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| API Name: | Create User |
| Description: | This api used to create user. |
| Method: | POST |
| Path: | localhost:8080/api/v1/users |
| Input: | Json format data, just like below:  {  “userName”: “Jason”,  “userPassword”: “abcd1234”  } |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Create successfully”,  “data”: null  } |

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| API Name: | Delete User |
| Description: | This api used to delete user. |
| Method: | DELETE |
| Path: | localhost:8080/api/v1/users/{userName} |
| Input: | Path variable:  userName: The user name that you want to delete |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Delete successfully”,  “data”: null  } |

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| API Name: | Create Role |
| Description: | This api used to create role. |
| Method: | POST |
| Path: | localhost:8080/api/v1/roles |
| Input: | Json format data, just like below:  {  “roleName”: “Admin”  } |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Create successfully”,  “data”: null  } |

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| API Name: | Delete Role |
| Description: | This api used to delete role. |
| Method: | DELETE |
| Path: | localhost:8080/api/v1/roles/{roleName} |
| Input: | Path variable:  roleName: The role name that you want to delete |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Delete successfully”,  “data”: null  } |

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| API Name: | Add Role To User |
| Description: | This api used to add role to user. |
| Method: | PUT |
| Path: | localhost:8080/api/v1/users/{userName}/{roleName} |
| Input: | Path variable:  userName: The user name that you want to add role to  roleName: The role name that you want to add to user |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Add role to user successfully”,  “data”: null  } |

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| API Name: | Authenticate |
| Description: | This api used to get the auth key. |
| Method: | POST |
| Path: | localhost:8080/api/v1/auth |
| Input: | Json format data, just like below:  {  “username”: “Jason”,  “userPassword”: “abcd1234”  } |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Your authKey is XXXXX, will be expired on XXXXX”,  “data”: [ {Authkey} ]  } |

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| API Name: | Invalidate |
| Description: | This api used to invalidate one authkey. |
| Method: | DELETE |
| Path: | localhost:8080/api/v1/auth/{authKey} |
| Input: | Path variable:  authKey: The authKey that you want to invalidate. |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Your authKey have been invalidate”,  “date”: null  } |

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| API Name: | Check Role |
| Description: | This api used to check target user got one role or not |
| Method: | GET |
| Path: | localhost:8080/api/v1/auth/{authKey}/{roleName} |
| Input: | Path variable:  authKey: The authKey that you want to check  roleName: The roleName that you want to check |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Your got {roleName}/Your don’t get {roleName}”,  “data”: [“True”/ “False”/ “Error”]  } |

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| API Name: | All Roles |
| Description: | This api used to get the all role of target user |
| Method: | GET |
| Path: | localhost:8080/api/v1/auth/{authKey} |
| Input: | Path variable:  authKey: The authKey that you want to check |
| Output: | Json format data, just like below:  {  “status”: “Success”,  “msg”: “Here are your all roles”,  “data”: [“Admin”,“Tester”,“Developer”]  } |