Uma: Smart SRS

Uma - Entities

User, Group, Role, Profile definition

**User:** it represents a registered user. This entity will contain the main information for the authentication phase (username, password). The application will perform all the operation for create, update, delete on the USER entity.

**Role:** it represents the main entity for the authorisation phase. The role will enable the user to perform or not an action and if the user can access to a particular view or not. The application will perform all the operation for create, update, delete on the ROLE entity

**Group:** it represent a set roles. If a user is placed in a group he will inherits all the roles related to that group. The application will perform all the operation for create, update, delete on the GROUP entity

**Profile:** The profile is the relationship between the user and each related group. A profile can be primary o secondary. Can be defined one and only one primary profile. The application will perform all the operation for create, update, delete on the PROFILE entity.

**Service configurations:** The service profile contains the application configuration for the security integration. The administrator can define the default role for the new auto registered user, the configuration for

Entities relationship

**User - Role**: A user can be related to one or more role.

**Role - Group**: A role can be related to one or more group.

**Group - Role**: A group can be related one or more role.

**User - Group**: A user can be related to one or more group.

Uma - Functionalities

User management

* Create: create a new user on database.
* Update: update the user on database.
* Delete: remove a database on database.

Role management

* Create: create a new role on database.
* Update: update the role on database.
* Delete: remove the role on database.

Group management

* Create: create a new group on database.
* Update: update the group composition on database.
* Delete: Remove the group and all the relationship on database.

Profile management

* Create: create the relationship between the User and the group and other Profile properties.
* Update: update the relationship between the User and group and other Profile properties.
* Delete: Remove the profile configuration on database.

Register new user

Web service for user registration. The application under UMA security realm can implements a web page for user registration. When the user submit the registration the application will crate the user with the default role and manages the confirm email registration for the user.