Controller API Documentation

VM Requests:

```
URL: <IP>:<Port>/vms/
Method:
     - POST (VM Creation Request)
Body:
```

```json
     {
             "name": "VM Name",

             "description": "VM Description",

             "owner": "Workspace Name",

             "networks": ["Network-01 Name", "Network-02 Name", ],

             "area": "Area Name",

             "template": "Template Name",

             "password": "raw password"

     }
```

```
Response:
```

```json
     {
             "name": "VM Name",

             "description": "VM Description",

             "owner": "Workspace Name",

             "networks": ["Network-01 Name", "Network-02 Name", ],

             "area": "Area Name",

             "template": "Template Name",

             "password": "raw password",

             "ip": "10.10.10.7/24"

     }
```

URL: <IP>:<Port>/vms/

Method:

     - DELETE (VM Deletion Request)
Body:

     {

          "name": "Network Name",

          "owner": "Workspace Name"

     }

URL: <IP>:<Port>/vms/

Methods:

     - PUT (Edit VM Information)
Body:

     {

          "name": "VM Name",

          "owner": "Workspace Name",

          "update_dict": {

                    "name": "New VM Name",

                    "description": "New VM Description",

                    "new_networks": [{"name": "Network-01 Name"},]

                    }

     }

Network Requests:

URL: <IP>:<Port>/networks/

Method:

```
- POST ( Creation Request)
```

Body:

```
{
        "name": "Network Name",

        "description": "Network Description",

        "owner": "Workspace Name"

}
```

URL: <IP>:<Port>/networks/

Method:

```
- DELETE (Network Deletion Request)
```

Body:

```
{
        "name": "Network Name",

        "owner": "Workspace Name"

}
```

URL: <IP>:<Port>/networks/

Methods:

```
- PUT (Edit Network Information)
```

Body:

```
{
```

```
        "name": "Network Name",

        "owner": "Workspace Name",

        "update_dict": {

                "name": "New Network Name",

                "description": "New Network Description"

                }

    }
```

Router Requests:

URL: <IP>:<Port>/routers/

```
Method:
    - POST (Router Creation Request)
Body:

    {

        "name": "Router Name",

        "owner": "Workspace Name"

    }
```

URL: <IP>:<Port>/routers/

```
Method:
    - DELETE (Router Deletion Request)
Body:

    {

        "name": "Router Name",

        "owner": "User Name"

    }
```

URL: <IP>:<Port>/routers/

Methods:

     - PUT (Edit Network Information)
Body:

     {

             "name": "router Name",

             "owner": "Workspace Name",

             "update_dict": {

                             "name": "New Router Name"

                             }

     }

Router Interface Requests:

URL: <IP>:<Port>/interfaces/

Method:

     - POST (Router Interface Creation Request)
Body:

     {

             "network": "Interface Network",

             "owner": "Workspace Name",

             "router": "Router Name",

             "ip": "10.10.10.1/24"

     }

URL: \<IP\>:\<Port\>/interfaces/

Method:

- DELETE (Router Interface Deletion Request)

Body:

```
{

        "network": "Interface Network",

        "owner": "User Name",

        "router": "Router Name"

}
```

URL: \<IP\>:\<Port\>/interfaces/

Methods:

- PUT (Edit Router Interface Information)

Body:

```
{

        "router": "router Name",

        "network": "network name"

        "owner": "Workspace Name",

        "update_dict": {

                        "ip": "20.10.16.254/24"

                        }

}
```

Tasks Requests:

URL: \<IP\>:\<Port\>/tasks/\<workspace\>/

Method:

- GET (retrieves all tasks for a workspace)

URL: <IP>:<Port>/running_tasks/<workspace>/

Method:

    - GET (retrieves running tasks of a workspace)

URL: <IP>:<Port>/finished_tasks/<workspace>/

Method:

    - GET (retrieves finished tasks of a workspace)