**API DOCUMENTATION FOR REAL ESTATE**

**Table of contents**

[**USER**](#_6ny1rnqoge9c) **2**

[/api/user/](#_v3aqgh854fqy) 2

[/api/user/login/](#_7aure6lhi3pj) 7

[WITH Username and Password](#_jkqvzvis1x35) 7

[WITH Token](#_zeqlvsf41li8) 9

[/api/user/logout/](#_rn5quldb02i) 11

[/api/user/forgot/](#_b2hon34bgpo) 12

[/api/user/reset/](#_eydwc030rzpe) 14

[/api/user/password/](#_aezfxvehvzc4) 15

[/api/user/checkingaccount/](#_fxkdobuvp2tr) 16

[/api/user/agency/](#_a1n5hsktx337) 18

[**PROJECT**](#_7sfwcmn5mla1) **20**

[/api/location/](#_uww8nntv6foy) 20

[/api/province/<int:id>](#_17uif5krgz0n) 22

[/api/province/<int:province\_id>/district/<int:district\_id>](#_czjjswn4sqot) 24

[/api/s/province/](#_wufytd1txoy6) 26

[/api/s/district/<int:province\_id>](#_ye2tp2wnriej) 27

[/api/s/ward/<int:district\_id>](#_kqrtxl4m5893) 29

[/api/s/street/<int:district\_id>](#_97eyieupxv26) 30

[/api/s/project/<int:district\_id>](#_xma0zv2gd5ke) 32

[/api/estatetype/](#_k2d41fzbkp6i) 33

[/api/estatestatus/](#_c7ku7q9yc70w) 34

[/api/transaction/](#_2w03wrwlkaje) 35

[/api/project/](#_oigpzi7vumai) 37

[/api/estate/?page=<int>](#_a1qrcwqkdq0v) 38

[/api/estate/<int:id>](#_kh71um2adsp) 41

[/api/post/?page=<int>](#_xyeh7zza8o8x) 44

[/api/sorttype/](#_fp0rzv67aciv) 51

[/api/filtermaxprice/](#_s8jzxqqztejt) 52

[/api/filterminprice/](#_qvs0086pwpx) 54

[/api/filterarea/](#_wtmd4cnt361) 56

[/api/filternumberofroom/](#_3vntbnv91u3g) 58

[/api/filterposttime/](#_ialb5ltm846z) 60

[/api/search/?page=<int>](#_m5dl435wwh31) 61

[/api/favorite/?page=<int>](#_ulai40so298r) 65

[/api/favoriteid/](#_6b9n3i7tbprn) 71

[/api/news/?page=<int>](#_kfkbsj565dfq) 72

# USER

## /api/user/

**GET**

Description: Return all users

**Permission: Admin**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |  |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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,  },  ] |

Response (example): Failed

|  |
| --- |
|  |

**POST**

Description: Create a new user

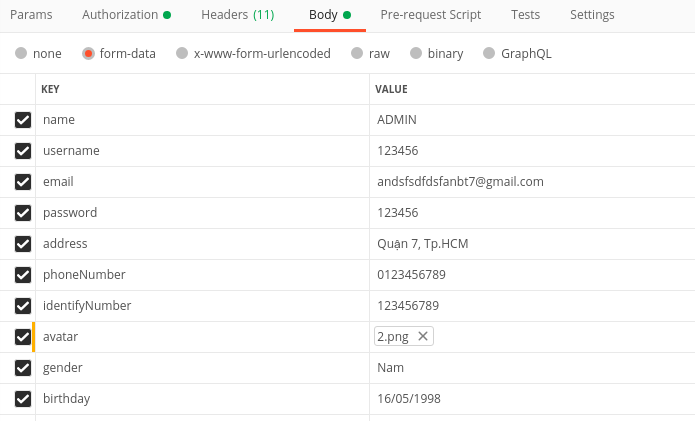
**Permission: Anyone**

Parameter

**(\*) required**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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

|  |
| --- |
| {  "error\_code": “2”,  "error\_message": "Username existed",  } |

**PUT**

Description: Motify a exist user

**Permission: Anyone**

Parameter

**(\*) required**

**Required:** Add token to Authorization

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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

|  |
| --- |
|  |

## /api/user/login/

### **WITH Username and Password**

**POST**

Description: Login

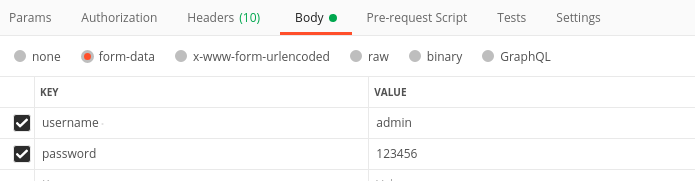
**Permission: Anyone**

Parameter

**(\*) required**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| username (\*) | string | User name |
| password (\*) | string | password |

Postman request example:

****

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
| error\_code | string | If fail, return 0 |
| error\_message | string | Something |

Response (example): Success

|  |
| --- |
| {  "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](mailto:admin@gmail.com)",  “isAgency”: True,  "identifyNumber": "123456789",  "token": "eyJ0eXAiOZV90aW1lIjoiMjAyMC0wMy0zMFQwNDowOTofRd\_Esxic4t25KLGaRMUE"  } |

Response (example): Failed

|  |
| --- |
| {  "error\_code": “0”,  "error\_message": "Something fail",  } |

### **WITH Token**

**POST**

Description: Login

**Permission: Anyone**

Parameter

**(\*) required**

**Required:** Add token to Authorization

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If fail, return 0 |
| error\_message | string | Something |

Response (example): Success

|  |
| --- |
| {  "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](mailto:admin@gmail.com)",  “isAgency”: True,  "identifyNumber": "123456789"  } |

Response (example): Failed

|  |
| --- |
| {  "error\_code": “0”,  "error\_message": "Something fail",  } |

## /api/user/logout/

**POST**

Description: Logout

**Permission: Anyone**

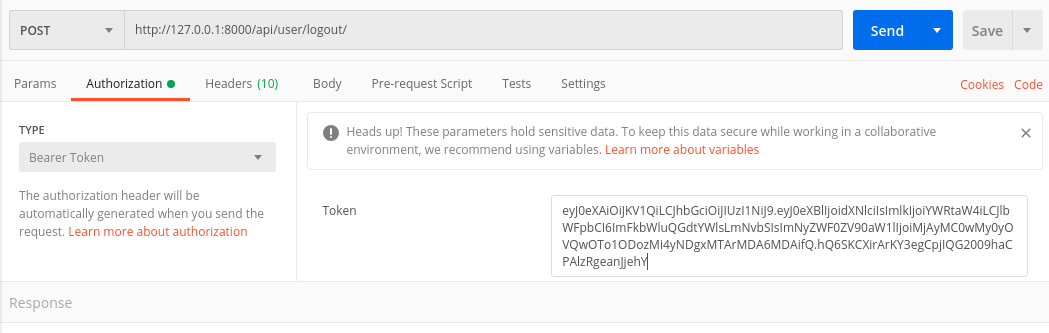
Parameter

**(\*) required**

**Required:** Add token to Authorization

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Postman request example:

****

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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",  } |

## /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

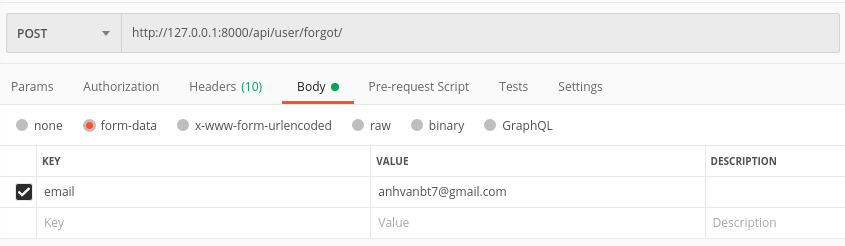
**Permission: Anyone**

Parameter

**(\*) required**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| email (\*) | string | The email which registered |

Postman request example:

****

Success 200

Check your mail, the email will be sent

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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",  } |

## /api/user/reset/

**POST**

Description: Call this api in order to reset your password

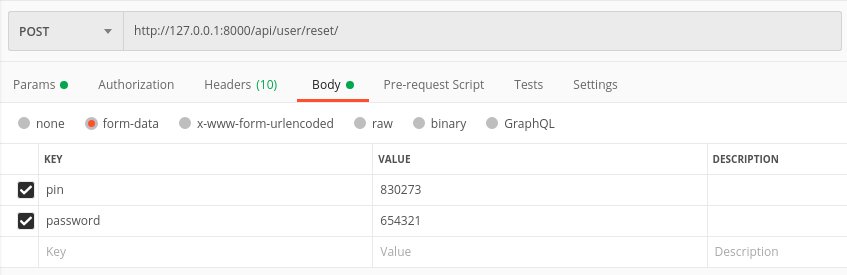
**Permission: Anyone**

Parameter

**(\*) required**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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",  } |

## /api/user/password/

**PUT**

Description: Change password

**Permission: Anyone**

Parameter

**(\*) required**

**Required:** Add token to Authorization

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| oldPassword (\*) | string | Old password |
| newPassword (\*) | string | New password |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Success |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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",  } |

## /api/user/checkingaccount/

**POST**

Description: Check account before upgrade to agency account.

**Permission: Anyone**

Parameter

**(\*) required**

**Required:** Add token to Authorization

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |  |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If fail, return 0 |
| error\_message | string | Something |

Response (example): Success

|  |
| --- |
| {  "id": 18,  "name": "admin test agency",  "username": "admin",  "email": "aaaa@gmail.com",  "gender": "abcxyz",  "birthday": "1900-01-01",  "address": "tren troi",  "avatar": "",  "phoneNumber": "0101011000101",  "identifyNumber": "1111111111111",  "isAgency": true  } |

Response (example): Failed

|  |
| --- |
| {  "error\_code": “0”,  "error\_message": "Something went wrong - ",  } |

## /api/user/agency/

**POST**

Description: Upgrade to agency account.

**Permission: Anyone**

Parameter

**(\*) required**

**Required:** Add token to Authorization

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| name (\*) | string | Real name |
| 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 |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 - ",  } |

# PROJECT

## /api/location/

**GET**

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

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200329204555  // http://127.0.0.1:8000/api/location/  [  {  "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",  "wards": [  {},{},...,],  "streets": [  {},{},...,],  },  {},  {},  ….] |

Response (example): Failed

|  |
| --- |
|  |

## /api/province/<int:id>

**GET**

Description: Return a special province

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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",  "wards": [  {},{},...,],  "streets": [  {},{},...,], |

Response (example): Failed

|  |
| --- |
|  |

## /api/province/<int:province\_id>/district/<int:district\_id>

**GET**

Description: Return a special district of a province

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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"  },  {},...],  } |

Response (example): Failed

|  |
| --- |
|  |

## /api/s/province/

**GET**

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

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| id | int | The province ID |
| name | string | The province name |
| code | string | The province code |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/s/district/<int:province\_id>

**GET**

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

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| id | int | The district ID |
| name | string | The district name |
| prefix | string | The district prefix |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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

|  |
| --- |
|  |

## /api/s/ward/<int:district\_id>

**GET**

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

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| id | int | The ward ID |
| name | string | The ward name |
| prefix | string | The ward prefix |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200414121009  // https://127.0.0.1:8000/api/s/ward/1  [  {  "id": 1,  "name": "An Phú Tây",  "prefix": "Xã"  },  {  "id": 2,  "name": "Bình Chánh",  "prefix": "Xã"  },  {  "id": 3,  "name": "Bình Hưng",  "prefix": "Xã"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/s/street/<int:district\_id>

**GET**

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

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| id | int | The street ID |
| name | string | The street name |
| prefix | string | The street prefix |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/s/project/<int:district\_id>

**GET**

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

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| id | int | The project ID |
| name | string | The project name |
| lat | float | The project lat |
| lng | float | The project lng |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200414121009  // https://127.0.0.1:8000/api/s/project/1  [  {  "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  },  {  "id": 3,  "name": "13E Phong Phú",  "lat": 10.704967498779,  "lng": 106.64633178711  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/estatetype/

**GET**

Description: Return all estate type

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List estate type |
| id | int | Estate type ID |
| name | string | Estate type name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200329211216  // http://127.0.0.1:8000/api/estatetype/  [  {  "id": 1,  "name": "Nhà riêng"  },  {  "id": 2,  "name": "Căn hộ, chung cư"  },  {  "id": 3,  "name": "Biệt thự"  },  {},  …  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/estatestatus/

**GET**

Description: Return all estate status

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List estate status |
| id | int | Estate status ID |
| status | string | Estate status name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200329211918  // http://127.0.0.1:8000/api/estatestatus/  [  {  "id": 10,  "status": "Open"  },  {  "id": 11,  "status": "Close"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/transaction/

**GET**

Description: Return all transaction

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List transaction |
| id | int | Transaction ID |
| name | string | Transaction name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200329212046  // http://127.0.0.1:8000/api/transaction/  [  {  "id": 5,  "name": "Mua"  },  {  "id": 6,  "name": "Bán"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/project/

**GET**

Description: Return all project

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List project |
| id | int | Project ID |
| name | string | Project name |
| lat | float | lat address |
| lng | float | lng address |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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

|  |
| --- |
|  |

## /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**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200402175712  // http://127.0.0.1:8000/api/estate/?page=1  {  "current\_page": 1,  "total\_page": "1",  "result": [  {  "id": 24,  "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  }  },  {  "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  }  },  ]  } |

Response (example): Failed

|  |
| --- |
| // 20200402180325  // http://127.0.0.1:8000/api/estate/?page=10  {  "error\_code": "0",  "error\_message": "fail - index out of range"  } |

## /api/estate/<int:id>

**GET**

Description: Return a special estate

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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"  } |

Response (example): Failed

|  |
| --- |
|  |

## /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** | **Type** | **Description** |
|  |  |  |

Parameter : Get posts of a any user

**(\*) required**

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| id (\*) | string | Author ID |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |
| dateFrom | string | Date post |
| dateTo | string | Date expire |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |
| 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** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |
| 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** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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",  } |

## /api/sorttype/

**GET**

Description: Return all sort type

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List sort type |
| id | int | Sort type ID |
| name | string | Sort type name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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"  },  {  "id": 5,  "name": "Diện tích nhỏ nhất"  },  {  "id": 6,  "name": "Diện tích lớn nhất"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/filtermaxprice/

**GET**

Description: Return all filter max price type

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List filter max price type |
| id | int | Filter max price type ID |
| name | string | Filter max price type name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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

|  |
| --- |
|  |

## /api/filterminprice/

**GET**

Description: Return all filter min price type

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List filter min price type |
| id | int | Filter min price type ID |
| name | string | Filter min price type name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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): Failed

|  |
| --- |
|  |

## /api/filterarea/

**GET**

Description: Return all filter area type

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List filter area type |
| id | int | Filter area type ID |
| name | string | Filter area type name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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

|  |
| --- |
|  |

## /api/filternumberofroom/

**GET**

Description: Return all filter number of room type

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 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+"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /api/filterposttime/

**GET**

Description: Return all filter post time type

**Permission: Anyone**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] | List filter post time type |
| id | int | Filter post time type ID |
| name | string | Filter post time type name |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200411130921  // http://127.0.0.1:8000/api/filterposttime/  [  {  "id": 1,  "name": "Tất cả"  },  {  "id": 2,  "name": "Cách đây 1 ngày"  },  {  "id": 3,  "name": "Cách đây 3 ngày"  },  {  "id": 4,  "name": "Cách đây 7 ngày"  },  {  "id": 5,  "name": "Cách đây 15 ngày"  },  {  "id": 6,  "name": "Cách đây 30 ngày"  }  ] |

Response (example): Failed

|  |
| --- |
|  |

## /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**

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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) |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200402175712  // http://127.0.0.1:8000/api/search/?page=1  {  "current\_page": "1",  "total\_page": "4",  "result": [  {  "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  }  },  {  "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": "Quận 1",  "contact": "0903 732 682",  "project": {  "id": 1,  "name": "13B Conic Phong Phú",  "lat": 10.71240234375,  "lng": 106.64177703857  }  },  {  "id": 26,  "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"  },  ]  } |

Response (example): Failed

|  |
| --- |
|  |

## /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** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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 |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
| id (\*) | string | The estate id |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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",  } |

**DELETE**

Description: Remove a exist favorite estate

**Permission: Anyone**

Parameter

**(\*) required**

**Required:** Add token to Authorization

Parameter

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| id (\*) | string | The estate id |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
| error\_code | string | If success, return 1 |
| error\_message | string | Something |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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",  } |

## /api/favoriteid/

**GET**

Description: Return all favorite estate ID of current user.

**Permission: Anyone**

Parameter

**(\*) required**

**Required:** Add token to Authorization

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  | object[] |  |
| estate\_id | int | Estate ID |

Error 4xx

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| [  {  "estate\_id": 93  },  {  "estate\_id": 94  },  {  "estate\_id": 92  },  {  "estate\_id": 91  }  ] |

Response (example): Failed

|  |
| --- |
| // 20200402180325  // http://127.0.0.1:8000/api/favoriteid/  {  "error\_code": "0",  "error\_message": "fail - i"  } |

## /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** | **Type** | **Description** |
|  |  |  |

Success 200

|  |  |  |
| --- | --- | --- |
| **Field** | **Type** | **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** | **Type** | **Description** |
|  |  |  |

Response (example): Success

|  |
| --- |
| // 20200424160203  // https://danganhhaotest.pythonanywhere.com/api/news/  {  "current\_page": 1,  "total\_page": "1",  "result": [  {  "id": 1,  "title": "TP.HCM: Giá sơ cấp căn hộ tăng nhẹ, thứ cấp giảm 5-10%",  "subTitle": "Bất chấp tác động tiêu cực từ đại dịch Covid-19 đang khiến nhu cầu giao dịch nhà đất suy giảm, giá chào bán căn hộ chung cư tại TP.HCM vẫn tăng nhẹ và dự báo khó giảm trong các tháng tới đây.",  "content": "Giá căn hộ sơ cấp tăng nhẹ\n\nDù số lượng sản phẩm chào bán và nhu cầu mua nhà giảm mạnh, giá BĐS, đặc biệt là phân khúc căn hộ vẫn ghi nhận 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"  }  ]  }  ]  } |

Response (example): Failed

|  |
| --- |
| // 20200402180325  // http://127.0.0.1:8000/api/news/?page=10  {  "error\_code": "0",  "error\_message": "fail - index out of range"  } |