/picture/37/u          Send ▼   Save ▼

Body ▼                              ···        Body ▼    ⊕  500 Internal Server Error  33 ms  301 B  Save Response ▼

form-data ▼                                    Pretty  Raw  Preview  Visualize    JSON ▼

    KEY       VALUE        DESCRIPTION  ··· Bulk Edit    1 ∨ {
☑  image     CamScann... ✕                              2     "httpStatus": "INTERNAL_SERVER_ERROR",
☑  description this is a descript...                     3     "controllerPath": "picture",
☑  category   habal                                     4     "path": "/{clientId}/u",
   Key       Value        Description                    5     "message": "Invalid picture category",
                                                         6     "errorCode": "ERROR-7"
                                                         7  }
```