No	Function	Method	Route	Required params	Optional params	Sample	Response

1	Login	POST	/login	{username, password}		{
						"username":"admin",
						"password":"admin"
						}
							{
							"error_code":0,
							"token":"
							jv0NFQkGj1JDO0rVZE2hhJYjdoKIOkvu15xykpHqBbvt7wxnUseXYYyopQlrXJLw2ILwkQfi12b3DjGLGrlA
							qrsav30NteAQiEtmT5zIrdZGQfvI3zX29aCvmG98qrMX"
							}

2	Logout	POST	/logout	{token}		{
						"token":"
						GWWLHiFo0x1orq87LD411SjgtQkkE54rq7wbp
						UOYEmVTfuIzxgm4MWccHsuq53BUvNeX7Hzi
						p9dcfi6nqfZSzENr6TrHqsXWAmASAJyBMFWft
						0L17GJsDUk0RNuoKhZH"
						}
							{
							"error_code":0
							}

3	Lấy dữ liệu để vẽ biểu đồ	GET	/GraphData				{ "error_code": 0, "result": [{ "AQI": 92, "Date": "2019-12-21 12:59:15", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:17", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:19", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:21", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:23", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:25", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:27", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:29", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:31", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:33", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:35", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:37", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:39", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:41", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:43", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:45", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:47", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:49", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:51", "Humidity": 80, "Temperature": 20 }, { "AQI": 92, "Date": "2019-12-21 12:59:53", "Humidity": 80, "Temperature": 20

4	Lấy dữ liệu để hiện các chỉ số	GET	/RealData				{
							"error_code": 0,
							"result": {
							"AQI": 92,
							"Date": "2019-12-24 09:04:42",
							"Humidity": 79,
							"Temperature": 25
							}
							}

No	Function	Method	Route	Required params	Optional params	Sample	Response
5	Lấy thông báo	POST	/notifications/get	{token}	{start_time, end_time}	{ "token":" GWWLHiFo0x1orq87LD411SjgtQkkE54rq7wbp UOYEmVTfulzxgm4MWccHsuq53BUvNeX7Hzi p9dcfi6nqfZSzENr6TrHqsXWAmASAJyBMFWft 0L17GJsDUk0RNuoKhZH" }	{ "error_code":0, "number_of_notifications":16, "notification_0":{ "id":2958, "for_user":"linhnv", "message":"Perfect weather. It's time to go camping. Temperature: 24.7 AQI: 29 Humidity: 43%.", "time":"2019-12-23T20:11:40.000Z", "seen":"false", "title":"What a beautiful day" }, "notification_1":{ "id":3815, "for_user":"linhnv", "message":"Hmmm, Winter is coming. Watch out. Temperature: 10 AQI: 84 Humidity: 28%.", "time":"2019-12-22T20:16:39.000Z", "seen":"false", "title":"Be careful" }, "notification_2":{ "id":4050, "for_user":"linhnv", "message":"Have you packed for your trip. Nice weather out there. Temperature: 27.1 AQI: 3 Humidity: 36%.", "time":"2019-12-23T18:17:07.000Z", "seen":"false", "title":"Tremendous weather" }, "notification_3":{ "id":4202, "for_user":"linhnv", "message":"The sky is blue, I want to play too. Temperature: 23.6 AQI: 1 Humidity: 43%.", "time":"2019-12-22T10:48:44.000Z", "seen":"false", "title":"Beautiful weather" }, "notification_4":{ "id":4988, "for_user":"linhnv", "message":"Be careful when you go out. The weather doesn't look good. Temperature: 13.9 AQI: 120 Humidity: 16%.", "time":"2019-12-22T23:48:45.000Z", "seen":"false", "title":"Heads up for bad weather" }, "notification_5":{ "id":5872, "for_user":"linhnv", "message":"The sky is blue, I want to play too. Temperature: 27.4 AQI: 22 Humidity: 40%.", "time":"2019-12-23T14:20:05.000Z", "seen":"false", "title":"Beautiful weather" }, "notification_6":{ "id":6223, "for_user":"linhnv", "message":"Perfect weather. It's time to go camping. Temperature: 24 AQI: 12 Humidity: 47%.", "time":"2019-12-23T03:03:42.000Z", "seen":"false", "title":"What a beautiful day" }, "notification_7":{ "id":6726, "for_user":"linhnv", "message":"BBQ time. What a nice day. Temperature: 24.2 AQI: 25 Humidity: 41%.", "time":"2019-12-23T15:47:19.000Z", "seen":"false", "title":"Beautiful weather" }, "notification_8":{ "id":6896, "for_user":"linhnv", "message":"Nice. Go out and make some BBQ. Temperature: 24.6 AQI: 17 Humidity: 45%.", "time":"2019-12-23T19:23:15.000Z", "seen":"false", "title":"What a beautiful day" }, "notification_9":{ "id":7277, "for_user":"linhnv", "message":"BBQ time. What a nice day. Temperature: 21.4 AQI: 29 Humidity: 48%.", "time":"2019-12-22T06:28:52.000Z", "seen":"false", "title":"Beautiful weather" }, "notification_10":{ "id":8748, "for_user":"linhnv", "message":"Hmmm, Winter is coming. Watch out. Temperature: 5.7 AQI: 49 Humidity: 16%.", "time":"2019-12-22T04:46:16.000Z", "seen":"false", "title":"Be careful" }, "notification_11":{ "id":8856, "for_user":"linhnv", "message":"Be careful when you go out. The weather doesn't look good. Temperature: 8.7 AQI: 38 Humidity: 0%.", "time":"2019-12-22T12:18:44.000Z", "seen":"false", "title":"Heads up for bad weather" }, "notification_12":{ "id":8911, "for_user":"linhnv", "message":"The sky is blue, I want to play too. Temperature: 23 AQI: 6 Humidity: 45%.", "time":"2019-12-22T21:58:21.000Z", "seen":"false", "title":"Beautiful weather" }, "notification_13":{ "id":10326, "for_user":"linhnv", "message":"Have you packed for your trip. Nice weather out there. Temperature: 25.7 AQI: 15 Humidity: 31%.", "time":"2019-12-22T20:40:17.000Z", "seen":"false", "title":"Tremendous weather" }, "notification_14":{ "id":11842, "for_user":"linhnv",
6	Thêm User	POST	/admin/add-user	{token, username, password, first_name, last_name, phone_number, email, gender, address, role}		{ "token":" jv0NFQkGj1JDO0rVZE2hhJYjdoKIOkvu15xykp HqBbvt7wxnUseXYYyopQlrXJLw2lLwkQfi12b3 DjGLGrlAqrsav30NteAQiEtmT5zIrdZGQfvl3zX2 9aCvmG98qrMX", "username":"test_user", "password":"123456", "first_name":"User", "last_name":"Test", "phone_number":"0123456789", "email":"user@domain.com", "gender":"Male", "address":"133 Xuan Thuy, Cau Giay", "role":"standard" }	{ "error_code":0, "token":" J7ga2Ew5682ZYXFISRS3Qo84owWEO6clFzvyAadMOJqjNaCzNrtAyGIoLnLpXAmQIP9B1tKNPhliuMex VV1yZRMInrA5h9I75fiu32C5qwzpsYiICfErkdlwQZreIKoZ" }
7	Sửa thông tin User	POST	/admin/modify-user	{token, username}	{password, first_name, last_name, phone_number, email, gender, address}	{ "token":" jv0NFQkGj1JDO0rVZE2hhJYjdoKIOkvu15xykpHqB bvt7wxnUseXYYyopQlrXJLw2lLwkQfi12b3DjGLGrlA qrsav30NteAQiEtmT5zIrdZGQfvl3zX29aCvmG98qr MX", "username":"test_user", "first_name":"Lam", "last_name":"Tung", "gender":"Other" }	{ "error_code":0 }
8	Xóa User	POST	/admin/delete-user	{token, username}		{ "token":" 54VjjrNCx3hpmS9ZlbXvckgZZaBvaPXekKejYwz0br 1FWCNicfhmBsffHJYE666q4MSB2Mp4ZQ08RorDm aOPHnMEjKrty0d6aGJEqwRBwQxZWaWMfepMT8 yjHF1pZ2j9", "username":"lamnt"	{ "error_code":0 }

No	Function	Method	Route	Required params	Optional params	Sample	Response

9	Lấy danh sách các User	POST	/admin/list-user	{token}		{
						  "token":"
						GWWLHiFo0x1orq87LD411SjgtQkkE54rq7wbp
						UOYEmVTfulzxgm4MWccHsuq53BUvNeX7Hzi
						p9dcfi6nqfZSzENr6TrHqsXWAmASAJyBMFWft
						0L17GJsDUk0RNuoKhZH"
						}
							{
							"error_code":0,
							"number_of_users":6,
							"user_0":{
							  "id":1,
							  "username":"admin",
							  "password":"admin",
							  "first_name":"Admin",
							  "last_name":"System",
							  "gender":"Other",
							  "email":"admin@54.237.117.36",
							  "phone_number":"0123456789",
							  "address":"144 Xuan Thuy, Cau Giay, HN",
							  "role":"admin",
							  "locking_state":"unlock"
							},
							"user_1":{
							  "id":15,
							  "username":"linhnv",
							  "password":"12345",
							  "first_name":"Linh",
							  "last_name":"Nguyen Viet dgsdg",
							  "gender":"Male",
							  "email":"linhnv@54.237.117.36",
							  "phone_number":"01234564535",
							  "address":"27 Le Van Luong, Ha Noi, dgss",
							  "role":"standard",
							  "locking_state":"unlock"
							},
							"user_2":{
							  "id":16,
							  "username":"longpt",
							  "password":"123456",
							  "first_name":"Longd",
							  "last_name":"Pham Thien",
							  "gender":"Male",
							  "email":"longpt@54.237.117.36",
							  "phone_number":"0123456789",
							  "address":"144 Xuan Thuy, Cau Giay, Ha Noi",
							  "role":"standard",
							  "locking_state":"unlock"
							},
							"user_3":{
							  "id":33,
							  "username":"thuytt",
							  "password":"123456",
							  "first_name":"Thuy",
							  "last_name":"Tran Truongb",
							  "gender":"Male",
							  "email":"thuytt@54.237.117.36",
							  "phone_number":"0987654321",
							  "address":"Eurpoe",
							  "role":"standard",
							  "locking_state":"unlock"
							},
							"user_4":{
							  "id":59,
							  "username":"tunghx",
							  "password":"tunghx",
							  "first_name":"Tung",
							  "last_name":"Hoang Xuan",
							  "gender":"Male",
							  "email":"tunghx@54.237.115.36",
							  "phone_number":"0123456789",
							  "address":"144 Xuan Thuy, Cau Giay, HN",
							  "role":"admin",
							  "locking_state":"unlock"
							},
							"user_5":{
							  "id":61,
							  "username":"lamnt",
							  "password":"tungtobi",
							  "first_name":"Lam",
							  "last_name":"Nguyen Tung",
							  "gender":"Male",
							  "email":"tungtobi@gmail.com",
							  "phone_number":"+84329886758",
							  "address":"133 Xuan Thuy, Cau Giay",
							  "role":"standard",
							  "locking_state":"lock"
							}
							}

10	Mở khóa User	POST	/admin/unlock-user	{token, username}		{
						  "token":"
						jv0NFQkGj1JDO0rVZE2hhJYjdoKlOkvu15xykpHqB
						bvt7wxnUseXYYyopQlrXJLw2lLwkQfi12b3DjGLGrlA
						qrsav30NteAQiEtmT5zIrdZGQfvl3zX29aCvmG98qr
						MX",
						  "username":"test_user"
						}
							{
							"error_code":0
							}

11	Khóa tài khoản User	POST	/admin/lock-user	{token, username}		{
						  "token":"
						jv0NFQkGj1JDO0rVZE2hhJYjdoKlOkvu15xykpHqB
						bvt7wxnUseXYYyopQlrXJLw2lLwkQfi12b3DjGLGrlA
						qrsav30NteAQiEtmT5zIrdZGQfvl3zX29aCvmG98qr
						MX",
						  "username":"test_user"
						}
							{
							"error_code":0
							}

12	Lấy thông tin user cho mọi rol	POST	/user/info	{token}		{
						  "token":"
						GWWLHiFo0x1orq87LD411SjgtQkkE54rq7wbp
						UOYEmVTfulzxgm4MWccHsuq53BUvNeX7Hzi
						p9dcfi6nqfZSzENr6TrHqsXWAmASAJyBMFWft
						0L17GJsDUk0RNuoKhZH"
						}
							{
							"id":1,
							"username":"admin",
							"password":"admin",
							"first_name":"Admin",
							"last_name":"System",
							"gender":"Other",
							"email":"admin@54.237.117.36",
							"phone_number":"0123456789",
							"address":"144 Xuan Thuy, Cau Giay, HN",
							"role":"admin",
							"locking_state":"unlock",
							"error_code":0
							}

13	Sửa thông tin user cho mọi rol	POST	/user/modify-user	{token}	{password, first_name, last_name, phone_number, email, gender, address}	{
						  "token":"
						jv0NFQkGj1JDO0rVZE2hhJYjdoKlOkvu15xykpHqB
						bvt7wxnUseXYYyopQlrXJLw2lLwkQfi12b3DjGLGrlA
						qrsav30NteAQiEtmT5zIrdZGQfvl3zX29aCvmG98qr
						MX",
						  "gender":"Male",
						  "phone_number":"0329883434"
						}
							{
							"error_code":0
							}