

Topics

- Security in OutSystems
 - Access Control
- Users and Groups
- Roles
 - Checking Permissions



Security

OutSystems takes care of many low-level security matters

- Supports HTTPS and Integrated Authentication
- Prevents code injection on Screens and SQL queries
- Provides fully-integrated exception handling
- And more...

OutSystems cannot determine your **Access Control** requirements



Access Control

Access control determines and enforces who can do what

- Who: Business Users and Roles
- What: Access Screens, trigger Actions, etc.

It comprises **Authentication** ...

- Identify who is accessing the application
- Validate user credentials (e.g. username and password)

... and Authorization

- Check if a user can execute a task
- Validate if user was granted the required permissions



Users

End-users are created and managed in the built-in *Users* application

Default OutSystems end-user provider

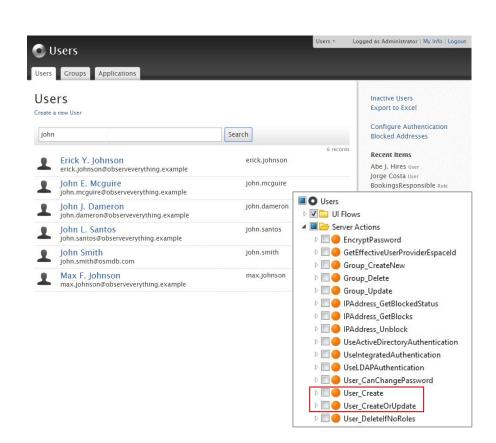
The core information of a user is

- Username
- Password
- Name

Can be created programmatically

Actions from Users module

Authorization is granted via **Roles**





Roles

Anonymous and Registered built-in Roles

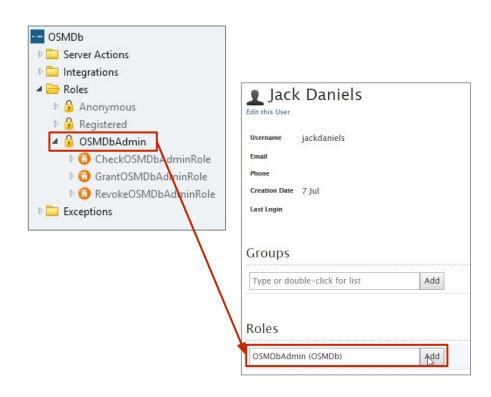
All end-users have the **Registered** Role

Application-specific Roles can be created

- Each Role has Check, Grant and Revoke Actions
- A Role can be set as Public

Authorization can be managed

- Programatically
- Manually in the Users application





Checking Permissions

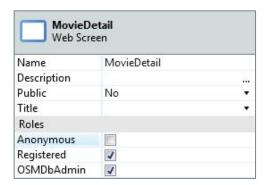
Roles can be checked in Screens and Actions

Screen Roles property

 Enforces a user to have one of the Roles to access the Screen

Check<RoleName>Role(UserId) Action

- Checks if a user has the *RoleName* Role
- Can be used in any Boolean condition
 - Widgets Enable / Display / Visible property
 - If widget on Screens
 - If statement on logic flows







Groups

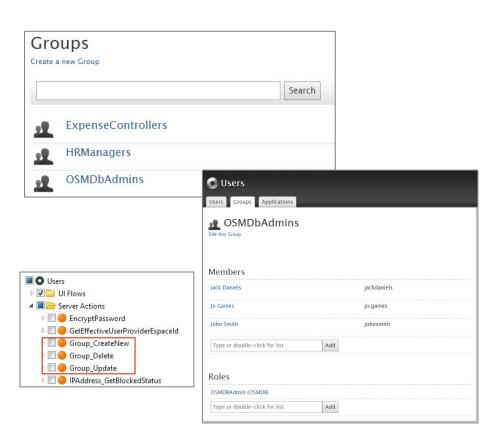
Groups are simply groups of users

Groups can be granted a Role

The Group's Role is granted to all Users in the Group

Groups can be created and managed

- Manually in the *Users* application
- Programmatically with Actions from the Users module





Summary

- Security in OutSystems
 - Access Control
- Users and Groups
- Roles
 - Checking Permissions



