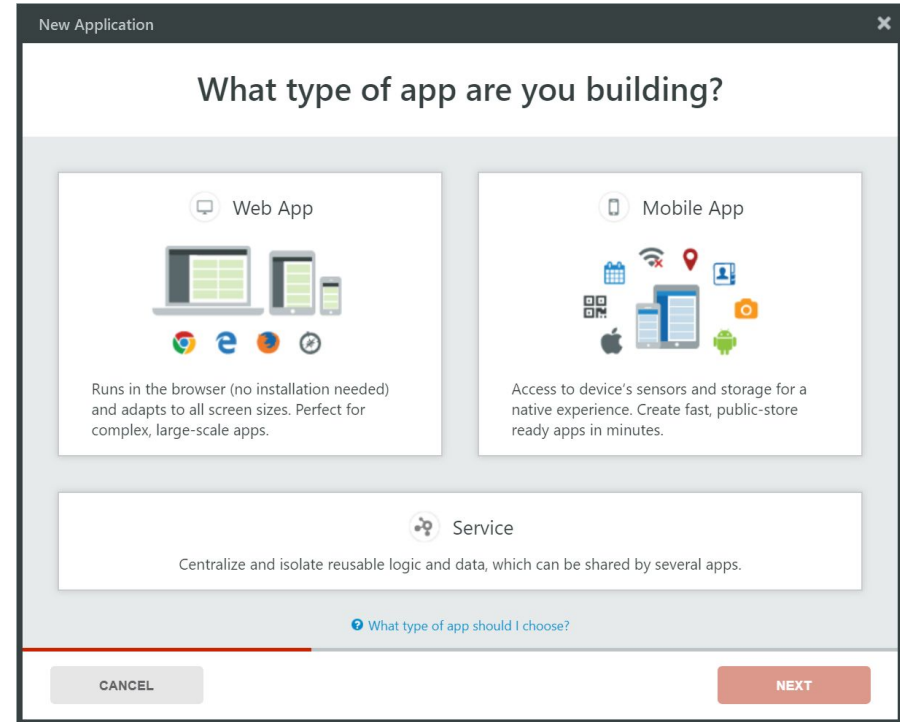outsystems

Mobile Applications in OutSystems

Topics

- Mobile Applications in OutSystems
  - Creating a mobile application
  - Application modules

- Modular Programming with OutSystems
  - Consumer and producer modules

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Applications types in OutSystems

- Applications can be
  - Web App
  - Mobile App
  - Service

- Web and Mobile applications follow different programming models

- Applications are the deployment unit in OutSystems platform
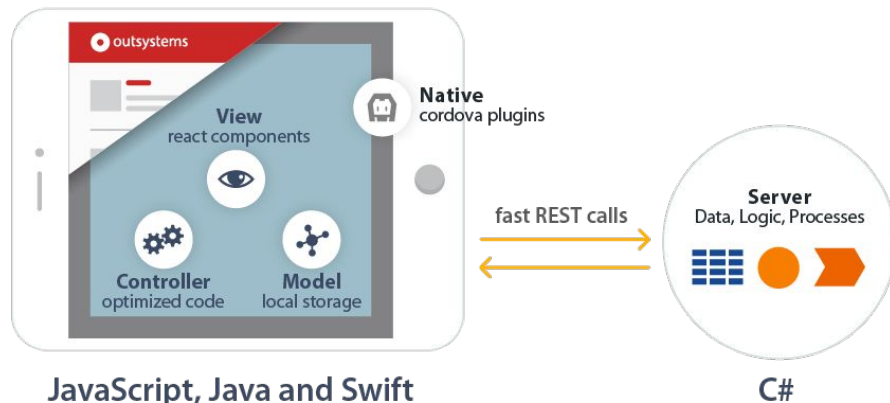 - Can be versioned and tagged for easier management

New Application

What type of app are you building?

Web App

Runs in the browser (no installation needed) and adapts to all screen sizes. Perfect for complex, large-scale apps.

Mobile App

Access to device's sensors and storage for a native experience. Create fast, public-store ready apps in minutes.

Service

Centralize and isolate reusable logic and data, which can be shared by several apps.

What type of app should I choose?

CANCEL   NEXT

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Mobile apps in OutSystems

Run on Android and iOS devices

Single Page Applications (SPAs)

Cross-Platform, Standards-Based

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**View**
react components

Native
cordova plugins

Controller
optimized code

Model
local storage

fast REST calls

Server
Data, Logic, Processes

JavaScript, Java and Swift

C#

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# Creating a Mobile Application

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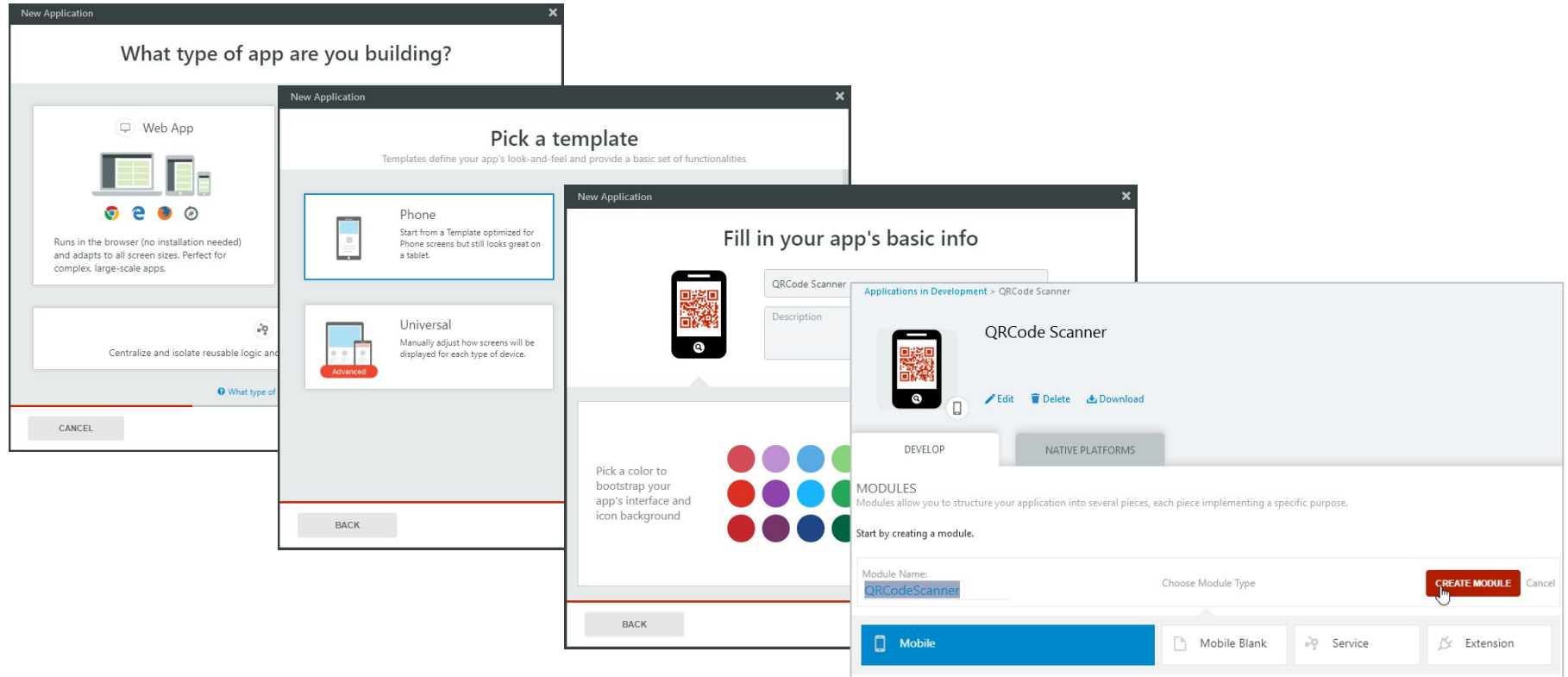
Mobile Applications

- Applications should have at least one modules

- Mobile application modules can be:
  - Mobile
  - Mobile Blank
  - Service
  - Extension

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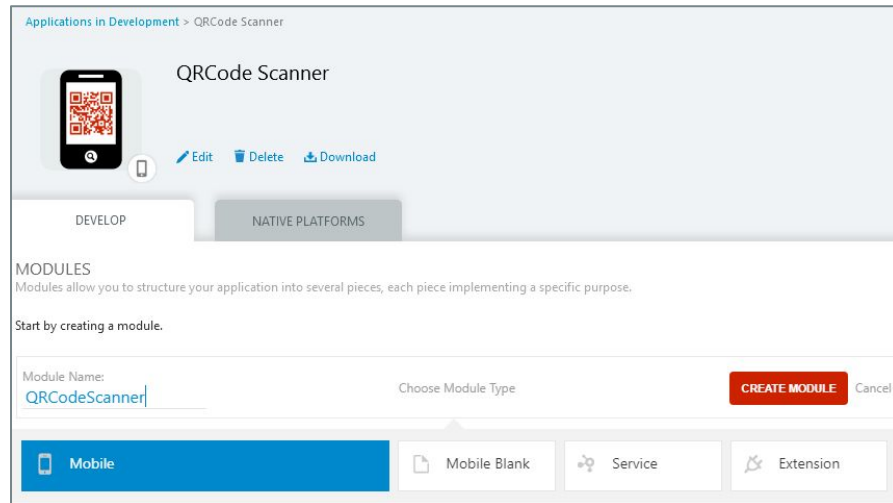
Modular Programming

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

Finance

TimeSheets

Projects

Employees

Directory
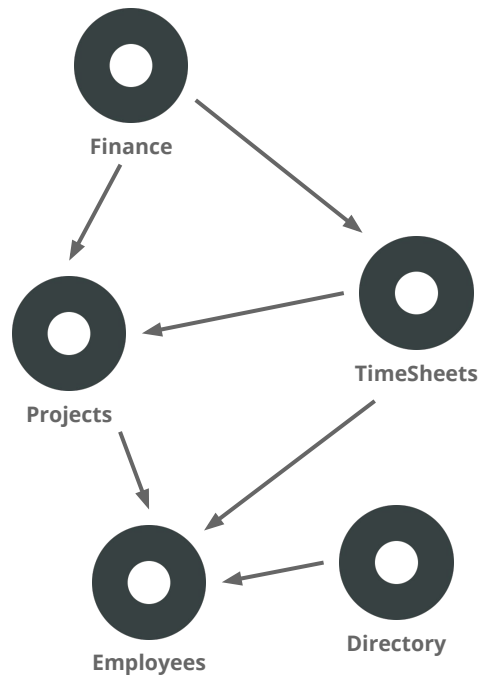
Modular Programming in OutSystems

- An **Application** groups a set of related **modules**

- Modules can share elements with other modules
  - Modules that share features are called **Producers**
  - Modules that use features from others are called **Consumers**

- Producers and Consumers can be in different applications

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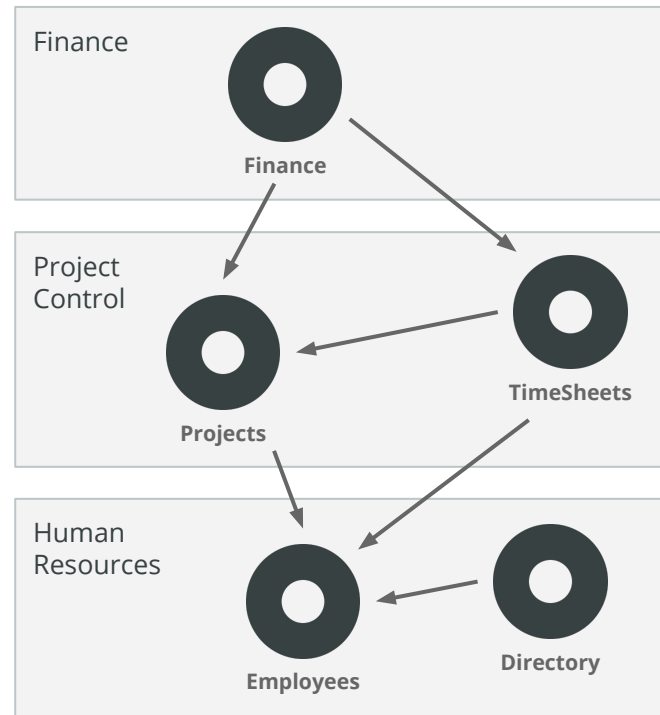
Producers

Make features **Public** to share them

The following elements can be made public:

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

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Consumers

- Reuse public elements from producers

- Manage Dependencies
  - Modules with public features are displayed
  - Select the desired elements to be able to use them (consume)

- Selected elements become available in the module
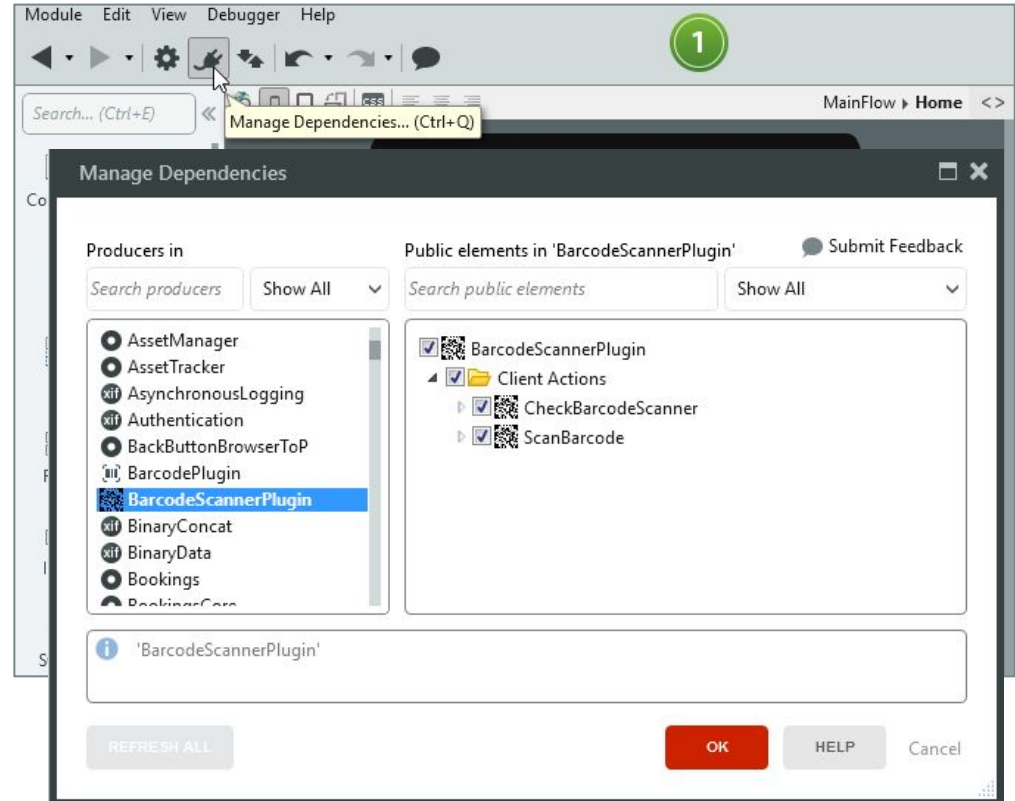
Summary

- Mobile Applications in OutSystems
  - Creating a mobile application
  - Application modules

- Modular Programming with OutSystems
  - Consumer and producer modules

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Mobile Applications

in OutSystems

Thank You!