DOKUMENTASI PERANCANGAN API SISTEM YAVA

Tools :

- NodeJs (bahasa pemrograman)
- ExpressJs (framework)
- PostgreSQL 9.3.24 (database)
- Postman (tester API)

Functions :

- viewCluster
  http://localhost/api/cluster/:cluster_name
  Contoh : http://localhost:3000/api/cluster/cluster002

```
{
    "status": "success",
    "href": "http://localhost:3000/api/clusters/cluster002",
    "Clusters": [
        {
            "cluster_name": "cluster002",
            "version": "version002",
            "cluster_id": "2"
        }
    ],
    "message": "retrieved a cluster"
}
```

- createCluster
  http://localhost/api/cluster
  Contoh : http://localhost:3000/api/cluster

```
{
    "status": "success",
    "message": "retrieved add a cluster"
}
```

- editCluster
  http://localhost/api/cluster/:cluster_id
  Contoh : http://localhost:3000/api/cluster/2

```
{
    "status": "success",
    "message": "edit success"
}
```

- deleteCluster
  http://localhost/api/cluster/:cluster_id
  Contoh : http://localhost:3000/api/cluster/2

```
{
    "status": "success",
    "message": "delete success"
}
```

- stackCluster
  http://localhost/api/cluster/stack/:stack
  Contoh : http://localhost:3000/api/cluster/stack/HDP

```
{
    "status": "success",
    "href": "http://localhost:3000/api/cluster/stack/HDP",
    "ClustersStackVersion": [
        {
            "cluster_name": "YAVA",
            "id": "1",
            "repository_ver": "1",
            "stack": "HDP",
            "stack_ver": "2.2"
        },
        {
            "cluster_name": "cluster3",
            "id": "1",
            "repository_ver": "1",
            "stack": "HDP",
            "stack_ver": "2.2"
        },
        {
            "cluster_name": "cluster2",
            "id": "1",
            "repository_ver": "1",
            "stack": "HDP",
            "stack_ver": "2.2"
        }
    ],
    "message": "retrieved a stack cluster"
}
```

- stackHost

  http://localhost/api/host/stack/:stack

  Contoh : http://localhost:3000/api/host/stack/HDP

```
{
    "status": "success",
    "href": "http://localhost:3000/api/host/stack/HDP",
    "HostStackVersion": [
        {
            "host_name": "host1",
            "id": "1",
            "repository_ver": "1",
            "stack": "HDP",
            "stack_ver": "2.2"
        },
        {
            "host_name": "host2",
            "id": "1",
            "repository_ver": "1",
            "stack": "HDP",
            "stack_ver": "2.2"
        },
        {
            "host_name": "host3",
            "id": "1",
            "repository_ver": "1",
            "stack": "HDP",
            "stack_ver": "2.2"
        }
    ],
    "message": "retrieved a stack host"
}
```

- getService

  http://localhost/api/service/:service_name

  Contoh : http://localhost:3000/api/service/HDFS

```
{
    "status": "success",
    "href": "http://localhost:3000/api/service/HDFS",
    "ServiceInfo": [
        {
            "cluster_name": "YAVA",
            "service_name": "HDFS",
            "state": "STARTED"
        },
        {
            "cluster_name": "cluster3",
            "service_name": "HDFS",
            "state": "STARTED"
        }
    ],
    "message": "retrieved a service"
}
```

- updateService
  http://localhost/api/service/:service_id
  Contoh : http://localhost:3000/api/service/3

```
{
    "status": "success",
    "message": "update service success"
}
```

- createService
  http://localhost/api/service
  Contoh : http://localhost:3000/api/service

```
{
    "status": "success",
    "message": "retrieved add a service"
}
```

- createHost
  http://localhost/api/host
  Contoh : http://localhost:3000/api/host

```
{
    "status": "success",
    "message": "retrieved add a host"
}
```

- getHost
  http://localhost/api/host/:host_name
  Contoh : http://localhost:3000/api/host/host1

```
{
    "status": "success",
    "href": "http://localhost:3000/api/host/host1",
    "HostInfo": [
        {
            "cluster_name": "YAVA",
            "host_name": "host1"
        }
    ],
    "message": "retrieved a host"
}
```

- listPermission
  http://localhost/api/permission/:permission_id
  Contoh : http://localhost:3000/api/permission/1

```json
{
    "status": "success",
    "href": "http://localhost:3000/api/permission/1",
    "PermissionInfo": [
        {
            "permission_id": "1",
            "permission_name": "AMBARI_ADMINISTRATOR",
            "permission_label": "Ambari Administrator",
            "resource_name": "AMBARI"
        }
    ],
    "message": "retrieved a permission"
}
```

- createPermission
  http://localhost/api/permission
  Contoh : http://localhost:3000/api/permission

```json
{
    "status": "success",
    "message": "retrieved add a permission"
}
```

- updatePermission
  http://localhost/api/permission/:permission_id
  Contoh : http://localhost:3000/api/permission/1

```json
{
    "status": "success",
    "message": "update permission success"
}
```

- deletePermission
  http://localhost/api/permission/:permission_id
  Contoh : http://localhost:3000/api/permission/1

```json
{
    "status": "success",
    "message": "delete permission success"
}
```

- getCpu (mengambil data cpu usage)
  http://localhost/api/cpusage
  Contoh : http://localhost:3000/api/cpusage

```
{
    "cpusage": 0.3411764705882353
}
```

- getDisk (mengambil data diskspace)
  http://localhost/api/diskspace
  Contoh : http://localhost:3000/api/diskspace

```
{
    "total": "107571310592",
    "free": "12774924288",
    "use": 94796386304
}
```