**NOCS API Standard Design**

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| **Change History** | | | |
| No | Author | Date | Description or Purpose |
| 1 | Nasrul A Gifari | 24 Sep 2016 | Initial Document Created |

1. Purpose

API ( Application Programming Interface), is used to serve data from database server with specified format that can be understand by Another Application.

With an API the data can be used by widely application easily across platform, such as Desktop,Web or Mobile. It can ease our next phase of development.

1. Standard Feature

All request should be secured by Token System. Add-On Library or Own Library

1. Standard Request
   1. GET Single Object ( Get )
   2. GET List Object ( Find)
   3. POST New Object (Insert)
   4. PUT an Object (Update)
   5. DELETE an Object (Delete)
2. API Token

Token is used to authenticate the request. Only authenticated request only that are allowed to access the API data.

Token V1, will be created by combination of encoded User ID and CI Session.

For the future version we will be used existing JWT Library for this purpose.

1. API Processing Standard
   1. User do Request
   2. System Check The Token
   3. If The Token has Failed System Return “Request has not been Authenticated”
   4. Else Return the data with format as below :

{

List : (array of data or single object),

Count : (total count of the data),

Session : {

user\_id : (id of authenticated requester),

name : (name of requester),

last\_login : (last login information of requester),

role : {

role\_id : (role id of requester),

role\_name : (role name of requester),

},

menu : {

list\_of\_menu : (array of available menu for this requester)

}

}

}