Database Entities

outsystems

What is an Entity?

Entity Attributes

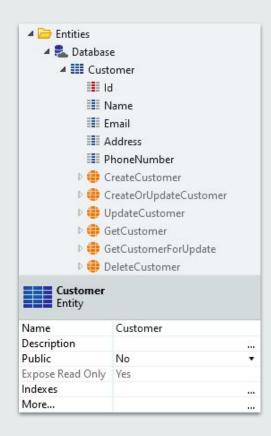
Entity Actions

What is an Entity?

An **Entity** is an element that allows us to **persist and access information** that is needed in our applications



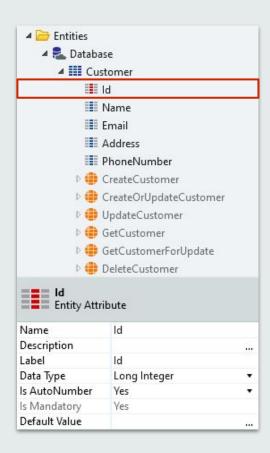
Entity



- Each business concept should be represented as an Entity
- Entity data is persisted in a Database
 Table
 - Each new record of an Entity is inserted as a row on the corresponding table
- Entities...
 - store sets of data
 - have attributes
 - have entity actions



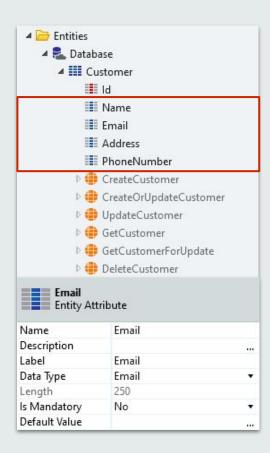
Id Attribute



- Automatically created
- Uniquely identifies the Record on the Entity
- Primary key in DB
- Supports relational database operations



Attributes



- Entity data is stored in its attributes
- Attributes represent business concepts' properties
 - Map to a column on the respective database table
- Must have a basic Data Type



Basic Data Types











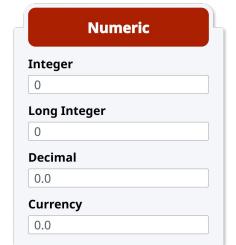






Default Values









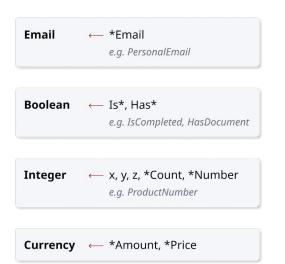






Data Type Inference

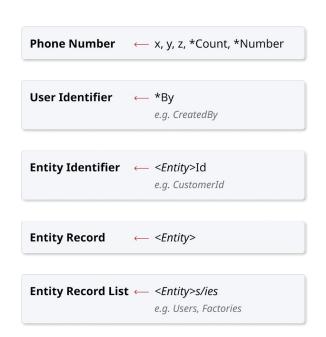
When naming a new attribute (or variable), OutSystems tries to infer its type

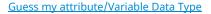


```
Date Time ← *DateTime, * On, *Instant
e.g. Datetime, CreatedOn

Date ← *Date
e.g. BirthDate

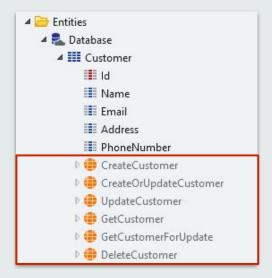
Time ← *Time
```







Entity Actions



- Automatically created
- CRUD data operations
 - Create: CreateCustomer
 - Retrieve: GetCustomer
 - Update: UpdateCustomer
 - Delete: DeleteCustomer
- Entity actions can be used directly in the business logic of the application



Questions?

Thank you