

**GeneXus™**  
**The power of doing**

GeneXus

# Update to GeneXus 16

GeneXus Training Program

*GeneXus™ 16*

## Overview

GeneXus  
Platform

Solutions



## DevOps practices



**Development**

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Multi-experience & Omnichannel

Integration

Security

Build

Test





## Multi-experience & Omnichannel

Integration

Security

Build

Test



Reach

Web

Engagement

Mobile / Wearables / Chatbots / TV / AR

Loyalty

## Multi-experience & Omnichannel



- Powering Design
- UX: Streams of information (Twitter, Facebook-like apps)
- Conversational UI: Chatbots
- Multi-layer Maps
- Powering analytics
- Woreables (Apple Watch, Apple TV)
- ... and more in Web and SD

## **Powering Design**

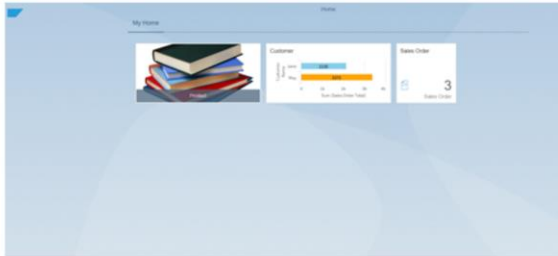
## Design Systems

Principles

Patterns

Practices

## Design Systems



Fiori Launchpad

Fiori Split Screen  
Master List

The screenshot shows the Fiori Split Screen Master List interface. The left pane displays a table of countries with columns for Country and a numerical value. The right pane shows a detailed view of the selected country, Uruguay, with fields for ID, Name, and Population. The bottom of the interface has buttons for 'Insert', 'Update', and 'Delete'.

Country (4)		Country
Search		Uruguay
China	1380996000	GENERAL
Uruguay	3440157	ID: 2 Name: Uruguay Population: 3440157
USA	325318000	
Iceland	334252	

Buttons: Insert, Update, Delete

## Design system

Base styles



Themes

Controls



Stencils

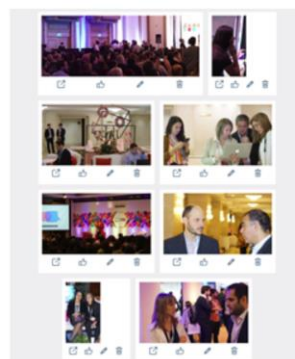


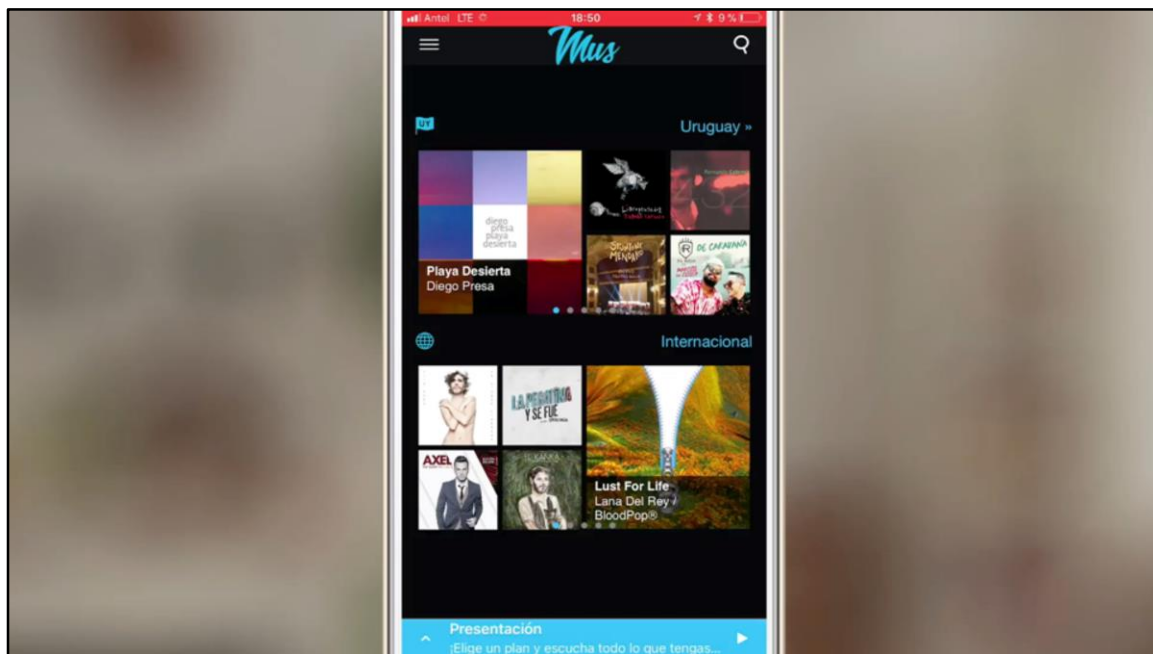
Patterns

Master Pages

**UX**







## **Conversational UI**

## Chatbots

Natural Language

Voice

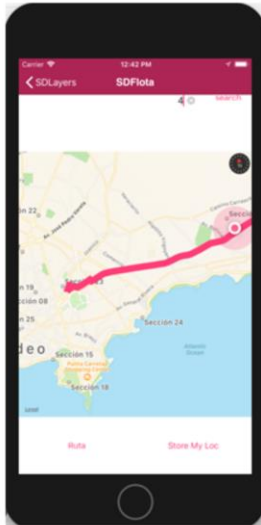
Text

Hybrid

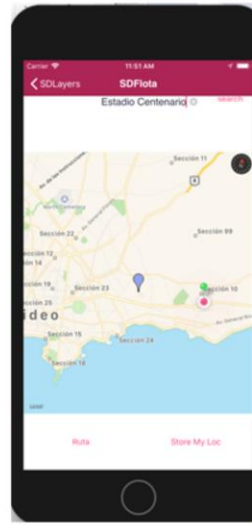
Do tasks

## **Multi-layer maps**

## Direction and Selection layer - SDmaps



Direction  
Layer



Selection  
Layer

## **Powering analytics**

# Rusia 2018

Tabla general

5	4	0	1	7	3	4
Jugados	Ganados	Empatados	Perdidos	Goles a favor	Goles en contra	Diferencia goles

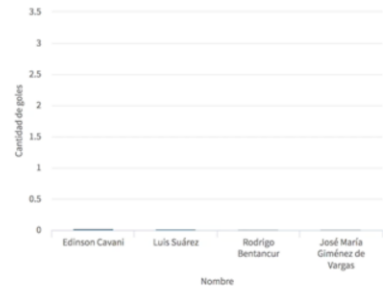
Disciplinario

3	0	63
Tarjetas amarillas	Tarjetas rojas	Fouls

Partidos



Goleadores (clic para info del jugador)



Equipo

Uruguay

Fase

(Todas)

Fecha

(Todas)

Grupo

Amigachos

Usuarios

No hay selección

Top (ranking)

5



**Apple Watch / Apple TV**



tv



GX28 TV

Multi-experience & Omnichannel

Integration

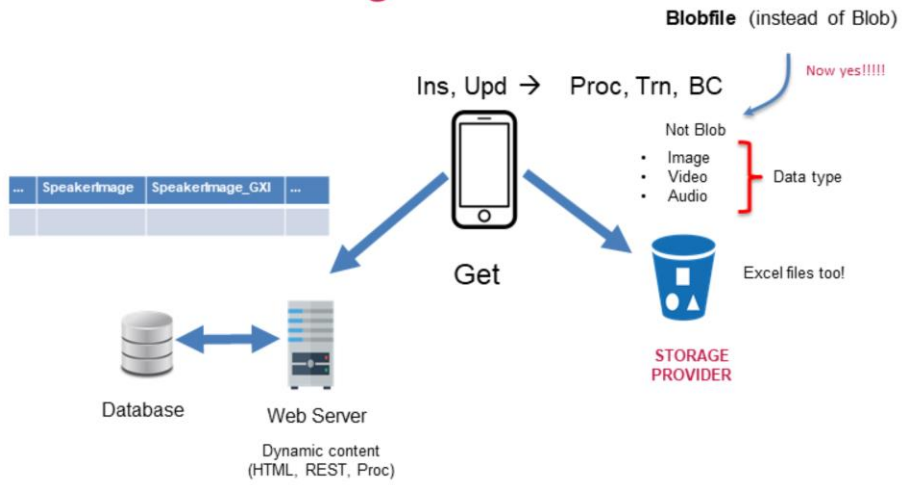
Security

Build

Test



## Cloud external storage



## Services

SOAP

OPEN API (Rest)

+

Services through Data Stores

ODATA

CRUD



Data View → Transaction → Attributes → for each

## Streams & Notifications apis

Sockets

Kafka

JPush, OneSignal

## Payment apis

MercadoPago

Paypal

Stripe

WeChat Pay

Ali Pay

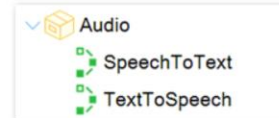
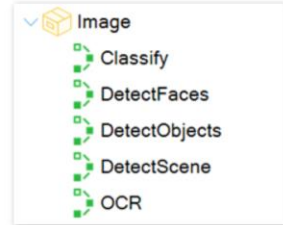
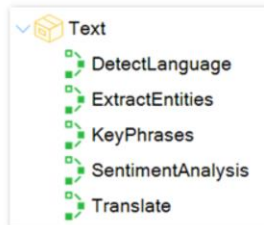


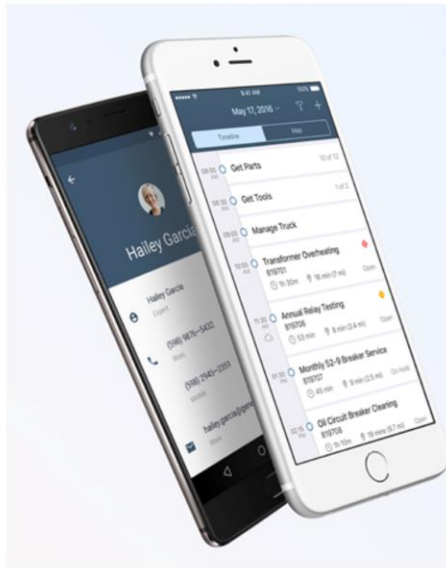
# Artificial Intelligence

IBM Watson

Microsoft CS

SAP Leonardo





## Accelerate adoption of SAP Systems

Automatically  
Extend SAP S/4HANA®  
Leverage SAP HANA DB,  
Deploy to SAP Cloud Platform  
Enjoy SAP Fiori UX  
Take advantage of SAP Leonardo



**SAP® Certified**  
Integration with SAP® S/4HANA

Multi-experience & Omnichannel

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## Data Security

Sensitive Data Protection

Apps Obfuscation

Offline DB Encryption

GeneXus Access Manager

## OAuth 2 & SSO

Office 365

Linkedin

Mercado Libre

Instagram

...any other OAuth 2

Multi-experience & Omnichannel

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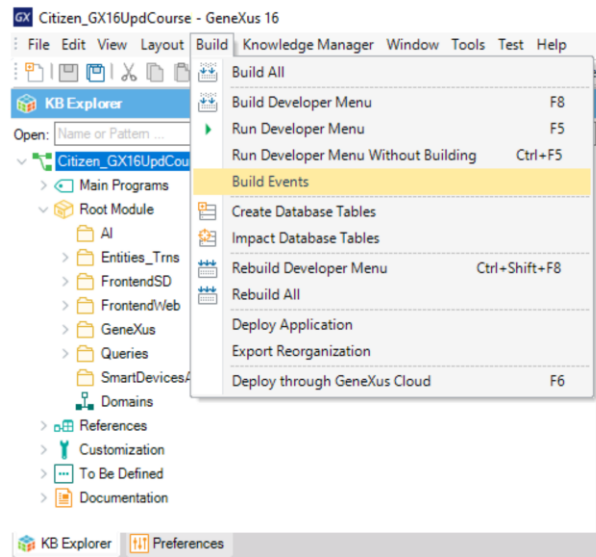
Build

Test



# Build

Build events



## New generators

.NET Core

Apple Watch

Apple TV



Multi-experience & Omnichannel

Integration

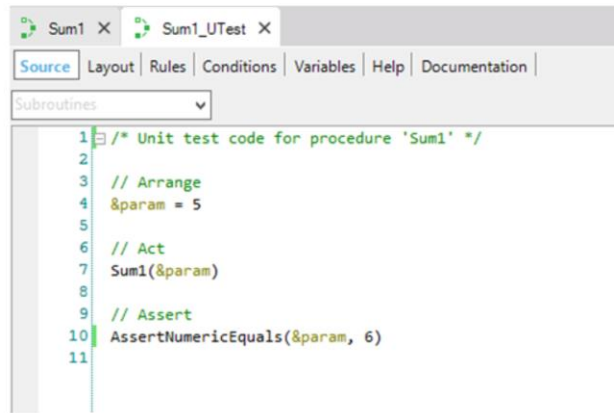
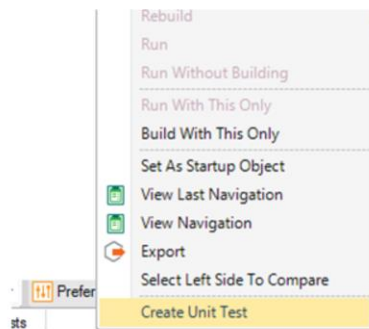
Security

Build

Test



## Unit Testing



**Operations**

## Package/Release/Deploy

Deployment Unit Object  
Build events  
Serverless (deploy to AWS lambda)  
GX Cloud Deployment Services → F6 PAAS  
Containers (Docker)

## Configure/ Operate

ConfigurationManager API  
Config via Environment variables

## Monitor

Log API



```
Event 'WriteAllLogLevels'  
  Composite  
    Log.Debug("Debug message","TestSDLoggingDebug")  
    Log.Info("Info message","TestSDLoggingInfo")  
    Log.Warning("Warning message","TestSDLoggingWarning")  
    Log.Error("Error message","TestSDLoggingError")  
  EndComposite  
Endevent
```



## DevOps

GeneXus

Multi-experience & Omnichannel

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Package/Release/Deploy

Configure / Operate

Monitor



Pipeline control

# Pipeline control



**Source Code Management**

☐ None

☒ GeneXus Server

GeneXus Installation

GeneXus Server URL

GeneXus Server Credentials

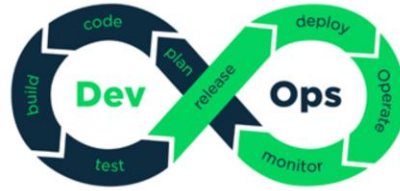
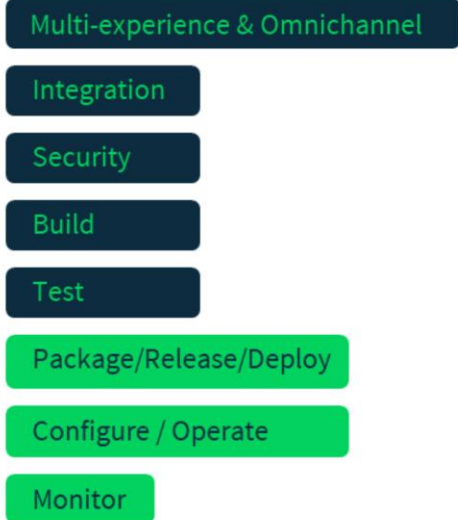
Knowledge Base Name

Version

☐ Subversion

## DevOps

GeneXus





Create, **evolve** and **mantein**  
unprecedented software  
solutions **automatically**



More videos

[training.genexus.com](http://training.genexus.com)

Documentation

[wiki.genexus.com](http://wiki.genexus.com)

Certifications

[training.genexus.com/certifications](http://training.genexus.com/certifications)