

Web Applications in OutSystems



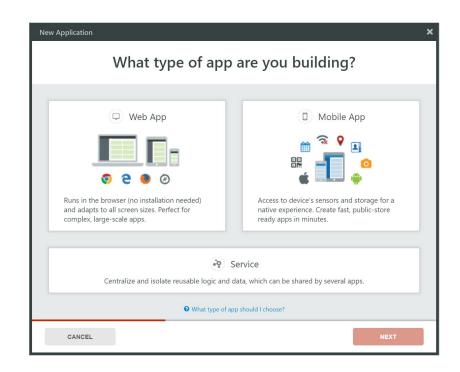
Topics

- Web Applications in OutSystems
 - Creating a web application
 - Application modules
- Modular Programming with OutSystems
 - Consumer and producer modules



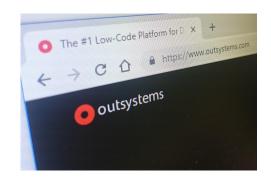
Application types

- Applications can be...
 - Web apps
 - Mobile apps
 - Service apps
- Web apps and Mobile apps have different programming models
- Applications are the deployment unit in OutSystems
 - Apps can be versioned & tagged for easier management





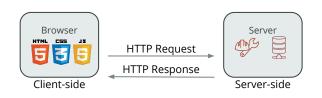
Web Applications in OutSystems



Run in a browser



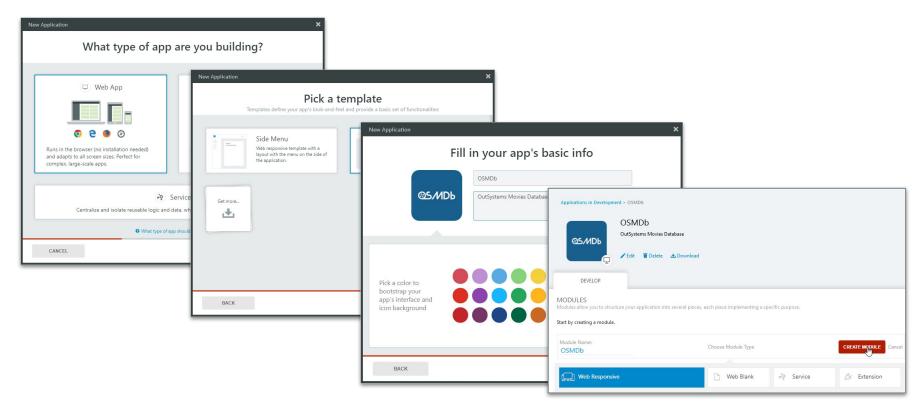
Are Responsive: adjust the layout depending on device type & screen size



Request - Response pattern



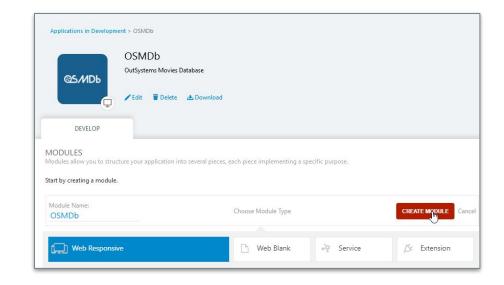
Creating a Web Application





Web Applications: Module types

- Applications should have at least one module
- Web application modules can be:
 - Web Responsive
 - Web Blank
 - Service
 - Extension





Web Applications: Modules

- Applications can have one or more modules
- Modules are where developers:
 - Create the data model
 - Define business logic
 - Build web pages

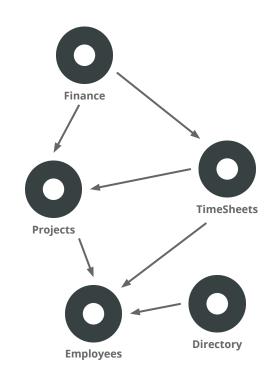




Modular Programming

Software design technique that allows each module to...

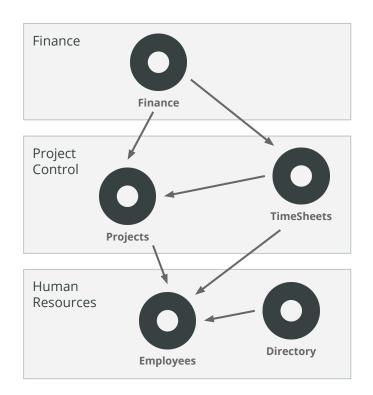
- Encapsulate everything necessary to execute one aspect of functionality
- Separate functionality by independent and (potentially) replaceable pieces of code





Modular Programming in OutSystems

- An Application groups a set of related modules
- Modules can share elements with other modules
 - Producers: Modules that publicly expose and share features
 - **Consumers:** Modules that use public features from other modules
- Producers and Consumers can be in different applications

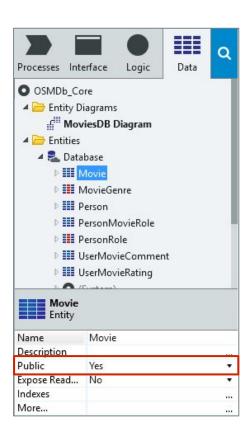




Producer

Publicly exposes and shares features
The following elements can be set to public:

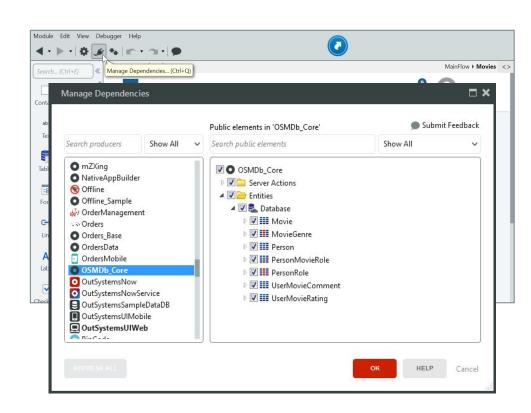
- Data
 - Entities
 - Structures
- Logic
 - Server Actions
 - Roles
- Interface
 - Web Blocks, Web Screens
 - Images
 - Themes
- Processes
 - (Business) Processes





Consumer

- Reuses public elements from producers
- Manage Dependencies
 - Modules with public features are displayed
 - Select the desired elements to be able to use them (consume)
- Elements consumed become available in the module





Summary

- Web Applications in OutSystems
 - Creating a web application
 - Application modules
- Modular Programming with OutSystems
 - Consumer and producer modules



