# ĐÈ TÀI:

Server Management System (VCS-SMS)

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# YÊU CẦU CHỨC NĂNG





Kiểm tra trạng thái của server

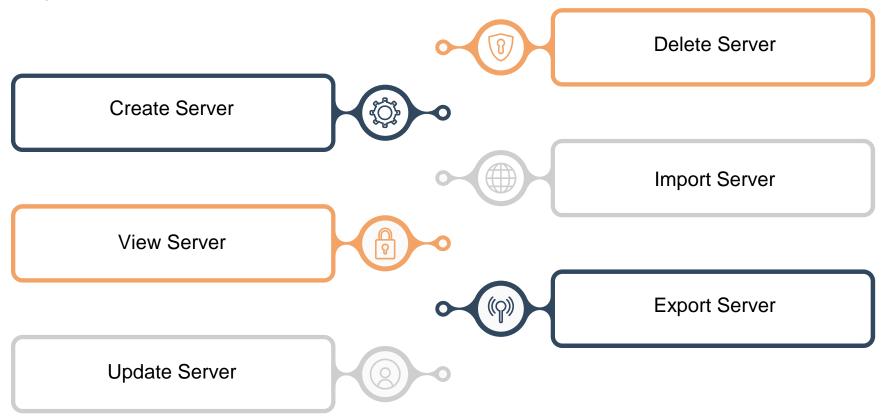


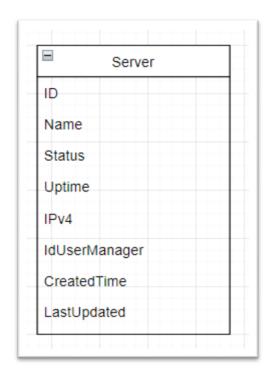
Quản lý server



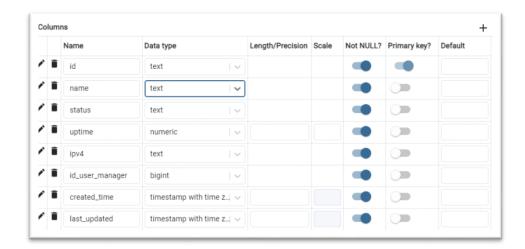
Báo cáo
Send daily report to mail
(automatically & manually)

# QUẢN LÝ SERVER

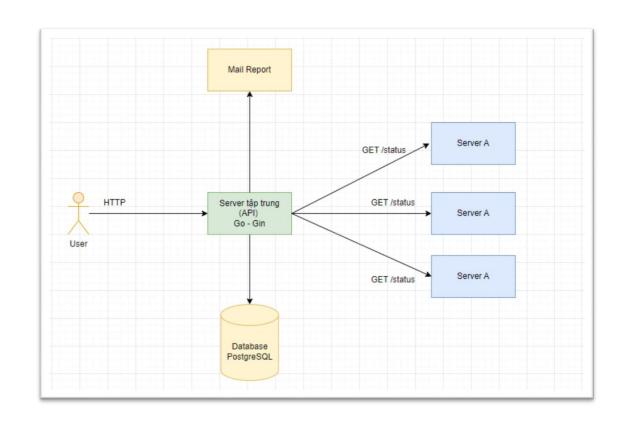




# MODEL HỆ THÔNG

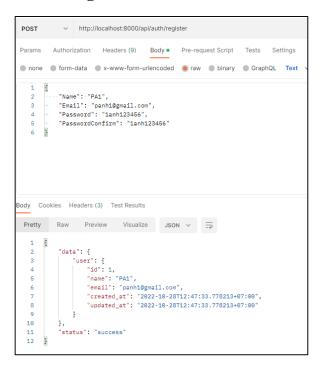






#### Token

#### 1. Register





#### 2. Login

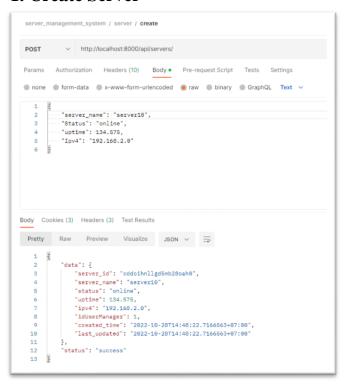






## YÊU CẦU CHỨC NĂNG – I. QUẢN LÝ SERVER

#### 1. Create Server



```
POST
                http://localhost:8000/api/servers/
         Authorization Headers (10)
                                             Pre-request Script
 none form-data x-www-form-urlencoded raw binary
           "server name": "server10",
         ··· "Status": "online",
         ···"uptime": 134.575,
         "Ipv4": "192.168.2.0"
Body Cookies (3) Headers (3) Test Results
           Raw Preview Visualize JSON V
           "message": "Server with that Name already exists",
   3
           "status": "fail"
```

#### 2. View Servers

server_management_system / server / view											
GET	http://localhost:8000/api/servers/view										
Params • Authorization Headers (8) Body Pre-request Script Tests Settings  Query Params											
	EY VALUE										
	fiset 0										
O lin	nit 10										
so	ortRequired status										
Ke	ey Value										
Body Co											
68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90	"server_id": "cd9s8a4mr8d1255231j0",     "server_name": "server",     "status": "online",     "uptime": 1234.678,     "ipwi": "1923.678,     "created_time": "2022-18-28712:54:41.388918+07:80",     "last_updated": "2022-18-28712:54:41.388918+07:80",     "server_id": "cd9qh5cmr0dgea58osrg",     "server_id": "server",     "server_inme": "server",     "status: "online",     "uptime": 1234.678,     "ipwi": "1921.682.2.6,     "created_time": "2022-18-28712:54:41.388918+07:80",     "last_updated": "2022-18-28712:54:41.388918+07:80",     "last_updated": "2022-18-28712:54:41.388918+07:80",     "results": 9.     "sort": "name",     "status": "success"										

server_management_system / server / view	
GET   http://localhost:8000/api/servers/view?filterRequired=status&value	eRequired=online
Params • Authorization Headers (8) Body Pre-request Script Tests  Query Params	Settings
KEY	VALUE
offset	0
limit	10
sortRequired	status
✓ filterRequired	status
✓ valueRequired	online
Key	Value
"server_name": "server8",  "status": "online",  36	

#### 3. Update Server

```
server_management_system / server / update
            http://localhost:8000/api/servers/cd9qh5cmr0dgea58osrg
         Authorization
                      Headers (10)
                                    Body • Pre-request Script Tests Settings
 none form-data x-www-form-urlencoded raw binary GraphQL Text
   1
           "Status": "online"
Body Cookies (3) Headers (3) Test Results
          Raw Preview Visualize JSON V
 Pretty
   1
   2
           "data": {
              "server_id": "cd9qh5cmr0dgea58osrg",
              "server name": "server9".
              "status": "online",
              "uptime": 1234.678,
              "ipv4": "192.168.2.6",
              "idUserManager": 1,
              "created_time": "2022-10-28T12:54:41.300918+07:00",
  10
              "last updated": "2022-10-28T14:53:11.2176338+07:00"
  11
  12
           "status": "success"
  13
```

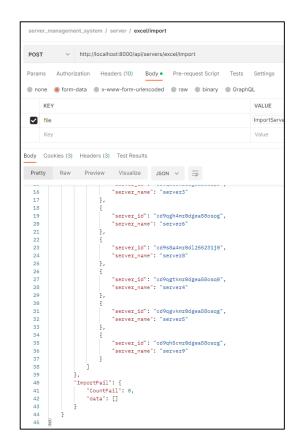
```
server_management_system / server / update
               http://localhost:8000/api/servers/cd94b77llgd5mr16khbg
PUT
                                     Body •
                                              Pre-request Script
         Authorization
                       Headers (10)
none form-data x-www-form-urlencoded raw binary G
          "Status": "online"
  3
    Cookies (3) Headers (3) Test Results
                  Preview
Pretty
                             Visualize
          "message": "No Server with that Id exists",
  3
          "status": "fail"
  4
```

#### 4. Delete Server with ID, Delete All Server



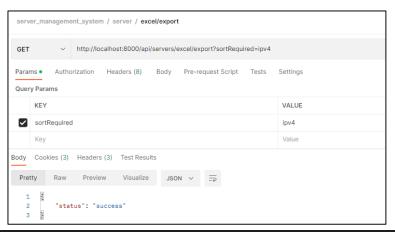
	teAll								
DELI	ETE	~	http://le	ocalhost	:8000/api	i/servers/			
	ns — y Para		zation	Header	's (8)	Body	Pre-requ	est Script	Te
Quer	-								
	KEY								
	Key								
Body	Coo	kies (3)	Header	rs (3)	Test Resu	llts			
Body		kies (3)			Fest Resu Visualize		DN ~	<del>_</del> -	

### 5. Import Servers



```
server_management_system / server / excel/import
           http://localhost:8000/api/servers/excel/import
Params Authorization Headers (10) Body • Pre-request Script Tests
none form-data x-www-form-urlencoded raw binary Graph
     KEY
✓ file
Body Cookies (3) Headers (3) Test Results
                 Preview
                            Visualize
  17
  18
  19
                          "server_id": "cd9qgh4mr0dgea58ospg",
  20
                          "server_name": "server6"
  21
  22
  23
                          "server_id": "cd9qgtkmr0dgea58osq0",
  24
                          "server_name": "server4"
  25
  26
  27
                          "server_id": "cd9qgvkmr0dgea58osqg",
  28
                          "server name": "server5"
  29
  30
  31
                          "server_id": "cd9qh5cmr0dgea58osrg",
  32
                         "server_name": "server9"
  33
  34
  35
  36
              "ImportFail": {
  37
                  "CountFail": 1,
  38
                  "data": [
  39
  40
                          "server id": "cd9s8a4mr0dl255231i0".
  41
                          "server_name": "server8"
  42
  43
  44
  45
  46
```

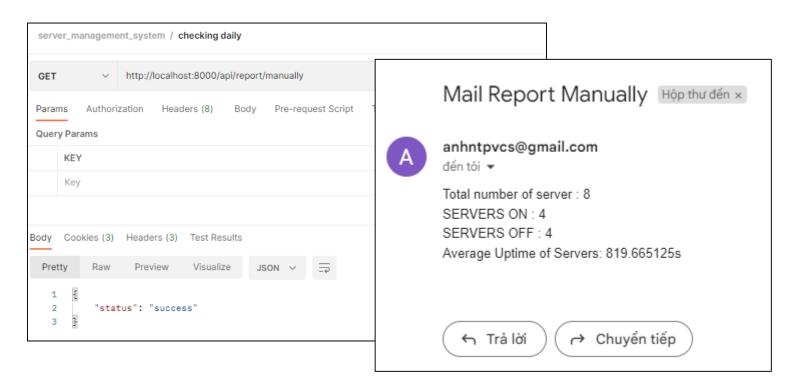
6. Export Servers



	Α	Ŧ	В	¥	С	¥	D	¥	E	Ŧ	F	Ŧ	G	¥	н	¥
1	ID		Name		Status		ı	Uptime	lpv4		IdUserMa	nager	CreatedT	ime	LastUpdat	ted
2	cddom9vll	gd5m	server8		online			134.58	192.168.2.0	)		1	10/28/22	2:56	10/28/22	2:56
3	cd9qgtkmi	0dge	server4		offline		1	,234.68	192.168.2.1	1		0	10/28/22	2:56	10/28/22	2:56
4	cd9qd2sm	r0dge	server1		online		1	,234.68	192.168.2.1	14		0	10/28/22	2:56	10/28/22	2:56
5	cd9qdscm	r0dge	server3		offline			124.68	192.168.2.1	16		0	10/28/22	2:56	10/28/22	2:56
6	cd9qgvkm	r0dge	server5		offline		1	,234.68	192.168.2.2	2		0	10/28/22	2:56	10/28/22	2:56
7	cd9qdocm	r0dge	server2		online			124.68	192.168.2.	5		0	10/28/22	2:56	10/28/22	2:56
8	cd9qh5cm	r0dge	server9		online		1	,234.68	192.168.2.6	5		0	10/28/22	2:56	10/28/22	2:56
9	cd9qgh4m	r0dge	server6		offline		1	,234.68	192.168.2.7	7		0	10/28/22	2:56	10/28/22	2:56

#### YÊU CÂU CHỰC NĂNG – II. SEND DAILY REPORT TO MAIL

#### 1. Report Manually



#### 2. Report Automatically

```
SEND_MAIL_TIME = '15:15:00'
```

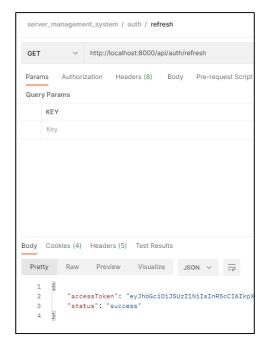
```
func (sc ServerController) DailyReport() {
   timeat := viper.GetString("SEND_MAIL_TIME")
   gocron.Every(1).Day().At(timeat).Do(sc.SendEmail)
   <-gocron.Start()
}</pre>
```

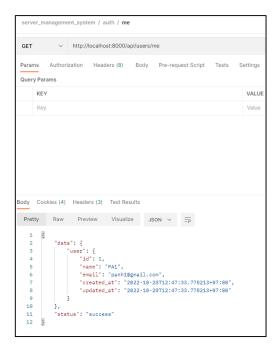


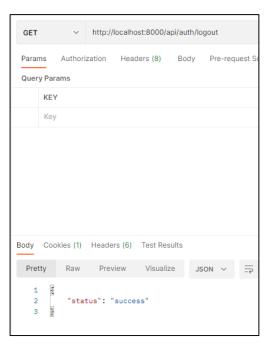


## YÊU CẦU CHỨC NĂNG III. KIỂM TRA TRẠNG THÁI CỦA SERVER

#### YÊU CẦU PHI CHỨC NĂNG







## THANKS FOR WATCHING



Link github: <a href="https://github.com/panhdjf/server\_management\_system">https://github.com/panhdjf/server\_management\_system</a>
API agent: <a href="https://github.com/panhdjf/server\_management\_system">https://github.com/panhdjf/server\_management\_system</a>