Enterprise User Management Design

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Revision History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SI.NO** | **Version** | **Date** | **Author** | **Amendments** |
| 1 | 0.0a | 26-Apr-2016 | Arun Kumar V G | Draft version |
| 2 | 0.1 | 23-May-2016 | Arun Kumar V G | Draft version |
| 3 | 0.2 | 03-June-2016 | Arun Kumar V G | Draft version |
| 4 | 1.1 | 07-June-2016 | Arun Kumar V G | Release Version |
| 5 | 1.3 | 17-June-2016 | Arun Kumar V G | Release Version |
| 6 | 1.4 | 21-June-2016 | Arun Kumar V G | Release Version |

# Introduction

## Purpose

This document covers the Enterprise User Management application design aspects.

## Scope

This caters to the high level information so as to meet the objective of making the Enterprise User Management.

## Acronyms

|  |  |
| --- | --- |
| EUM | Enterprise User Management |
| LEO | Law Enforcement Officer |
| AM | Asst. Manager |

## References

# Block diagram for User Management

## High level Design for Enterprise User Management

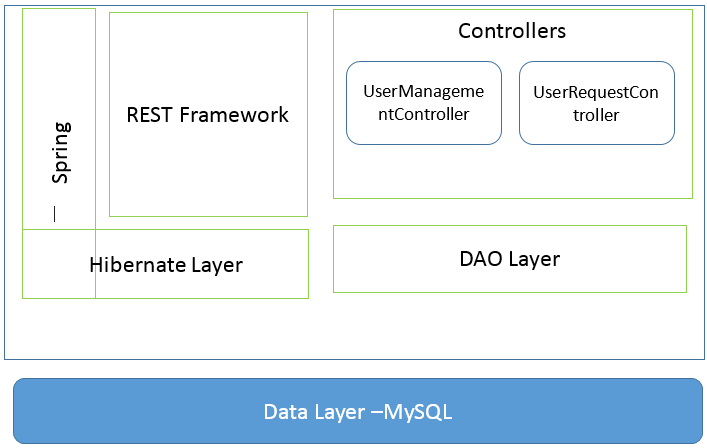


Figure: Block Diagram for Enterprise User Management

## Enterprise User Login Management

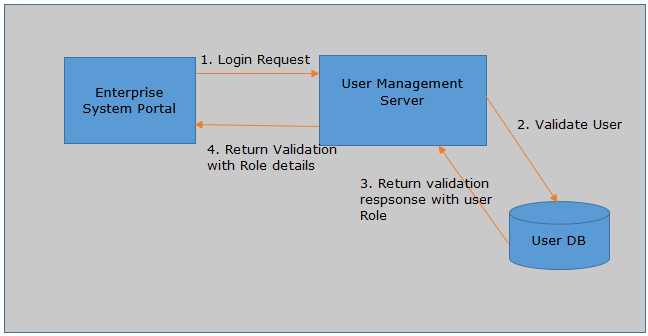


Figure: Block Diagram for Enterprise User Login Management

## Enterprise Schema Diagram

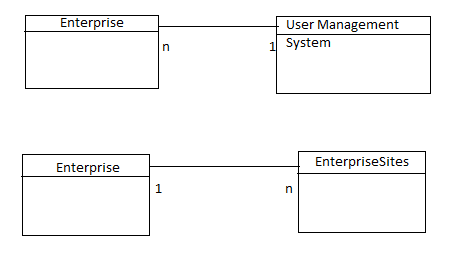


Figure A: Enterprise User Management System.

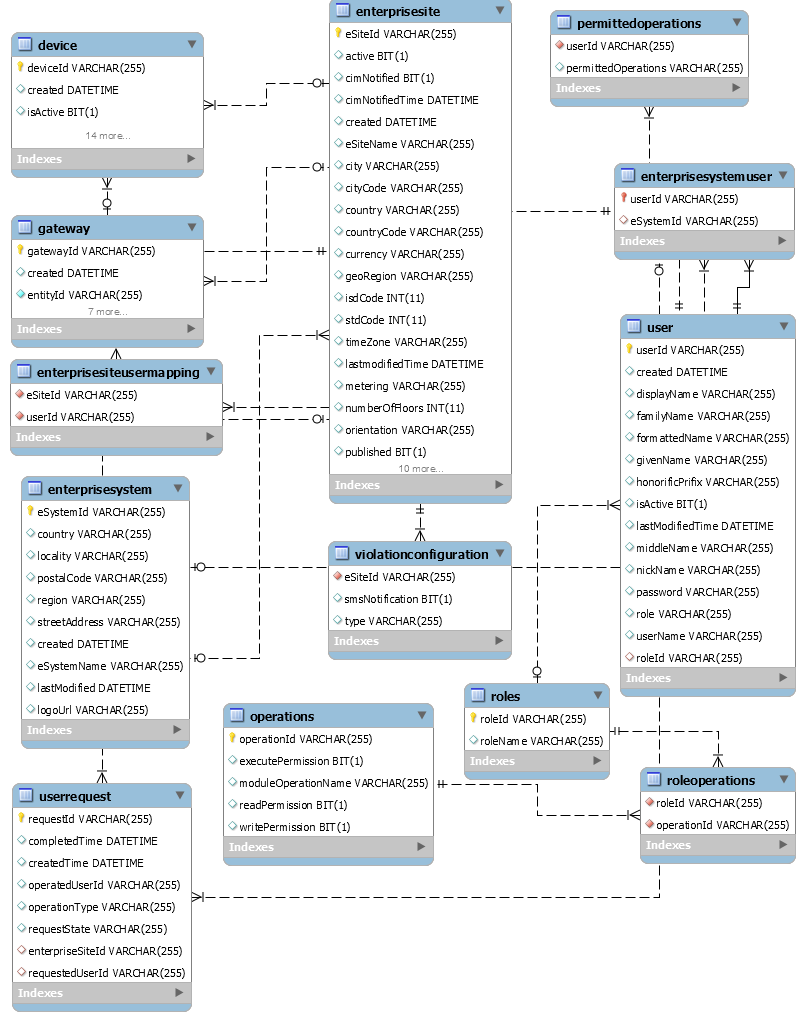


Figure B: User Management with User Request Handling Schema

## Multitenant Enterprise User Management Architecture

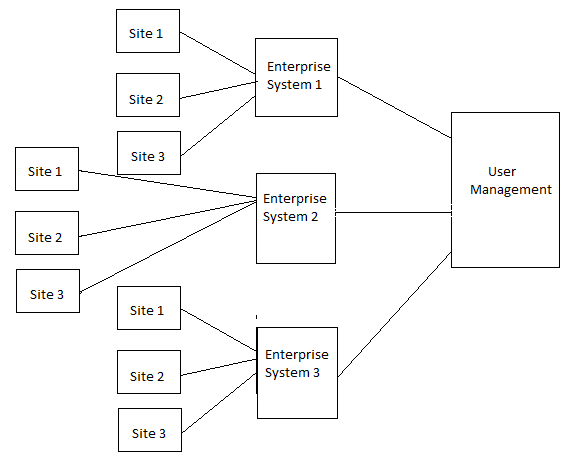


Figure: Multitenant Architecture of Enterprise User Management

# Enterprise User Management Overview

Enterprise User management consists of broad level of operations and management. Below are the design assumptions made.

* User will be basically associated with one Enterprise. So User cannot belong to more than one Enterprise.
* User can be associated with many Enterprise Sites. Same User can look after the activities of more than one Enterprise Sites.
* Each User has associated with one Role. As of now it cannot be changed.
* User can be Enterprise Super Admin, Enterprise Field Support Admin, Enterprise Site Super Admin, Enterprise Advanced User, Enterprise Scheduled User, Enterprise Site User, Enterprise Manager, Enterprise Asst. Manager or Law Enforcement Officer. These are the different roles as of now.
* Each Role has n number of operations that he can perform.
* Enterprise Super Admin is responsible managing entire Enterprise System. He is the owner of the Enterprise System.
* Each Manager can be associated with one or more Enterprise Sites.
* Each Asst. Manager can only be associated with one Enterprise Sites only.
* Each Law Enforcement Officer can be associated with many Enterprise Sites.
* Law Enforcement Manager is responsible to enforce the Enterprise Sites rules and regulations.
* Each operation has 4 levels of access with view, read and full permissions.
* Create – Create the and manipulates Enterprise System date
* Read - Read Only Mode on UI
* Update – Update the existing resources
* Delete- Delete the resources

## Enterprise User Management Mappings

User Management Mapping consists of below mappings

* Users
* Roles
* Operations
* User Requests
* Enterprise System
* Enterprise Sites
* Mapping between Users and Roles
* Mapping between Roles and Operations
* Mapping between Users and Enterprise
* Mapping between Users and Enterprise Sites
* Mapping between Enterprise System and Enterprise Sites
* Mapping between Enterprise System and User Requests
* Mapping between User and User Requests

## Operations

Operations in the Enterprise User Management System are defined as below.

### Sites

This Operation is to manage Enterprise Sites, has Different level of access like Create, Read, Update and Delete Operations. The Assigned user will be able to access with these CRUD operations. Enterprise Super Admin will have the full access to the system, and will responsible for updating the Site Information.

### Site Status

This Operation is to manage Enterprise Sites Status and has Different level of access like Create, Read, Update and Delete Operations. Enterprise Super Admin and Field Admin will have the full access to the system, and will responsible for updating the Site Status Information.

### Authentication Source

This Operation is to update and retrieve the Authentication Source information and has Different level of access like Create, Read, Update and Delete Operations. The Enterprise Super Admin will be able to access with perform CRUD operations.

### Site Advanced Users

This Operation is to manage Enterprise Sites Status and has Different level of access like Create, Read, Update and Delete Operations. The Assigned user will be able to access with these CRUD operations. The Enterprise Super Admin and Enterprise Field Admin will able to modify the Site Advanced user’s information.

### Site Scheduled

This Operation is to manage Enterprise Sites Scheduled activities and has Different level of access like Create, Read, Update and Delete Operations. The Assigned user will be able to access with these CRUD operations. All the admin and managers will be able to manipulated these operations

### Site Users

This Operation is to manage Enterprise Sites Users Information and has Different level of access like Create, Read, Update and Delete Operations. The Enterprise Super admin and Enterprise Field Admin will be able to access with to do these CRUD operations.

### Zones

This Operation is to manage Enterprise Zone Status and has Different level of access like Create, Read, Update and Delete Operations. The Enterprise Super admin, Field Admin will be able to access and to do these CRUD operations.

### Places

This Operation is to manage Enterprise Sites Places and has Different level of access like Create, Read, Update and Delete Operations. The Enterprise Super admin, Field Admin will be able to access and to do these CRUD operations

### PINs

This Operation is to manage Enterprise Sites PINs Information and has Different level of access like Create, Read, Update and Delete Operations. All the Admins are having access to modify the information.

### Schedules

This Operation is to Schedules activities belongs to an Enterprise Site and has Different level of access like Create, Read, Update and Delete Operations. All the Admins are having access to modify the information.

### Override

This Operation is to update or Override Enterprise Sites all the field information and has Different level of access like Create, Read, Update and Delete Operations. The Assigned user will be able to access with these CRUD operations. All the Admins are having access to modify the information.

### Super Admins

This Operation is to role to update Enterprise system Super Admin Roles and permissions. It has Different level of access like Create, Read, Update and Delete Operations. The Assigned user will be able to access with these CRUD operations. The Enterprise Super admin will be having full access to the system.

### Site Super Admins

This Operation is to update Enterprise Site Super Admin Roles and permissions. It has Different level of access like Create, Read, Update and Delete Operations. The Enterprise Super admin will be having full access to the system.

## Roles

The Roles of the Enterprise System are defined as below.

### Enterprise Super Admin

The Enterprise Super Admin will be First and Super level Access to the Enterprise User Management System.

* Super Admin can manage one Enterprise Systems.
* Super Admin can manage any number of Enterprise Sites.
* Super Admin will be having the supreme access to the all the operations and management.
* Super Admin will be having permissions to handle all the user requests.
* Super Admin can cancel and create the Enterprise systems.

### Enterprise Field Support Admin

The Enterprise Filed Support Admin will be having the Second level and Super level Access to the Enterprise site Management System.

* Support Admin is responsible for handling all the Sites.
* Support Admin is having the Full access to the Enterprise Systems.
* Support Admin is responsible for handling the activities related schedules, sites, Site Status, and user management.

### Enterprise Site Super Admin

The Enterprise Site Super Admin will be having the Supreme access at the Enterprise Site level.

* Site Super Admin is responsible for handling one enterprise site.
* Site Super Admin should be able to raise the requests to Enterprise Site Management.
* Site Super Admin is responsible for handling the activities related schedules, sites, Site Status, and user management.

### Enterprise Site Advanced User

The Enterprise Site Super Admin will be having the Second level access to the Enterprise Sites.

* Site Advanced User responsible for handling one enterprise site.
* Site Advanced User should be able to raise the requests to Enterprise Site Management.
* Site Advanced user is responsible for handling the activities related schedules, sites, Site Status, zones, Places, Pins and user management.

### Enterprise Site Scheduled User

The Enterprise Site Super Admin will be having the operator level access at the Enterprise Site.

* Scheduled User should be able to manage the Scenes, Schedules and Override information.
* Scheduled User will be managing only one enterprise system.

### Enterprise Site User

The Enterprise Site User will have the last level of access to Enterprise sites. The enterprise site can manage any only of Enterprise System.

* Site user can manage more than only one Enterprise site.
* Site user will having read only access all the operations in the system.
* Site user does not have any update related operations.

### Enterprise Manager

The Enterprise Manager is second level super user for Enterprise Systems. The enterprise manager can manage any only of Enterprise System.

* Manager can manage more than one Enterprise sites.
* Manager is Responsible for raising user requests.
* Manager Handles entire Enterprise site management.

### Enterprise Assistant Manager

The Enterprise Assistant Manager is Third level super user for Enterprise Systems.

* Asst. Manager Responsible for handling Enterprise site operations such as, Inventory, Dashboard, configuration, violations, Live view.
* Asst. Manager can only be associated with one Enterprise site.

### Law Enforcement Officer(LEO)

The Law Enforcement Officer is part of Advisory committee. LEO will be monitoring all the Site activities, Violations and other monitoring aspects.

* Law Enforcement Officer Responsible for forcing rules and regulation for the Enterprise sites, and Enterprise system.
* LEO can manage any number of Enterprise Sites which belong to one system.
* LEO can be only associated to one Enterprise System.
* LEO can be associated with many Enterprise sites.
* LEO is able to access the violations, Reports, Live view and Dashboard

## Roles and operations Diagram

Below Diagrams specifies the permissions assigned to an individual role.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Permission/UserType | Enterprise  Admin | Enterprise Field Support Admin | Site Super Admin | Site  Advanced User | Site Scheduled User |
| Sites | CRUD | CRUD |  |  |  |
| Site Status | RU | RU |  |  |  |
| Authentication Source | CRUD |  |  |  |  |
| Super Admins | CRUD |  |  |  |  |
| Site Super Admin | CRUD | CRUD | CRUD |  |  |
| Site Advanced users | CRUD | CRUD | CRUD | CRUD |  |
| Site Scheduled | CRUD | CRUD | CRUD | CRUD |  |
| Site Users | CRUD | CRUD | CRUD | CRUD |  |
| Zones | CRUD | CRUD | RU | RU |  |
| Places | CRUD | CRUD | RU | RU |  |
| PINs | CRUD | CRUD | RU | RU |  |
| Schedules | CRUD | CRUD | RU | RU | RU |
| Scenes | CRUD | CRUD | CRUD | CRUD | CRUD |
| Override | CRUD | CRUD | CRUD | CRUD | CRUD |

Figure 1. A. Roles and Operations Assigned to User

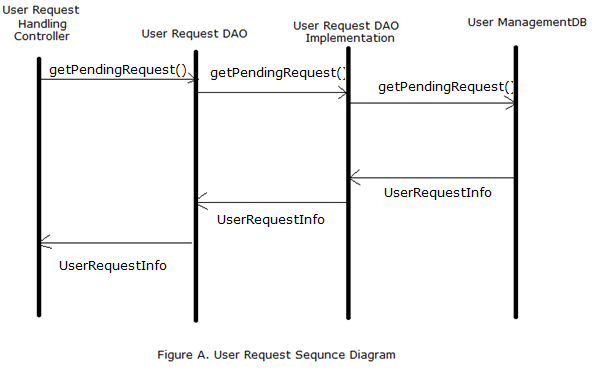
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Permission/UserType | Site User | Manager | Assistant Manager | Law Enforcement Officer |
| Sites |  |  |  |  |
| Site Status |  |  |  |  |
| Authentication Source |  |  |  |  |
| Super Admins |  |  |  |  |
| Site Super Admin |  |  |  |  |
| Site Advanced users |  |  |  |  |
| Site Scheduled |  |  |  |  |
| Site Users |  | RU | RU | RU |
| Zones |  | RU | RU | RU |
| Places |  |  | RU | RU |
| PINs |  | RU | RU | RU |
| Schedules |  | RU | RU | RU |
| Scenes |  | RU | RU | RU |
| Override | CRUD | CRUD | CRUD | CRUD |

Figure 1. B. Roles and Operations Assigned to User

# Sequence Diagram

## User Request Management

This below diagram talks about the Basic flow of User Request Handling flow.

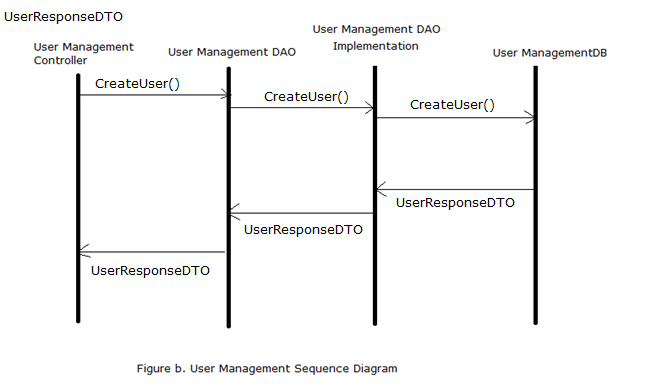


Steps:

1. User Request Controller invokes the DAO methods of User Request DAO.
2. User Request DAO methods queries to the Database.
3. The Model object from the DB will be will retrieved as a part of response.
4. The Controller will render it as Json response.

## User Management

This below diagram talks about the Basic flow of User management flow.

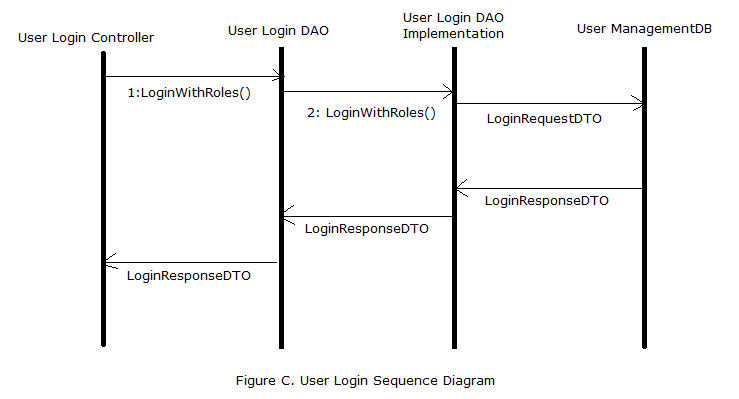


Steps:

1. User Management Controller invokes the DAO methods of User Management DAO.
2. User Management DAO methods queries to the Database.
3. The Model object from the DB will be will retrieved as a part of response.
4. The Controller will render it as Json response.

## Login Management

This below diagram talks about the Basic flow of User Login management flow.

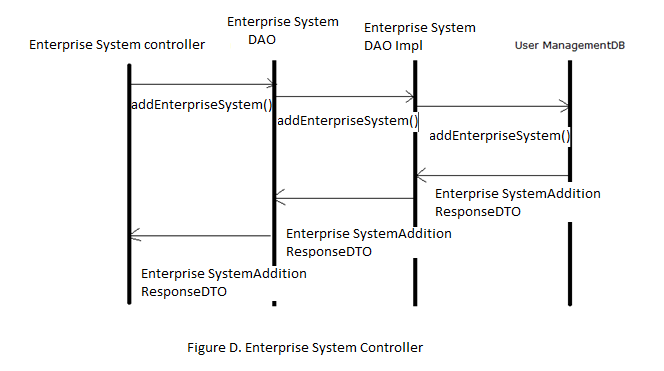


Steps:

1. User Login Controller invokes the DAO methods of User Login DAO.
2. User Login DAO methods queries to the Database, to validate the user name and password.
3. The Model object from the DB will be will retrieved as a part of response.
4. The Controller will render it as Json response.

## Enterprise System Management

This below diagram talks about the Basic flow of Enterprise System management flow.



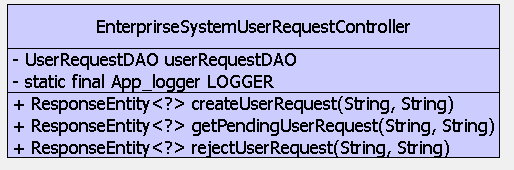
Steps:

1. Enterprise System Controller invokes the DAO methods of Enterprise System DAO.
2. Enterprise System DAO methods queries to the Database, to add the the enterprise system to the database.
3. In the Database the Enterprise system information will be persisted.
4. The Model object from the DB will be will retrieved as a part of response.
5. The Controller will render it as Json response.

# Class Diagrams

## Controllers:

### EnterpriseSystemUserRequestController



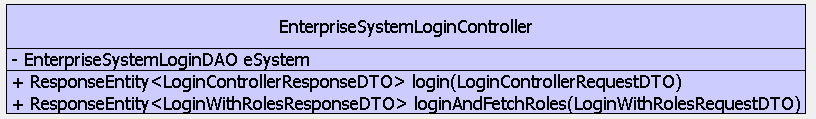
Methods:

1.public ResponseEntity<?> createUserRequest()

2.public ResponseEntity<?> deleteUserRequest()

3.public ResponseEntity<?> getPendingUserRequest()

### EnterpriseSystemLoginController

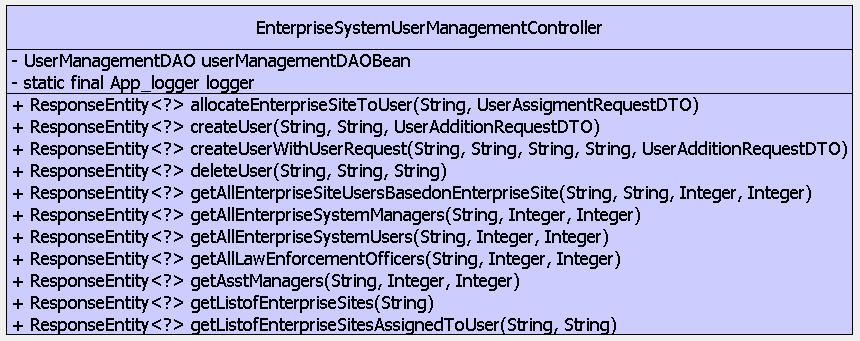


Methods:

public ResponseEntity<LoginControllerResponseDTO> login()

public ResponseEntity<LoginWithRolesResponseDTO> loginAndFetchRoles()

### EnterpriseSystemUserManagementController



Methods:

Public ResponseEntity<?> getAllEnterpriseSystemUsers()

public ResponseEntity<?> getAllEnterpriseSystemManagers()

public ResponseEntity<?> createUser()

public ResponseEntity<?> createUserWithUserRequest()

public ResponseEntity<?> deleteUser()

public ResponseEntity<?> getAllLawEnforcementOfficers()

public ResponseEntity<?> getAllEnterpriseSiteUsersBasedonEnterpriseSite()

public ResponseEntity<?> allocateEnterpriseSiteToUser()

public ResponseEntity<?> getListofEnterpriseSites()

public ResponseEntity<?> getAsstManagers()

public ResponseEntity<?> getListofEnterpriseSitesAssignedToUser()

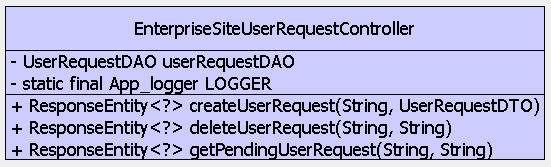
### EnterpriseSiteLoginController



Methods:

public ResponseEntity<?> login()

### EnterpriseSiteUserRequestController



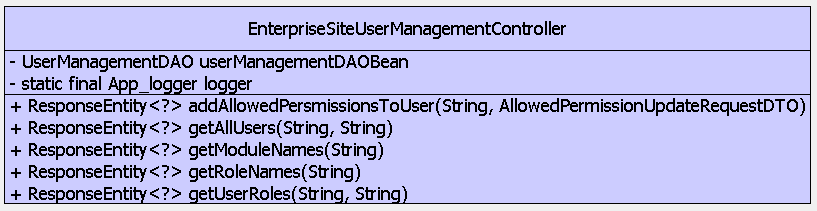
Methods:

public ResponseEntity<?> createUserRequest()

public ResponseEntity<?> deleteUserRequest()

public ResponseEntity<?> getPendingUserRequest()

### EnterpriseSiteUserMangementController



Methods:

public ResponseEntity<?> getUserRoles()

public ResponseEntity<?> addAllowedPersmissionsToUser()

public ResponseEntity<?> getAllUsers()

public ResponseEntity<?> getModuleNames()

public ResponseEntity<?> getRoleNames()

## DAO Interfaces:

### Enterprise System Login DAO

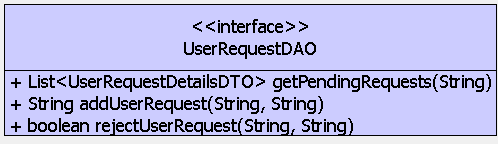


Abstract Methods:

Public LoginControllerResponseDTO login(LoginControllerRequestDTO requestDTO)

public LoginWithRolesResponseDTO loginWithRolesResponse(LoginWithRolesRequestDTO requestDTO)

### Enterprise System User Request DAO



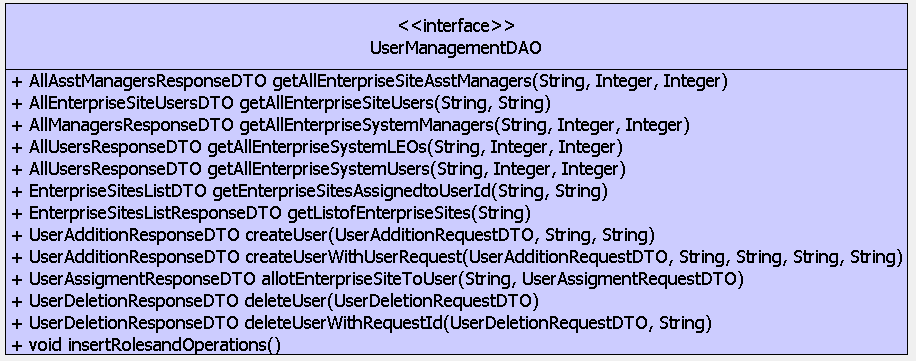
Abstract Methods:

public boolean rejectUserRequest(String systemId, String requestId) throws InvalidInputException

public List<UserRequestDetailsDTO> getPendingRequests(String enterpriseSystemId) throws InvalidInputException

public String addUserRequest(String enterpriseSystemId,String enterpriseSiteId) throws InvalidInputException

### Enterprise System User Management DAO



Abstract Methods:

public void insertRolesandOperations()

public UserDeletionResponseDTO deleteUser(UserDeletionRequestDTO dto) throws UserNotFoundException, InvalidInputException

public UserDeletionResponseDTO deleteUserWithRequestId(UserDeletionRequestDTO dto, String userRequestId) throws UserNotFoundException

public AllUsersResponseDTO getAllEnterpriseSystemLEOs(String enterpriseSystemId, Integer offset, Integer limit) throws InvalidInputException;

public AllAsstManagersResponseDTO getAllEnterpriseSiteAsstManagers(String enterpriseSystemId,Integer offset, Integer limit) throws InvalidInputException;

public AllEnterpriseSiteUsersDTO getAllEnterpriseSiteUsers(String enterpriseSiteId, String enterpriseSystemId) throws InvalidInputException;

public UserAssigmentResponseDTO allotEnterpriseSiteToUser(String systemId,UserAssigmentRequestDTO dto) throws InvalidInputException;

public EnterpriseSitesListResponseDTO getListofEnterpriseSites(String enterpriseSystemId) throws InvalidInputException;

public UserAdditionResponseDTO createUserWithUserRequest(UserAdditionRequestDTO requestDTO, String enterpriseSystemId, String enterpriseSiteId,String userRequestId, String adminId) throws UserAlreadyAvailableException, InvalidInputException;

public EnterpriseSitesListDTO getEnterpriseSitesAssignedtoUserId(String enterpriseSystemId,String userId)throws InvalidInputException, UserNotFoundException;

public UserAdditionResponseDTO createUser(UserAdditionRequestDTO requestDTO, String enterpriseSystemId, String adminId)throws UserAlreadyAvailableException, InvalidInputException;

public AllUsersResponseDTO getAllEnterpriseSystemUsers(String enterpriseSystemId, Integer offset, Integer limit)throws InvalidInputException;

public AllManagersResponseDTO getAllEnterpriseSystemManagers(String enterpriseSystemId, Integer offset, Integer limit)throws InvalidInputException;

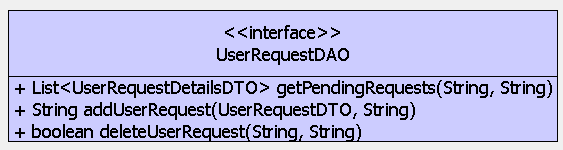
### Enterprise Site Login DAO



Abstract Methods:

public LoginSuccessDTO login(LoginCredentialsDTO requestDTO) throws InvalidInputException, EnterpriseSiteNotActiveException

### Enterprise Site User Request DAO



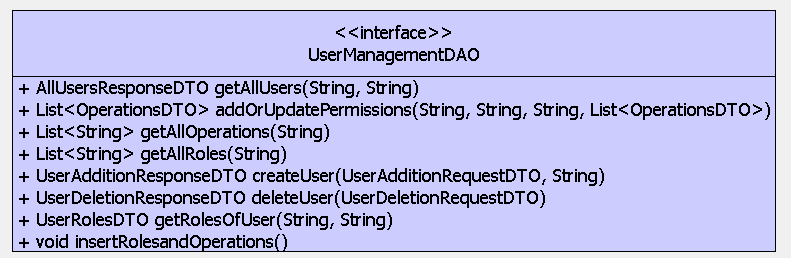
Abstract Methods:

public boolean rejectUserRequest(String SystemId, String requestId) throws InvalidInputException

public List<UserRequestDetailsDTO> getPendingRequests(String enterpriseSystemId) throws InvalidInputException

public String addUserRequest(String enterpriseSystemId,String enterpriseSiteId) throws InvalidInputException

### Enterprise Site User Management DAO



Abstract Methods:

public void insertRolesandOperations()

public List<String> getAllRoles(String enterpriseSiteId)

public List<String> getAllOperations(String enterpriseSiteId )

public UserAdditionResponseDTO createUser(UserAdditionRequestDTO requestDTO,

String enterpriseSiteId)

public UserDeletionResponseDTO deleteUser(UserDeletionRequestDTO dto)

public List<OperationsDTO> addOrUpdatePermissions(String enterpriseId,String userId, String adminUserId,

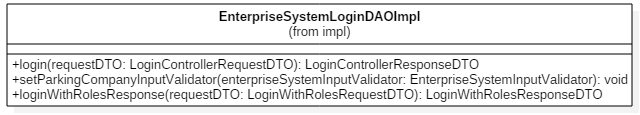
List<OperationsDTO> allowedPermissions)

public AllUsersResponseDTO getAllUsers(String enterpriseSiteId, String adminUserId)

public UserRolesDTO getRolesOfUser(String userId, String siteId)

## DAO Implementations:

### Enterprise System Login DAO Impl



Methods:

Public LoginControllerResponseDTO login(LoginControllerRequestDTO requestDTO)

public LoginWithRolesResponseDTO loginWithRolesResponse(LoginWithRolesRequestDTO requestDTO)

### Enterprise System User Management DAO Impl



Methods:

public void insertRolesandOperations()

public UserDeletionResponseDTO deleteUser(UserDeletionRequestDTO dto) throws UserNotFoundException, InvalidInputException

public UserDeletionResponseDTO deleteUserWithRequestId(UserDeletionRequestDTO dto, String userRequestId) throws UserNotFoundException

public AllUsersResponseDTO getAllEnterpriseSystemLEOs(String enterpriseSystemId, Integer offset, Integer limit) throws InvalidInputException;

public AllAsstManagersResponseDTO getAllEnterpriseSiteAsstManagers(String enterpriseSystemId,Integer offset, Integer limit) throws InvalidInputException;

public AllEnterpriseSiteUsersDTO getAllEnterpriseSiteUsers(String enterpriseSiteId, String enterpriseSystemId) throws InvalidInputException;

public UserAssigmentResponseDTO allotEnterpriseSiteToUser(String systemId,UserAssigmentRequestDTO dto) throws InvalidInputException;

public EnterpriseSitesListResponseDTO getListofEnterpriseSites(String enterpriseSystemId) throws InvalidInputException;

public UserAdditionResponseDTO createUserWithUserRequest(UserAdditionRequestDTO requestDTO, String enterpriseSystemId, String enterpriseSiteId,String userRequestId, String adminId) throws UserAlreadyAvailableException, InvalidInputException;

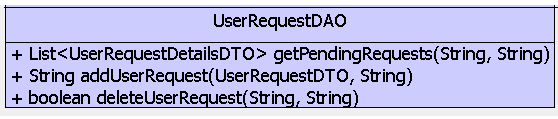
public EnterpriseSitesListDTO getEnterpriseSitesAssignedtoUserId(String enterpriseSystemId,String userId)throws InvalidInputException, UserNotFoundException;

public UserAdditionResponseDTO createUser(UserAdditionRequestDTO requestDTO, String enterpriseSystemId, String adminId)throws UserAlreadyAvailableException, InvalidInputException;

public AllUsersResponseDTO getAllEnterpriseSystemUsers(String enterpriseSystemId, Integer offset, Integer limit)throws InvalidInputException;

public AllManagersResponseDTO getAllEnterpriseSystemManagers(String enterpriseSystemId, Integer offset, Integer limit)throws InvalidInputException

### Enterprise System User Request DAO Impl



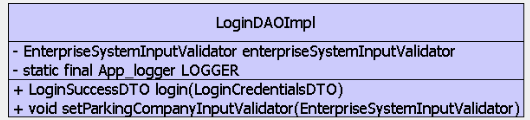
Methods:

public boolean rejectUserRequest(String systemId, String requestId) throws InvalidInputException

public List<UserRequestDetailsDTO> getPendingRequests(String enterpriseSystemId) throws InvalidInputException

public String addUserRequest(String enterpriseSystemId,String enterpriseSiteId) throws InvalidInputException

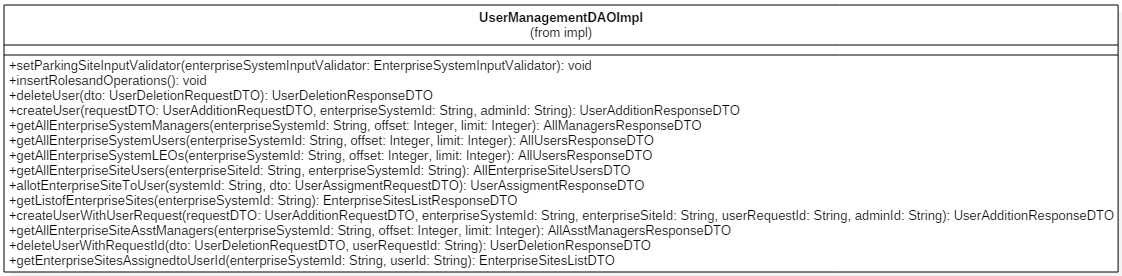
### Enterprise Site Login DAO Impl



Methods:

public LoginSuccessDTO login(LoginCredentialsDTO requestDTO) throws InvalidInputException, EnterpriseSiteNotActiveException

### Enterprise Site User Management DAO Impl



Methods:

public void insertRolesandOperations()

public List<String> getAllRoles(String enterpriseSiteId)

public List<String> getAllOperations(String enterpriseSiteId )

public UserAdditionResponseDTO createUser(UserAdditionRequestDTO requestDTO,

String enterpriseSiteId)

public UserDeletionResponseDTO deleteUser(UserDeletionRequestDTO dto)

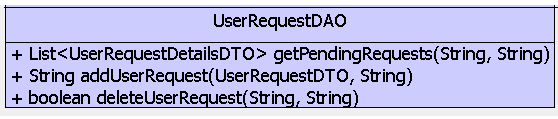
public List<OperationsDTO> addOrUpdatePermissions(String enterpriseId,String userId, String adminUserId,

List<OperationsDTO> allowedPermissions)

public AllUsersResponseDTO getAllUsers(String enterpriseSiteId, String adminUserId)

public UserRolesDTO getRolesOfUser(String userId, String siteId)

### Enterprise Site User Request DAO Impl



Methods:

public boolean rejectUserRequest(String systemId, String requestId) throws InvalidInputException

public List<UserRequestDetailsDTO> getPendingRequests(String enterpriseSystemId) throws InvalidInputException

public String addUserRequest(String enterpriseSystemId,String enterpriseSiteId) throws InvalidInputException