# **Simple Target Application**

This is a simple application with necessary common user management functionality. This has been created as a dummy target system for exploring various Identity Management software integration techniques.

# Requirement

```
python 3pippip install flask==1.1.1
```

### How To:

#### **Prepare Application**

Run the following commands to ensure application faces no problem and create a prepopulated database. This is one time operation.

```
$ ./run_tests.sh
$ ./setup_db.py
```

If everything is ok, the output of **run\_tests.sh** should be like below

#### **Start Application**

```
$ ./start_app.sh
```

#### **Start Fresh**

Delete the sqlite3 database under data folder. Afterwards, create database and start application.

```
$ rm data/user_data.db
$ ./setup_db.py
$ ./start_app.sh
```

## **API Documentation**

### Create

**URL:** <a href="http://localhost:5000/api/v1/user/create">http://localhost:5000/api/v1/user/create</a>

Method: POST

**HTTP Response Code:** 201 CREATED

**Attributes:** 

Attribute Name	[M]andatory/[O]ptional
username	М
firstname	0
lastname	М
mobile	0
email	0
empid	0
organization	М
status	0

#### **Sample Request JSON**

```
"username": "usr8",
  "lastname": "lname",
  "organization": "IT"
}
```

### **Sample Response JSON**

```
{
    "id": 8
}
```

# **Update**

**URL:** <a href="http://localhost:5000/api/v1/user/update">http://localhost:5000/api/v1/user/update</a>

Method: PUT

HTTP Response Code: 204 NO CONTENT

**Attributes:** 

Attribute Name	[M]andatory/[O]ptional
id	M
username	0
firstname	0
lastname	0
mobile	0
email	0
empid	0
organization	0

### **Sample Request JSON**

```
{
    "id": 6,
    "firstname": "Json"
}
```

## **Delete**

URL: <a href="http://localhost:5000/api/v1/user/delete">http://localhost:5000/api/v1/user/delete</a>

Method: DELETE

HTTP Response Code: 204 NO CONTENT

**Argument:** id

**Sample Request** 

```
curl --request DELETE 'http://localhost:5000/api/v1/user/delete?id=8'
```

### **Enable**

**URL:** <a href="http://localhost:5000/api/v1/user/enable">http://localhost:5000/api/v1/user/enable</a>

Method: PUT

**HTTP Response Code:** 204 NO CONTENT

Argument: id

**Sample Request** 

```
curl --request PUT 'http://localhost:5000/api/v1/user/enable?id=1'
```

### **Disable**

**URL:** <a href="http://localhost:5000/api/v1/user/disable">http://localhost:5000/api/v1/user/disable</a>

Method: PUT

HTTP Response Code: 204 NO CONTENT

Argument: id

**Sample Request** 

```
curl --request PUT 'http://localhost:5000/api/v1/user/disable?id=1'
```

### Add roles to user

**URL:** <a href="http://localhost:5000/api/v1/user/addroles">http://localhost:5000/api/v1/user/addroles</a>

Method: POST

HTTP Response Code: 201 CREATED

Argument: id

**Sample Request** 

```
curl --request POST 'http://localhost:5000/api/v1/user/addroles?id=1' \
--header 'Content-Type: application/json' \
--data-raw '["R3", "R4"]'
```

Sample Request JSON

```
["R3", "R4"]
```

### Remove roles from user

**URL:** <a href="http://localhost:5000/api/v1/user/removeroles">http://localhost:5000/api/v1/user/removeroles</a>

Method: DELETE

HTTP Response Code: 204 NO CONTENT

**Argument:** id

**Sample Request** 

```
curl --request DELETE 'http://localhost:5000/api/v1/user/removeroles?id=1' \
   --header 'Content-Type: application/json' \
   --data-raw '["R2", "R3", "R4"]'
```

#### Sample Request JSON

```
["R2", "R3", "R4"]
```

### Get user details

URL: http://localhost:5000/api/v1/user/details

Method: GET

HTTP Response Code: 200 OK

Argument: id

**Sample Request** 

```
curl --request GET 'http://localhost:5000/api/v1/user/details?id=1'
```

#### Sample Response JSON

```
"email": "usr1@example.com",
"empid": "0001",
"firstname": "User",
"id": 1,
"last_update": 1585139736563032913,
"lastname": "One",
"mobile": "0123456701",
"organization": "IT",
"roles": "__UNUSED___",
"status": "ACTIVE",
"username": "usr1"
}
```

#### Get user roles

URL: <a href="http://localhost:5000/api/v1/user/details">http://localhost:5000/api/v1/user/details</a>

Method: GET

HTTP Response Code: 200 OK

Argument: id

**Sample Request** 

```
curl --request GET 'http://localhost:5000/api/v1/user/roles?id=1'
```

#### **Sample Response JSON**

```
{
  "id": "1",
  "roles": [
     "R1",
     "R2"
  ]
}
```

## Get user list

URL: <a href="http://localhost:5000/api/v1/user/list">http://localhost:5000/api/v1/user/list</a>

Method: GET

HTTP Response Code: 200 OK

**Sample Request** 

```
curl --request GET 'http://localhost:5000/api/v1/user/list'
```

#### **Sample Response JSON**

```
// user 'id'
[
   1,
   2,
   3,
   4,
   5,
   6,
   7
]
```

# **Get organization list**

URL: <a href="http://localhost:5000/api/v1/org/list">http://localhost:5000/api/v1/org/list</a>

Method: GET

HTTP Response Code: 200 OK

**Sample Request** 

```
curl --request GET 'http://localhost:5000/api/v1/org/list'
```

**Sample Response JSON** 

```
// Org Name: Org ID
{
    "Customer Care": "CC",
    "Finance": "FN",
    "Information Technology": "IT",
    "Marketing": "MK",
    "Sales": "SL"
}
```

## **Get role list**

URL: <a href="http://localhost:5000/api/v1/role/list">http://localhost:5000/api/v1/role/list</a>

Method: GET

HTTP Response Code: 200 OK

**Sample Request** 

```
curl --request GET 'http://localhost:5000/api/v1/role/list'
```

#### **Sample Response JSON**

```
// Role Name: Role ID
{
   "Admin": "R1",
   "Agent": "R3",
   "Developer": "R2",
   "Manager": "R4"
}
```

## **TODO**

```
- API test
- docker control script
```