Introduction to Reactive Web Apps

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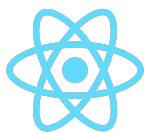Programming Model

Modular Programming

Modules and Applications

Producers and Consumers

Reactive Web

Enable the creation of **client-side** Web apps with **rich** interfaces and **interactive** experiences

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Reactive Web Apps in OutSystems

State-of-the-Art Web Architecture

Follow the most recent standards and best practices, protecting you while making you move fast in an always changing landscape.

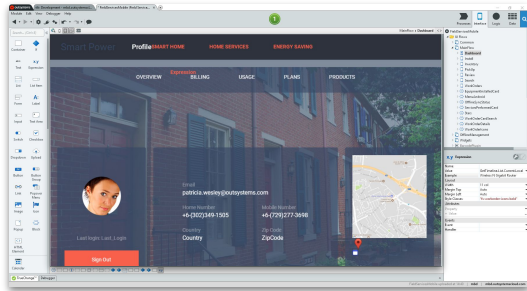### Apps that Delight Your Users

Deliver apps that move at the speed of thought. Increase customer engagement: check! Making your employees more productive: check! Make everyone fall in love with your apps: check!

Unified Developer Experience

Use low-code to create any app, for any device. Enjoy a great unified developer experience so you can deliver fast and change faster.

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Developing Apps

Service Studio

OutSystems Platform

Publish

Open

Browsers

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Programming Model

Asynchronous data requests

JavaScript

Cross-device

Single-page application
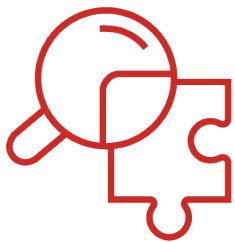
HTML

Client-side

Screen Logic as JavaScript
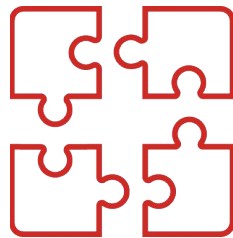
React

HTML generated from JavaScript

CSS

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Modular Programming

Software design technique that focuses on separating each functionality of an app into a different module.
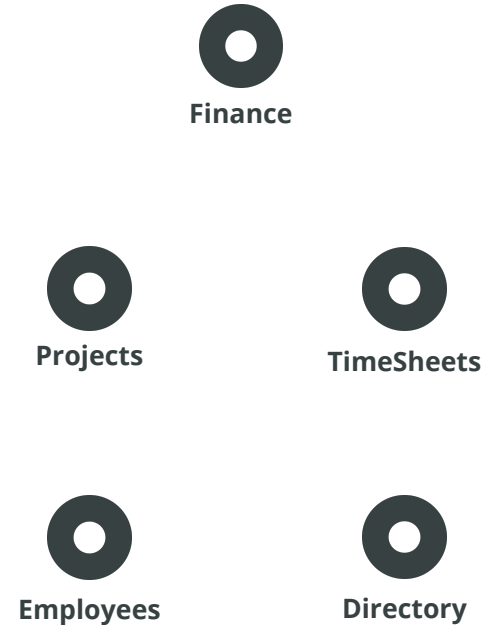
Encapsulate everything to execute **one aspect** of functionality in a single module

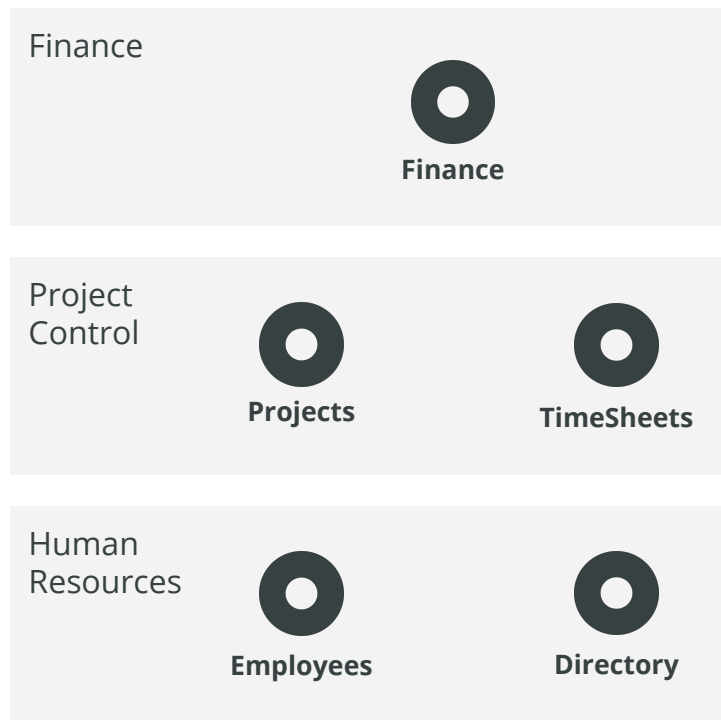Separate functionality by **independent** and (potentially) **replaceable** pieces of code.

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Modules

- User interface and business logic is developed inside a **module**

- Types of Modules:
  - **Reactive Web App**
  - Blank
  - Service
  - Library
  - Extension

Finance

Projects

TimeSheets

Employees
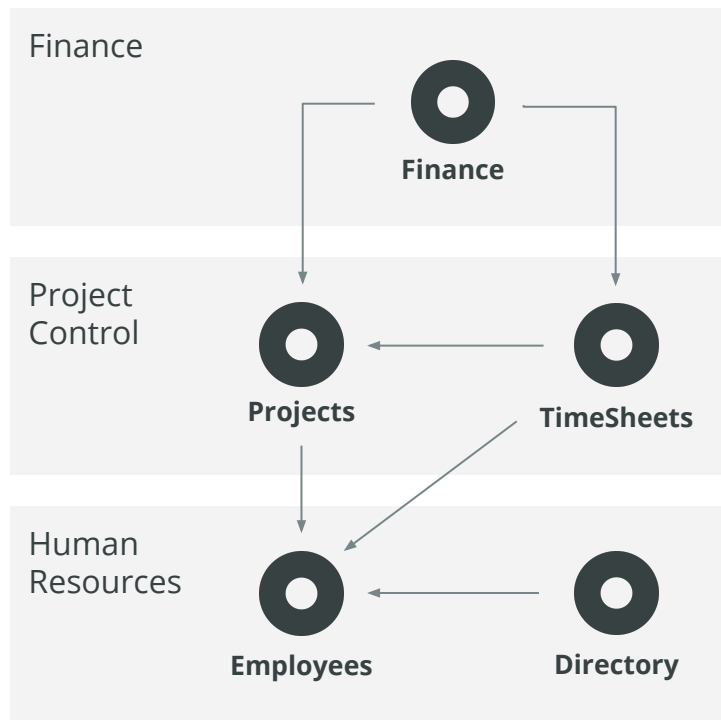
Directory

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Modules

- User interface and business logic is developed inside a **module**

- Types of modules
  - **Reactive Web App**
  - Blank
  - Service
  - Library
  - Extension

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

Finance

Finance

Project Control

Projects

TimeSheets

Human Resources

Employees

Directory

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Producers and Consumers

- 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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Questions?

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Thank you

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