API DOCUMENTATION FOR REAL ESTATE

Table of contents

USER	2
/api/user/	2
/api/user/login/	7
WITH Username and Password	7
WITH Token	9
/api/user/logout/	11
/api/user/forgot/	12
/api/user/reset/	14
/api/user/password/	15
/api/user/checkingaccount/	16
/api/user/agency/	18
PROJECT	21
/api/location/	21
/api/province/ <int:id></int:id>	24
/api/province/ <int:province_id>/district/<int:district_id></int:district_id></int:province_id>	26
/api/s/province/	28
/api/s/district/ <int:province_id></int:province_id>	29
/api/s/ward/ <int:district_id></int:district_id>	30
/api/s/street/ <int:district_id></int:district_id>	32
/api/s/project/ <int:district_id></int:district_id>	33
/api/cityinfo/	35
/api/estatetype/	36
/api/estatestatus/	38
/api/transaction/	39
/api/project/	40
/api/estate/?page= <int></int>	41
/api/estate/ <int:id>/?device_id=<string></string></int:id>	44
/api/post/?page= <int></int>	47
/api/mypost/ <int:id></int:id>	58
/api/sorttype/	61
/api/filtermaxprice/	63
/api/filterminprice/	65
/api/filterarea/	67
/api/filternumberofroom/	69

/api/filterposttime/	70
/api/search/?page= <int></int>	72
/api/searchonmap/	76
/api/postforyou/	78
/api/favorite/?page= <int></int>	81
/api/favoriteid/	86
/api/news/?page= <int></int>	88
/api/rating/	90
/api/relatedestate/ <int:id>/<int:k>/</int:k></int:id>	91
/api/notification/registertoken/	93
/api/notification/markasread/ <int:notification_id></int:notification_id>	95
/api/notification/all/?page= <int:page_number></int:page_number>	96

1. USER

a. /api/user/

GET

Description: Return all users

Permission: Admin

Parameter

Field	Туре	Description

Field	Туре	Description
id	int	The user ID
name	string	Real name
username	string	The username
email	string	Email address
gender	string	Gender

birthday	string	Birthday
address	string	Address
avatar	string	Avatar url
phoneNumber	string	Phone number
identifyNumber	string	Identify number
isAgency	boolean	

Field	Туре	Description

```
// 20200329193132
// http://127.0.0.1:8000/api/user/
  "id": 11,
  "name": "ADMIN",
  "username": "admin",
  "email": "admin@gmail.com",
  "gender": "Nam",
  "birthday": "1998-05-16",
  "address": "Quận 7, Tp.HCM",
  "avatar": "http://127.0.0.1:8000/media/user/admin/2DI27B4_oBp0J7S.jpg",
  "phoneNumber": "0123456789",
  "identifyNumber": "123456789",
  "isAgency": False,
  "id": 12,
  "name": "ADMIN",
  "username": "asdfsdf",
  "email": "anhvanbt7@gmail.com",
  "gender": "Nam",
```

```
"birthday": "1998-05-16",
    "address": "Quận 7, Tp.HCM",
    "avatar": "http://127.0.0.1:8000/media/user/asdfsdf/2DI27B4.jpg",
    "phoneNumber": "0123456789",
    "identifyNumber": "123456789",
    "isAgency": False,
    },
]
```

POST

Description: Create a new user

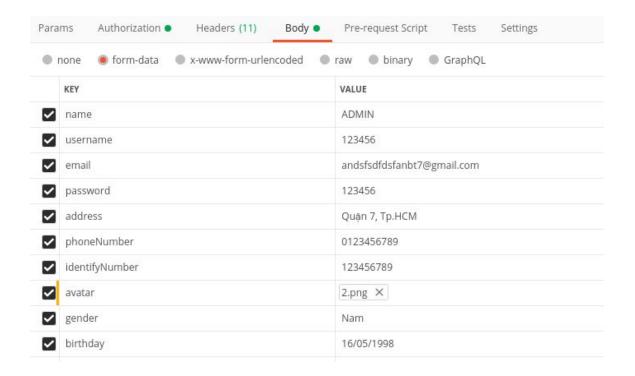
Permission: Anyone

Parameter

(*) required

Field	Туре	Description
name (*)	string	Real name
username (*)	string	User name
password (*)	string	password
gender (*)	string	Gender
email (*)	string	Email address
address	string	Address
phoneNumber	string	Phone number
identifyNumber	string	Identify number
birthday	date	Birthday
avatar	file	Upload file

Postman request example:



Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0 If existed, return 2 If something fail, return 3
error_message	string	Something

```
{
    "error_code": "1",
```

```
"error_message": "Success."
}
```

```
{
    "error_code": "2",
    "error_message": "Username existed",
}
```

PUT

Description: Motify a exist user

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description
email	string	Email
address	string	Address
phoneNumber	string	Phone number
identifyNumber	string	Identify number
birthday	date	Birthday
avatar	file	Upload file

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0 If existed, return 2 If something fail, return 3
error_message	string	Something

Response (example): Success

```
{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

b. /api/user/login/

WITH Username and Password

POST

Description: Login **Permission: Anyone**

Parameter (*) required

Field	Туре	Description
username (*)	string	User name
password (*)	string	password

Postman request example:



Success 200

Field	Туре	Description
name	string	Real name
username	string	Username
gender	string	Gender
birthday	string	Birthday
address	string	Address
avatar	string	Avatar url
phoneNumber	string	Phone Number
email	string	Email Address
identifyNumber	string	Identify number
isAgency	boolean	
token	string	Token

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

```
{
    "name": "ADMIN",
    "username": "admin",
    "gender": "Nam",
    "birthday": "1998-05-16",
    "address": "Quận 7, Tp.HCM",
    "avatar": "http://127.0.0.1:8000/media/user/admin/2DI27B4_oBp0J7S.jpg",
    "phoneNumber": "0123456789",
    "email": "admin@gmail.com",
    "isAgency": True,
    "identifyNumber": "123456789",
    "token":
    "eyJ0eXAiOZV90aW1IIjoiMjAyMC0wMy0zMFQwNDowOTofRd_Esxic4t25KLGaRM UE"
}
```

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

WITH Token

POST

Description: Login **Permission: Anyone**

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description

Field	Туре	Description
name	string	Real name
username	string	Username
gender	string	Gender
birthday	string	Birthday
address	string	Address
avatar	string	Avatar url
phoneNumber	string	Phone Number
email	string	Email Address
isAgency	boolean	
identifyNumber	string	Identify number

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

```
{
    "name": "ADMIN",
    "username": "admin",
    "gender": "Nam",
    "birthday": "1998-05-16",
    "address": "Quận 7, Tp.HCM",
    "avatar": "http://127.0.0.1:8000/media/user/admin/2DI27B4_oBp0J7S.jpg",
    "phoneNumber": "0123456789",
    "email": "admin@gmail.com",
    "isAgency": True,
    "identifyNumber": "123456789"
}
```

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

c. /api/user/logout/

POST

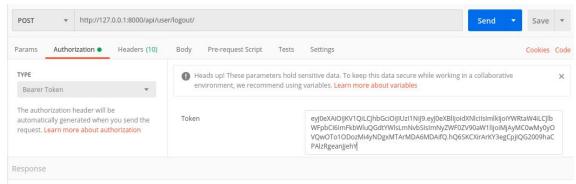
Description: Logout **Permission: Anyone**

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description

Postman request example:



error_code	string	If success, return 1
error_message	string	Something

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

d. /api/user/forgot/

POST

Description: Call this api when forgot your password, we will send an email which contained a PIN to your email address

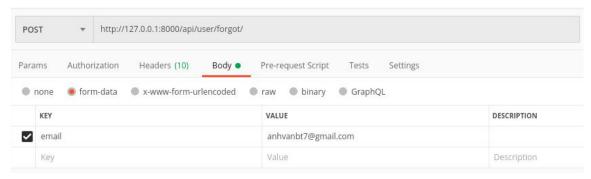
Permission: Anyone

Parameter

(*) required

Field	Туре	Description
email (*)	string	The email which registered

Postman request example:



Success 200

Check your mail, the email will be sent

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

```
{
    "error_code": "1",
    "error_message": "Success."
}
```

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

e. /api/user/reset/

POST

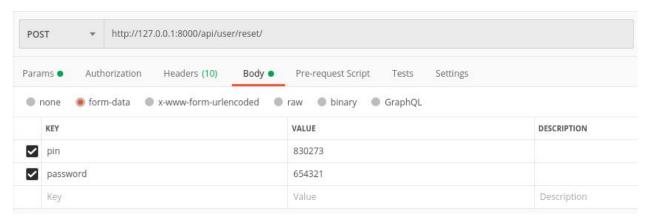
Description: Call this api in order to reset your password

Permission: Anyone

Parameter (*) required

Field	Туре	Description
pin (*)	string	Take this pin code in your email
Password (*)	string	The new password

Postman request example:



Success 200

Check your mail, the email will be sent

Field	Туре	Description
error_code	string	If success, return 1

error_message	string	Something
	333338	

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

f. /api/user/password/

PUT

Description: Change password

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description
oldPassword (*)	string	Old password
newPassword (*)	string	New password

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Success

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
{
    "error_code": "1",
    "error_message": "Success.",
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something went wrong - Old password is not matched",
}
```

g. /api/user/checkingaccount/

POST

Description: Check account before upgrade to agency account.

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Ready to upgrade to agency account

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 33
error_message	string	The number of posts must be greater than or equal to 20

Field	Туре	Description
error_code	string	If fail, return 34
error_message	string	Fail - Miss field: *** (Call /api/user with PUT method to update user info)

Field	Туре	Description
error_code	string	If fail, return 35
error_message	string	Fail - Both conditions are missing

```
{
    "error_code": "1",
    "error_message": "Ready to upgrade to agency account ",
}
```

```
{
   "error_code": "33",
   "error_message": "The number of posts must be greater than or equal to 20",
}
```

```
{
    "error_code": "34",
    "error_message": "Fail - Miss field: ***",
}
```

h. /api/user/agency/

GET

Description: Return all agency users

Permission: Admin

Parameter

Field	Туре	Description

Field	Туре	Description
	object[]	
id	int	The user ID
name	string	Real name
username	string	The username

email	string	Email address
gender	string	Gender
birthday	string	Birthday
address	string	Address
avatar	string	Avatar url
phoneNumber	string	Phone number
identifyNumber	string	Identify number
isAgency	boolean	

Field	Туре	Description

]				

POST

Description: Upgrade to agency account.

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

```
{
    "error_code": "1",
    "error_message": "Success."
}
```

```
{
   "error_code": "100",
   "error_message": "The number of posts must be greater than or equal to 20",
}
```

```
{
    "error_code": "101",
    "error_message": "Fail - Miss field: ***",
}
```

2. PROJECT

a. /api/location/

GET

Description: Return all location, include: province, district, ward, street

Permission: Anyone

Parameter

Field	Туре	Description

Field	Туре	Description
	object[]	
id	int	The province ID

name	string	The province name
code	string	The province code
districts	object[]	All districts
id	int	The district ID
name	string	The district name
wards	object[]	All wards
id	int	The ward ID
name	string	The ward name
prefix	string	The ward prefix
streets	object[]	All street
id	int	The street ID
name	string	The street name
prefix	string	The street prefix

Field	Туре	Description

```
"id": 1,
 "name": "Bình Chánh",
 "wards": [
   "id": 1,
   "name": "An Phú Tây",
   "prefix": "Xã"
   "id": 2,
   "name": "Bình Chánh",
   "prefix": "Xã"
  ...],
"streets": [
 {
"id": 1,
me
   "name": "1",
   "prefix": "Đường"
   "id": 2,
   "name": "10",
   "prefix": "Đường"
 },
 ...],
"id": 2,
"name": "Bình Tân",
"wards": [
 \{\}, \{\}, ..., ],
 "streets": [
 \{\}, \{\}, ..., ],
},
{},
\{\},
....]
```

b. /api/province/<int:id>

GET

Description: Return a special province **Permission: Anyone**

Parameter

Field	Туре	Description

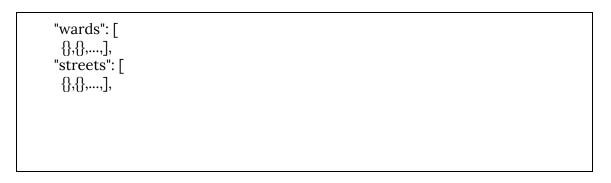
Success 200

Field	Туре	Description
id	int	The province ID
name	string	The province name
code	string	The province code
districts	object[]	All districts
id	int	The district ID
name	string	The district name
wards	object[]	All wards
id	int	The ward ID
name	string	The ward name
prefix	string	The ward prefix
streets	object[]	All street
id	int	The street ID
name	string	The street name
prefix	string	The street prefix

Error 4xx

Field	Туре	Description

```
// 20200329204555
// http://127.0.0.1:8000/api/province/1
  "id": 1,
  "name": "Hồ Chí Minh",
  "code": "SG",
  "districts": [
     "id": 1,
    "name": "Bình Chánh",
     "wards": [
       "id": 1,
       "name": "An Phú Tây",
       "prefix": "Xã"
       "id": 2,
       "name": "Bình Chánh",
       "prefix": "Xã"
     },
      ...],
    "streets": [
       "id": 1,
       "name": "1",
       "prefix": "Đường"
       "id": 2,
       "name": "10",
       "prefix": "Đường"
     },
     ...],
    "id": 2,
     "name": "Bình Tân",
```



c. /api/province/<int:province_id>/district/<int:district_id>

GET

Description: Return a special district of a province

Permission: Anyone

Parameter

Field	Туре	Description

Field	Туре	Description
id	int	The district ID
name	string	The district name
wards	object[]	All wards
id	int	The ward ID
name	string	The ward name
prefix	string	The ward prefix
streets	object[]	All street
id	int	The street ID

name	string	The street name
prefix	string	The street prefix

Field	Туре	Description

```
// 20200329210653
// http://127.0.0.1:8000/api/province/2/district/25
 "id": 25,
 "name": "Ba Đình",
 "wards": [
   "id": 327,
   "name": "Cống Vị",
   "prefix": "Phường"
  },
   "id": 328,
   "name": "Điện Biên",
   "prefix": "Phường"
  },
  {},...],
 "streets": [
   "id": 7219,
   "name": "10",
   "prefix": "Đường"
   "id": 7220,
   "name": "An Xá",
   "prefix": "Phố"
  {},...],
```

d. /api/s/province/

GET

Description: Return all provinces (it only contains: id, name, code)

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
id	int	The province ID
name	string	The province name
code	string	The province code

Error 4xx

Field	Туре	Description

```
// 20200414120622
// https://127.0.0.1:8000/api/s/province/
```

```
"id": 1,
    "name": "Hồ Chí Minh",
    "code": "SG"
},
{
    "id": 2,
    "name": "Hà Nội",
    "code": "HN"
},
{
    "id": 3,
    "name": "Đà Nẵng",
    "code": "DDN"
}
```

e. /api/s/district/<int:province_id>

GET

Description: Return all district (it only contains: id, name, prefix)

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
id	int	The district ID
name	string	The district name
prefix	string	The district prefix

Error 4xx

Field	Туре	Description

Response (example): Success

```
/ 20200414120837
// https://127.0.0.1:8000/api/s/district/1
  "id": 1,
  "name": "Bình Chánh",
  "prefix": "Huyện"
},
  "id": 2,
  "name": "Bình Tân",
  "prefix": "Quận"
 },
  "id": 3,
  "name": "Bình Thạnh",
  "prefix": "Quận"
  "id": 4,
  "name": "Cần Giờ",
  "prefix": "Huyện"
```

Response (example): Failed

f. /api/s/ward/<int:district_id>

GET

Description: Return all ward (it only contains: id, name, prefix)

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
id	int	The ward ID
name	string	The ward name
prefix	string	The ward prefix

Error 4xx

Field	Туре	Description

```
"id": 3,
    "name": "Bình Hưng",
    "prefix": "Xã"
    }
]
```

g. /api/s/street/<int:district_id>

GET

Description: Return all street (it only contains: id, name, prefix)

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
id	int	The street ID
name	string	The street name
prefix	string	The street prefix

Error 4xx

Field	Туре	Description

```
// 20200414121009
// https://127.0.0.1:8000/api/s/street/1

[
{
    "id": 1,
    "name": "1",
    "prefix": "Đường"
},
{
    "id": 2,
    "name": "10",
    "prefix": "Đường"
},
{
    "id": 3,
    "name": "10A",
    "prefix": "Đường"
}
}
```

h. /api/s/project/<int:district_id>

GET

Description: Return all project (it only contains: id, name, lat, ng)

Permission: Anyone

Parameter

Field	Туре	Description

Field	Туре	Description
id	int	The project ID

name	string	The project name
lat	float	The project lat
lng	float	The project lng

Field	Туре	Description

Response (example): Success

Response (example): Failed

i. /api/cityinfo/

GET

Description: Return some famous city information

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
	object[]	
id	int	The province ID
name	string	The province name
total_estate	int	Total estate of the province
images	string[]	List image of the province

Error 4xx

Field	Туре	Description

```
// 20200510114407
// https://danganhhaotest.pythonanywhere.com/api/cityinfo/
[
{
"id": 1,
```

```
"name": "Hồ Chí Minh",
  "total_estate": 1500,
  "images": [
"https://res.cloudinary.com/myrealestate/image/upload/v1589085310/static/
HCM/HCM1_jwfmpz.jpg",
"https://res.cloudinary.com/myrealestate/image/upload/v1589085309/static/
HCM/HCM2_g5oplx.jpg"
 },
  "id": 2,
  "name": "Hà Nôi",
  "total_estate": 1184,
  "images": [
"https://res.cloudinary.com/myrealestate/image/upload/v1589085356/static/
HN/HN_gehggq.jpg",
"https://res.cloudinary.com/myrealestate/image/upload/v1589085356/static/
HN/HN1_zfajn5.jpg"
 ]
},
```

j. /api/estatetype/

GET

Description: Return all estate type

Permission: Anyone

Parameter

Field	Туре	Description

Field	Туре	Description
	object[]	List estate type
id	int	Estate type ID
name	string	Estate type name

Error 4xx

Field	Туре	Description

Response (example): Success

Response (example): Failed

k. /api/estatestatus/

GET

Description: Return all estate status

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
	object[]	List estate status
id	int	Estate status ID
status	string	Estate status name

Error 4xx

Field	Туре	Description

Response (example): Faile	ed		
l. /api/transaction,	/		
GET Description: Return all tra Permission: Anyone	ansaction		
Parameter			
Field	Туре	Description	
Success 200 Field	Туре	Description	
	object[]	List transaction	
id	int	Transaction ID	
name	string	Transaction name	
Error 4xx			
Field	Туре	Description	
Response (example): Succ	cess		
// 20200329212046 // http://127.0.0.1:8000	0/api/transactio	n/	

```
{
    "id": 5,
    "name": "Mua"
    },
    {
    "id": 6,
    "name": "Bán"
    }
}
```

m. /api/project/

GET

Description: Return all project

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
	object[]	List project
id	int	Project ID
name	string	Project name
lat	float	lat address
lng	float	lng address

Error 4xx

Field	Туре	Description

Response (example): Success

```
// 20200329212141
// http://127.0.0.1:8000/api/project/

{
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
    },
    {
        "id": 2,
        "name": "13D Asia Phú Mỹ",
        "lat": 10.705533027649,
        "lng": 106.64806365967
    },
    ]
}
```

Response (example): Failed

n. /api/estate/?page=<int>

GET

Description: Return all estate. User can call this api without *page* param, default return page 1. Default: Items per page = 25

Permission: Anyone

Field	Туре	Description

Success 200

Field	Туре	Description
current_page	string	Current page
total_page	string	Total page
result	object[]	
id	int	Estate ID
title	string	Estate title
province	string	Estate Province
district	string	Estate District
contact	string	Contact
area	string	Area estate
price	string	Price estate
lat	string	Estate lat
lng	string	Estate lng
created_day	string	Create day
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project lng
images	object[]	
id	string	Image ID
image	string	Image URL

Error 4xx

Field	Туре	Description

```
// 20200402175712
// http://127.0.0.1:8000/api/estate/?page=1
 "current_page": 1,
 "total_page": "1",
 "result": [
   "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
   "province": "Hồ Chí Minh",
   "district": "Quận 1",
   "contact": "0903 732 682",
   "area": 56.0,
   "price": 2100,
   "created_day": "2020-04-15T06:07:56.515816Z",
   "project": {
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
  },
   "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
   "province": "Hồ Chí Minh",
   "district": "Quận 1",
   "contact": "0903 732 682",
```

```
"area": 56.0,
    "price": 2100,
    "created_day": "2020-04-15T06:07:56.515816Z",
    "project": {
        "id": 1,
        "name": "13B Conic Phong Phú",
        "lat": 10.71240234375,
        "lng": 106.64177703857
        }
    },
    ]
}
```

```
// 20200402180325

// http://127.0.0.1:8000/api/estate/?page=10

{

  "error_code": "0",

  "error_message": "fail - index out of range"

}
```

o. /api/estate/<int:id>/?device_id=<string>

GET

Description: Return a special estate

Permission: Anyone

Required: Add token to Authorization

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
user	object	

name	string	Username
email	string	Email
phoneNumber	string	Phone Number
estate	object	
id	int	Estate ID
estateType	string	Estate Type
images	object[]	
id	string	Image ID
image	string	Image URL
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project lng
province	string	Estate Province
district	string	Estate district
ward	string	Estate ward
street	string	Estate street
addressDetail	string	Estate address detail
title	string	Estate title
numberOfRoom	string	Number of room
description	string	Description
detail	string	Detail
price	int	Price
area	float	Area
contact	string	Contract

lat	string	Estate lat
lng	string	Estate lng
dateFrom	string	Date post
dateTo	string	Date expire

Error 4xx

Field	Туре	Description

```
// 20200330002452
// http://192.168.0.103:5000/api/estate/1
 "user": {
  "name": "Admin - Đặng Anh Hào",
  "email": "anhvanbt7@gmail.com",
  "phoneNumber": "090123456"
 "estate": {
  "id": 143,
  "images": [
  ],
"estateType": "Nhà riêng",
  "project": "",
  "province": "Hồ Chí Minh",
  "district": "Bình Chánh",
  "ward": "",
  "street": "",
  "title": "test expire day = 10",
  "numberOfRoom": 0,
  "description": null,
  "detail": null,
  "price": 0,
  "area": 0.0,
  "contact": "1234"
```

```
},
    "dateFrom": "2020-04-17T07:46:09.387137Z",
    "dateTo": "2020-04-27T07:46:09.387145Z"
}
```

p. /api/post/?page=<int>

GET

Description: Return all posts of special user. User can call this api without *page* param, default return page 1. Default: Items per page = 25

Permission: Anyone

Parameter: Get posts of current user

(*) required

Required: Add token to Authorization

Field	Туре	Description

Parameter: Get posts of a any user

(*) required

Field	Туре	Description
id (*)	string	Author ID

Success 200: For special user

Field	Туре	Description
current_page	string	Current page
total_page	string	Total page

result	object[]	
estate	object	
id	int	Estate ID
estateType	string	Estate Type
images	object[]	
id	string	Image ID
image	string	Image URL
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project Ing
province	string	Estate Province
district	string	Estate district
ward	string	Estate ward
street	string	Estate street
addressDetail	string	Estate address detail
title	string	Estate title
numberOfRoom	string	Number of room
description	string	Description
detail	string	Detail
price	int	Price
area	float	Area
contact	string	Contract
lat	string	Estate lat
lng	string	Estate lng

isApproved	int	1: approved - alway return 1
dateFrom	string	Date post
dateTo	string	Date expire

Success 200: For current user (to modify post later)

Field	Туре	Description
current_page	string	Current page
total_page	string	Total page
result	object[]	
estate	object	
id	int	Estate ID
estateType	object	Estate Type
id	string	Estate type ID
name	string	Estate type name
images	object[]	
id	string	Image ID
image	string	Image URL
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project lng
province	string	Estate Province
id	string	Estate province ID
name	string	Estate province name

district	string	Estate district
id	string	Estate district ID
name	string	Estate district name
ward	string	Estate ward
id	string	Estate ward ID
name	string	Estate ward name
street	string	Estate street
id	string	Estate street ID
name	string	Estate street name
addressDetail	string	Estate address detail
title	string	Estate title
numberOfRoom	string	Number of room
description	string	Description
detail	string	Detail
price	int	Price
area	float	Area
contact	string	Contract
lat	string	Estate lat
lng	string	Estate lng
isApproved	int	(1: approved, 0: rejected, 2: processing)
dateFrom	string	Date post
dateTo	string	Date expire

Error 4xx

Field	Туре	Description
-------	------	-------------

Response (example): Success

```
"current_page": "1",
"total_page": "3",
"result": [
    "estate": {
       "id": 24,
       "images": ∏,
       "estateType": "Đất nền",
       "project": {
         "id": 1,
         "name": "13B Conic Phong Phú",
         "lat": 10.71240234375,
         "lng": 106.64177703857
       "province": "Hồ Chí Minh",
       "district": "Quận 1",
       "ward": "",
       "street": "Nguyễn Huy Tự",
       "addressDetail": null,
       "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa K",
       "numberOfRoom": 0,
       "description": "Tôi chính chủ ",
       "detail": "Tôi chính chủ ",
       "price": 28000000000,
       "area": 91.0,
       "contact": "0903 732 682",
       "lat": null,
       "lng": null
    "dateFrom": "2020-03-30T00:00:00Z",
    "dateTo": "2020-04-29T00:00:00Z"
  },
```

Response (example): Failed

```
// 20200402180325
// http://127.0.0.1:8000/api/estate/?page=10
```

```
{
    "error_code": "0",
    "error_message": "fail - index out of range"
}
```

POST

Description: Call when user want to create a new post

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description
title (*)	string	The post title
estateType (*)	string	The estate type ID. (Get ID from /api/estatetype)
expireAfter (*)	int	The post will expire after <int> day</int>
project	string	The project ID of estate (Get ID from /api/project)
province (*)	string	The province ID of the estate
district (*)	string	The district ID of the estate
ward	string	The ward ID of the estate
street	string	The street ID of the estate
numberOfRoom	string	The number of room
description (*)	string	The post description
image	file	The image list of the post
detail	string	The post detail
price	string	The price of the estate
area	string	The estate area

contact	string	The user contact
transaction (*)	string	The transaction ID (Get ID from /api/transaction)
addressDetail	string	The estate address detail
lat	string	The estate lat
lng	string	The estate lng

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
// 20200330002452

// http://192.168.0.103:5000/api/post/

{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

PUT

Description: Modify a exist post

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description
id (*)	string	The estate id
title	string	The post title
estateType	string	The estate type ID. (Get ID from /api/estatetype)
expireAfter	int	The post will expire after <int> day</int>
project	string	The project ID of estate (Get ID from /api/project)
province	string	The province ID of the estate
district	string	The district ID of the estate
ward	string	The ward ID of the estate
street	string	The street ID of the estate
numberOfRoom	string	The number of room
description	string	The post description
oldImage	string[]	The image id list
newImage	file[]	The image list of the post
detail	string	The post detail
price	string	The price of the estate

area	string	The estate area
contact	string	The user contact
transaction	string	The transaction ID (Get ID from /api/transaction)
addressDetail	string	The estate address detail
lat	string	The estate lat
lng	string	The estate lng

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
// 20200330002452

// http://192.168.0.103:5000/api/post/

{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

DELETE

Description: Delete a exist post

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description
id (*)	string	The estate id
title	string	The post title
estateType	string	The estate type ID. (Get ID from /api/estatetype)
expireAfter	int	The post will expire after <int> day</int>
project	string	The project ID of estate (Get ID from /api/project)
province	string	The province ID of the estate
district	string	The district ID of the estate
ward	string	The ward ID of the estate
street	string	The street ID of the estate
numberOfRoom	string	The number of room
description	string	The post description
oldImage	string[]	The image id list
newImage	file[]	The image list of the post
detail	string	The post detail

price	string	The price of the estate
area	string	The estate area
contact	string	The user contact
transaction	string	The transaction ID (Get ID from /api/transaction)
addressDetail	string	The estate address detail
lat	string	The estate lat
lng	string	The estate lng

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

```
// 20200330002452

// http://192.168.0.103:5000/api/post/

{
    "error_code": "1",
    "error_message": "Success."
}
```

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

q. /api/mypost/<int:id>

GET

Description: Return a special post of current user

Permission: Anyone

Parameter: Get posts of current user

(*) required

Required: Add token to Authorization

Field	Туре	Description
id (*)	string	Estate ID

Success 200:

Field	Туре	Description
current_page	string	Current page
total_page	string	Total page
result	object[]	
estate	object	
id	int	Estate ID
estateType	object	Estate Type
id	string	Estate type ID
name	string	Estate type name

images	object[]	
id	string	Image ID
image	string	Image URL
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project lng
province	string	Estate Province
id	string	Estate province ID
name	string	Estate province name
district	string	Estate district
id	string	Estate district ID
name	string	Estate district name
ward	string	Estate ward
id	string	Estate ward ID
name	string	Estate ward name
street	string	Estate street
id	string	Estate street ID
name	string	Estate street name
addressDetail	string	Estate address detail
title	string	Estate title
numberOfRoom	string	Number of room
description	string	Description
detail	string	Detail
price	int	Price

area	float	Area	
contact	string	Contract	
lat	string	Estate lat	
lng	string	Estate lng	
isApproved	int	(1: approved, 0: rejected, 2: processing)	
dateFrom	string	Date post	
dateTo	string	Date expire	

Error 4xx

Field	Туре	Description

```
// 20200402180325

// http://127.0.0.1:8000/api/estate/?page=10

{

"error_code": "0",

"error_message": "fail - index out of range"

}
```

r. /api/sorttype/

GET

Description: Return all sort type

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
	object[]	List sort type

id	int	Sort type ID
name	string	Sort type name

Error 4xx

Field	Туре	Description

```
// 20200402185224
// http://127.0.0.1:8000/api/sorttype/
  "id": 1,
  "name": "Thông thường"
 },
  "id": 2,
  "name": "Tin mới nhất"
  "id": 3,
  "name": "Giá thấp nhất"
  "id": 4,
  "name": "Giá cao nhất"
  "name": "Diện tích nhỏ nhất"
  "id": 6,
  "name": "Diện tích lớn nhất"
```

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Response (CAamp	IC,	,.	rancu	

s. /api/filtermaxprice/

GET

Description: Return all filter max price type

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description	
	object[]	List filter max price type	
id	int	Filter max price type ID	
name	string	Filter max price type name	

Error 4xx

Field	Туре	Description

```
// 20200411130417
// http://127.0.0.1:8000/api/filtermaxprice/
[
{
```

```
"id": 1,
 "name": "Tất cả"
 "id": 2,
 "name": "500 triệu"
},
 "id": 3,
 "name": "800 triệu"
},
 "id": 4,
 "name": "1 tỷ"
},
 "id": 5,
 "name": "2 tỷ"
 "id": 6,
 "name": "3 tỷ"
},
 "id": 7,
 "name": "5 tỷ"
 "id": 8,
 "name": "7 tỷ"
 "id": 9,
 "name": "10 tỷ"
 "id": 10,
 "name": "15 tỷ"
 "id": 11,
 "name": "30 tỷ"
```

Response (example): Failed		

t. /api/filterminprice/

GET

Description: Return all filter min price type

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description	
	object[]	List filter min price type	
id	int	Filter min price type ID	
name	string	Filter min price type name	

Error 4xx

Field	Туре	Description

```
// 20200411130417
// http://127.0.0.1:8000/api/filterminprice/
[
{
```

```
"id": 1,
 "name": "Tất cả"
 "id": 2,
 "name": "500 triệu"
},
 "id": 3,
 "name": "800 triệu"
},
 "id": 4,
 "name": "1 tỷ"
},
 "id": 5,
 "name": "2 tỷ"
 "id": 6,
 "name": "3 tỷ"
},
 "id": 7,
 "name": "5 tỷ"
 "id": 8,
 "name": "7 tỷ"
 "id": 9,
 "name": "10 tỷ"
 "id": 10,
 "name": "15 tỷ"
 "id": 11,
 "name": "30 tỷ"
```

Response (example): Falled		

u. /api/filterarea/

GET

Description: Return all filter area type

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description	
	object[]	List filter area type	
id	int	Filter area type ID	
name	string	Filter area type name	

Error 4xx

Field	Туре	Description

```
// 20200411130631
// http://127.0.0.1:8000/api/filterarea/
```

```
"id": 3,
 "name": "Tất cả"
},
 "id": 4,
 "name": "< 30 m2"
},
 "id": 5,
 "name": "30 - 50 m2"
},
 "id": 6,
 "name": "50 - 70 m2"
},
 "id": 7,
 "name": "70 - 100 m2"
 "id": 8,
 "name": "100 - 150 m2"
},
 "id": 9,
 "name": "150 - 250 m2"
 "id": 10,
 "name": "250 - 500 m2"
 "id": 11,
 "name": "500 - 1000 m2"
 "id": 12,
 "name": "1000 - 2000 m2"
 "id": 13,
 "name": "> 2000 m2"
}
```

Response (example): Failed		

v. /api/filternumberofroom/

GET

Description: Return all filter number of room type

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
	object[]	List filter number of room type
id	int	Filter number of room type ID
name	string	Filter number of room type name

Error 4xx

Field	Туре	Description

```
// 20200411130804
// http://127.0.0.1:8000/api/filternumberofroom/
[
{
```

```
"id": 1,
 "name": "Tất cả"
 "id": 2,
 "name": "1"
},
 "id": 3,
 "name": "2"
},
 "id": 4,
 "name": "3"
},
 "id": 5,
 "name": "4"
 "id": 6,
 "name": "5"
},
 "id": 7,
 "name": "6+"
```

w. /api/filterposttime/

GET

Description: Return all filter post time type

Permission: Anyone

Field Type	Description
------------	-------------

Success 200

Field	Туре	Description
	object[]	List filter post time type
id	int	Filter post time type ID
name	string	Filter post time type name

Error 4xx

Field	Туре	Description

x. /api/search/?page=<int>

POST

(Beta version)

Description: Return estates with argument received. User can call this api without *page* param, default return page 1. Default: Items per page = 25

Permission: Anyone

Required: Add token to Authorization

(*) required

Field	Туре	Description
keyword	string	Search with keyword in title
province	string	Province ID
district	string	District ID
ward	string	Ward ID
street	string	Street ID
estate_type	string	Estate ID (Get ID from /api/estatetype)
sort	string	Sort ID
filter_max_price	string	Filter max price type ID (Get ID from

		/api/filtermaxprice)
filter_min_price	string	Filter min price type ID (Get ID from /api/filterminprice)
filter_area	string	Filter area type ID (Get ID from /api/filterarea)
filter_number_of_room	string	Filter number of room type ID (Get ID from /api/filternumberofroom)
filter_post_time	string	Filter number of room type ID (Get ID from /api/filterposttime)
device_id	string	Device ID

Field	Туре	Description
current_page	string	Current page
total_page	string	Total page
result	object[]	
id	int	Estate ID
title	string	Estate title
province	string	Estate Province
district	string	Estate District
contact	string	Contact
area	string	Estate area
price	string	Estate price
created_day	string	Create day
lat	string	Estate lat
lng	string	Estate lng
project	object	
id	int	Project id

name	string	Project name
lat	float	Project lat
lng	float	Project lng
images	object[]	
id	string	Image ID
image	string	Image URL

Field	Туре	Description

```
"area": "",
   "price": "",
   "lat": "".
   "lng": "",
   "project": {
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
  },
   "id": 25,
   "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
     "image": "http://127.0.0.1:8000/media/estate/25/2.jpg"
     "image": "http://127.0.0.1:8000/media/estate/25/1.jpg"
   -
"province": "Hồ Chí Minh",
   "district": "Quân 1",
   "contact": "0903 732 682",
   "project": {
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
  },
   "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
     "image": "http://127.0.0.1:8000/media/estate/26/2.jpg"
     "image": "http://127.0.0.1:8000/media/estate/26/1.jpg"
   "province": "Hồ Chí Minh",
   "district": "Quận 1",
```

```
"contact": "0903 732 682"

},

]
```

y. /api/searchonmap/

POST

Description: Return estates with argument received.

Permission: Anyone

(*) required

Required: Add token to Authorization

Parameter

Field	Туре	Description
lat_top_left	string	
lng_top_left	string	
lat_bottom_right	string	
lng_bottom_right	string	
device_id	string	Device ID

Field	Туре	Description
	object[]	
id	int	Estate ID
title	string	Estate title
province	string	Estate Province

district	string	Estate District
contact	string	Contact
area	string	Estate area
price	string	Estate price
created_day	string	Create day
lat	string	Estate lat
lng	string	Estate lng
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project Ing
images	object[]	
id	string	Image ID
image	string	Image URL

Field	Туре	Description

```
"title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
     "image": "http://127.0.0.1:8000/media/estate/24/2.jpg"
    },
     "image": "http://127.0.0.1:8000/media/estate/24/1.jpg"
   "province": "Hồ Chí Minh",
   "district": "Quận 1",
   "contact": "0903 732 682",
   "created_day": "",
   "area": "",
   "price": "",
   "lat": "".
   "lng": "",
   "project": {
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
 },
```

z. /api/postforyou/

GET

Description: Return all estate for the user.

Permission: Anyone

Parameter

Field	Туре	Description

Field	Туре	Description
	object[]	
id	int	Estate ID
title	string	Estate title
province	string	Estate Province
district	string	Estate District
contact	string	Contact
area	string	Area estate
price	string	Price estate
lat	string	Estate lat
lng	string	Estate lng
created_day	string	Create day
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project lng
images	object[]	
id	string	Image ID
image	string	Image URL

Field	Туре	Description

```
// 20200402175712
// http://127.0.0.1:8000/api/postforyou/
   "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
   -
"province": "Hồ Chí Minh",
   "district": "Quân 1",
   "contact": "0903 732 682",
   "area": 56.0,
   "price": 2100,
   "created_day": "2020-04-15T06:07:56.515816Z",
   "project": {
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
  },
   "id": 25,
   "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
   "province": "Hồ Chí Minh",
   "district": "Quận 1",
   "contact": "0903 732 682",
   "area": 56.0,
   "price": 2100,
   "created_day": "2020-04-15T06:07:56.515816Z",
   "project": {
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
  },
```

```
]
```

```
// 20200402180325

// http://127.0.0.1:8000/api/estate/

{

  "error_code": "0",

  "error_message": "fail - "

}
```

aa. /api/favorite/?page=<int>

GET

Description: Return all favorite estate of current user. User can call this api without *page* param, default return page 1. Default: Items per page = 25

Permission: Anyone

Parameter

(*) required

Required: Add token to Authorization

Field	Туре	Description

Field	Туре	Description
current_page	string	Current page
total_page	string	Total page
result	object[]	
estate	object	
id	int	Estate ID

estateType	string	Estate Type
images	object[]	
id	string	Image ID
image	string	Image URL
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project lng
province	string	Estate Province
district	string	Estate district
ward	string	Estate ward
street	string	Estate street
addressDetail	string	Estate address detail
title	string	Estate title
numberOfRoom	string	Number of room
description	string	Description
detail	string	Detail
price	int	Price
area	float	Area
contact	string	Contract
lat	string	Estate lat
lng	string	Estate lng

Field	Туре	Description

Response (example): Success

```
"current_page": "1",
  "total_page": "1",
  "result": [
    {
       "estate": {
         "id": 93,
         "images": [],
         "estateType": "Căn hộ, chung cư",
         "project": {
            "id": 1682,
            "name": "Nam Đô Complex",
            "lat": 20.979711532593,
            "lng": 105.84483337402
         "province": "Hà Nội",
         "district": "Hoàng Mai",
         "ward": "Thịnh Liệt",
         "street": "Trương Định",
         "addressDetail": "793/12",
         "title": "test page",
         "numberOfRoom": 2,
         "description": "Bán căn 406 CT2B Chung cư Nam Đô Complex 609 Trương
Định, phường Thịnh Liệt, quận Hoàng Mai, Hà Nội.",
         "detail": "",
         "price": 2350,
         "area": 88.7,
         "contact": "083.551.8688",
         "lat": "2.3342",
         "lng": "4.234934"
```

Response (example): Failed

```
// 20200402180325

// http://127.0.0.1:8000/api/estate/?page=10

{

"error_code": "0",

"error_message": "fail - index out of range"

}
```

POST

Description: Add a new favorite estate

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Parameter

Field	Туре	Description
id (*)	string	The estate id

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

```
// 20200330002452

// http://192.168.0.103:5000/api/favorite/

{
    "error_code": "1",
    "error_message": "Success."
}
```

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

DELETE

Description: Remove a exist favorite estate

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Parameter

Field	Туре	Description
id (*)	string	The estate id

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
// 20200330002452
// http://192.168.0.103:5000/api/favorite/
{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

bb. /api/favoriteid/

GET

Description: Return all favorite estate ID of current user.

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description

Success 200

Field	Туре	Description
	object[]	
estate_id	int	Estate ID

Error 4xx

Field	Туре	Description

Response (example): Success

Response (example): Failed

```
// 20200402180325

// http://127.0.0.1:8000/api/favoriteid/

{

"error_code": "0",

"error_message": "fail - i"
```

}				

cc. /api/news/?page=<int>

GET

Description: Return all news. User can call this api without *page* param, default return page 1. Default: Items per page = 25

Permission: Anyone

Parameter

Field	Туре	Description

Success 200

Field	Туре	Description
current_page	string	Current page
total_page	string	Total page
result	object[]	
id	int	News ID
title	string	News title
subTitle	string	News subtitle
content	string	News content
newsType	string	News type (beta)
images	object[]	
id	string	Image ID
image	string	Image URL
description	string	Image description

Error 4xx

Field	Туре	Description

```
// 20200424160203
// https://danganhhaotest.pythonanywhere.com/api/news/
 "current_page": 1,
 "total_page": "1",
 "result": [
   "id": 1.
   "title": "TP.HCM: Giá sơ cấp căn hô tăng nhe, thứ cấp giảm 5-10%",
   "subTitle": "Bất chấp tác đông tiêu cực từ đại dịch Covid-19 đạng khiến nhu cầu
giao dịch nhà đất suy giảm, giá chào bán căn hô chung cư tại TP.HCM vẫn tăng
nhe và dư báo khó giảm trong các tháng tới đây.",
   "content": "Giá căn hộ sơ cấp tăng nhe\n\nDù số lương sản phẩm chào bán và
nhu cầu mua nhà giảm manh, giá BĐS, đặc biệt là phân khúc cặn hộ vẫn ghi nhân
tăng trong quý 1/2020 vừa qua. \n\nCụ thể, số liệu báo cáo thị trường nhà đất tại
TP.HCM trong quý 1/2020 của Batdongsan.com.vn cho thấy, số lượng sản phẩm
căn hộ chào bán trong 4 tháng đầu năm giảm đến 27% trong khi nhu cầu tìm kiếm
phân khúc này cũng giảm xuống 16% so với 1 quý trước đó. ",
   "newsType": "Chung",
   "images": [
     "id": 1,
     "image":
"https://res.cloudinary.com/myrealestate/image/upload/v1587661334/news/1
/91540.jpg",
     "description": "Giá căn hộ sơ cấp tại TP.HCM tăng nhẹ do nguồn cung hạn
chế. Ảnh: Phương Uyên"
    },
     "id": 2,
     "image":
"https://res.cloudinary.com/myrealestate/image/upload/v1587661335/news/1
/142022.jpg",
     "description": "Giá rao bán căn hộ tại TP.HCM tăng 2% dù lượng quan tâm
giảm. Nguồn: Batdongsan.com.vn"
```

```
]
}
]
}
```

```
// 20200402180325

// http://127.0.0.1:8000/api/news/?page=10

{

  "error_code": "0",

  "error_message": "fail - index out of range"

}
```

dd./api/rating/

POST

Description: Update rating score

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Field	Туре	Description
item_id	int	Item Id
rating	int	Rating score

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

ee. /api/relatedestate/<int:id>/<int:k>/

GET

Description: Get k related estate, it's similar with <estate_id>

Permission: Anyone

Parameter

Field	Туре	Description

Field Type	Description
------------	-------------

	object[]	
id	int	Estate ID
title	string	Estate title
province	string	Estate Province
district	string	Estate District
contact	string	Contact
area	string	Estate area
price	string	Estate price
created_day	string	Create day
lat	string	Estate lat
lng	string	Estate lng
project	object	
id	int	Project id
name	string	Project name
lat	float	Project lat
lng	float	Project lng
images	object[]	
id	string	Image ID
image	string	Image URL

Field	Туре	Description

```
"id": 24,
   "title": "Bán mặt tiền Nguyễn Huy Tự, phường Đa Kao, quận 1, DT 90,5m2, LH
0903732***",
   "images": [
     "image": "http://127.0.0.1:8000/media/estate/24/2.jpg"
     "image": "http://127.0.0.1:8000/media/estate/24/1.jpg"
   "province": "Hồ Chí Minh",
   "district": "Quận 1",
   "contact": "0903 732 682",
   "created_day": "",
   "area": "",
   "price": "",
   "lat": "",
   "lng": ",
   "project": {
    "id": 1,
    "name": "13B Conic Phong Phú",
    "lat": 10.71240234375,
    "lng": 106.64177703857
 },
]
```

ff. /api/notification/registertoken/

POST

Description: Register fcm client token to notify.

Permission: Anyone

Parameter (*) required

Required: Add token to Authorization

Parameter

Field	Туре	Description
token(*)	string	FCM client token

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
// 20200330002452
// http://192.168.0.103:5000/api/notification/registertoken/
{
    "error_code": "1",
    "error_message": "Success."
}
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
```

}

gg. /api/notification/markasread/<int:notification_id>

GET

Description: Mark a notification read.

Permission: Anyone

Parameter: Get posts of current user

(*) required

Required: Add token to Authorization

Field	Туре	Description

Success 200

Field	Туре	Description
error_code	string	If success, return 1
error_message	string	Something

Error 4xx

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

```
// 20200330002452

// http://192.168.0.103:5000/api/notification/registertoken/

{
    "error_code": "1",
    "error_message": "Success."
}
```

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```

hh. /api/notification/all/?page=<int:page_number>

GET

Description: Get all notifications of a current user.

Permission: Anyone

Parameter: (*) required

Required: Add token to Authorization

Field	Туре	Description

Field	Туре	Description
current_page	int	
total_page	int	
result	object[]	
id	int	Notification id
title	string	Notification title
body	string	Notification body
estate_id	int	Estate, which modified
timestamp	datetime	
state	bool	Mark as read?

Field	Туре	Description
error_code	string	If fail, return 0
error_message	string	Something

Response (example): Success

```
// 20200330002452
// http://192.168.0.103:5000/api/notification/registertoken/
```

Response (example): Failed

```
{
    "error_code": "0",
    "error_message": "Something fail",
}
```