Laboratorio Oracle BPMN

IN79Ñ-1

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Obejetivo

 Hacer un proceso simplificado de credito y ejecutarlo directamente en el servidor.

El Proceso

- Un proceso de solicitud de crédito comienza cundo el cliente decide pedir un crédito vía web.
- El cliente debe llenar los siguientes datos:
 - RUT
 - Nombre Completo
 - Fecha de nacimiento
 - Monto del crédito.
- Posteriormente la solicitud de credito debe ser almacenada para que en otro proceso sea revisada.

Solucion BPMN





Proceso en Oracle BPMN

Requisitos para comenzar

- Jdeveloper
- BPM Extension
- SOA extension

Pasos Para la Creacion del primer Proyecto

- I. Crear Proyecto
- 2. Crear Proceso
- 3. Crear Objetos de negocio
- 4. Crear Fomulario
- 5. Servicio Para Grabar formulario
- 6. Definir Roles
- 7. Desplegar en servidor
- 8. Test y monitoreo

1. Crear Proyecto



1. Crear Proyecto



- 1. Crear Proyecto
- Aplication Name: Credito[nombre]
- Aplication Template: BPM Aplication

ime your applicati	on the second seco
a di setta di secondo	Application Name:
Application Name	Credito
Project Name	Directory:
	C:\JDeveloper\mywork\Credito Browse
	Application Package Prefix: Application Template:
	Generic Application Creates an application which includes a single project. The project is not preconfigured with JDeveloper technologies, but can be customized to include any technologies.
	BPM Application Creates a BPM application. The application consists of one BPM project. This project has also SOA technology
	Fusion Web Application (ADF) Creates a databound ADF web application. The application consists of one project for the view and controller components (ADF Faces and ADF Task Flows), and another project for the data model (ADF Business Components).
Help	< Back Next > Finish Cancel

- 1. Crear Proyecto
- Project Name: CreditoProject
- Technologies: BPM y SOA







- 2. Crear Proceso
- From Patern:
- Manual Process



- 2. Crear Proceso
- Name: Credito Process
- Finish

BPMN Process:			
General Advanced			
CreditoProcess			æ
Id: CreditoProcess			9
Description			
			(CPh)
			9
Others	 	 	
Author: Caco			

- Cambiar Nombre Actividad
- Sobre la actividad, boton derecho: Properties



Name: LlenarFormulario

🔷 Properti	ies - UserTask		×
Basic Imp	lementation		
Name:	LlenarFormulario		9
			۲
Description:			
Help		OK Car	

View->Component Palette





2. Crear Proceso Agregar Actividad Registro Solicitud



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2. Crear Proceso Agregar Actividad Registro Solicitud

Name: RegistroSolicitud

🖕 Properties - RegistroSolicitud	
Basic Implementation	
Name: RegistroSolicitud	۲
	۲
Description:	
Sampling Point Samp	
Help OK O	Cancel



Nuevo Modulo

Application SPM	Proj 🔞		_	HelloWorldProcess
🖃 📆 HelloWorldProject				E 😣 🔶 🖲
🗄 🚮 Processes				
🗄 🕀 Activity Guide				
🗄 🚠 Organization				
🗄 📣 Business Catalog	2			
🗄 🚽 🔄 Simulations	🗳 Ne <u>w</u>	۱ م	👂 Moc	lule 📐
🗄 🖅 🔁 Resources	🚱 <u>R</u> eload		🛃 Busi	ness 65ject
		9	🚯 Busi	ness Exception

Module: CreditoTypes

Create Module	X
Module: CreditoTypes	
Help	OK Cancel

New Business Object



Name: CreditoObject

Create Business Object		\mathbf{X}
Business Object		
Name:	CreditoObject	
Destination Module:	CreditoTypes	Q
Based on External Schema		9
Help		OK Cancel

Añadir Atributos

🔁 Hellow Overview	Application1 Overview	🔁 hola Overview	😪 CreditoProcess	CreditoObject		Component Palette	🙀 Re 💶
Business Object						My Components	•
Description:						<u> </u>	٢
Documentation:	Edit					Favorites	
🗆 Dotaile						Recently Used	
Attributes							
					Add	Attribute	
					Hdd	Heenbace	

Añadir Atributos:

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Name	Туре
Nombre	String
Rut	String
FechaNacimiento	Time
Monto	Int



En processes

- CreditoProcess
- Ver Structure
- Si no esta se puede añadir esa ventana en
 - View
 - Structure

Application	BPM Projec	R	_	
CreditoPr	oject asses TreditoProcess ity Guide nization eess Catalog ations urces			
	s - Structure		_	
📌 🔮				
 	Indicators nents Jata Objects ata Objects			

- En Process Data Object:
 - New



- Name: SolicitarCredito
- Type: ...

- Browse Types
- Type: <Component>
 - CreditoObject

🍲 Create Data Object	
Name: SolicitarCredito	
Type: String	.
💌 Auto initialize	Br
Help	OK Cancel

े Browse Types	X
Type: <component></component>	-
Component	
Find:	C*
78 CreditoObject	
CreditoTypes.CreditoObject:	
Help	OK Cancel

 El Data Object Solicitar Credito esta creado



- Implementacion del Formulaio
- Sobre la actividad, boton derecho: Properties



EN la pestaña IMPLEMENTATION

Definir Tarea Humana con +

🖕 Properties - LlenarFormulario	×
Basic Implementation	
Implementation Type: [🔁 User task	•
Human Task:	
Human Task Attributes	
Title: Plain Text 🕶	
Priority: 3 (normal) 🔻	
Re initiate	
Advanced	
Data Associations	
Use Associations Type: Simple 🔻 🥒	
Use Transformations	
Help	OK Cancel

Name	EscribirFormulario
Pattern	Initiator
Title	Llenar formulario solicitud de credito
Parameters	+ Añadir objetos de negocio

춸 Create H	luman T	ask		
General				
Name:	EscribirFo	ormulario		Priority: 3 (normal) 🔻
Pattern:	😰 Initia	ator		•
Title:	Llenar Fo	ormulario solicitud de cr	edito	
Outcomes:	SUBMIT			
Parameters:				+ 🗙
Parameter		Name	Туре	Editable
Outcome targ	et:			
Help				OK Cancel

- Asociar el objeto de negocio solicitarCredito ya creado Arrastrandolo a los parametros
- Selecionar "Editable"

춸 Create H	Human Task		×	🕹 Data Object	×
General				Drag Data Objects to Parameters table and Outcome Target field	
Name:	EscribirFormulario	Priority: 3 (nor	mal) 🔻		
Pattern:	😰 Initiator		-		
Title:	Llenar Formulario solicitud de	e credito			
Outcomes:	SUBMIT			CreditoProject	
Parameters:			××		
Parameter	Name	Type Editable			
CreditoObjec	t SolicitarCredito	CreditoTypes.Credit			
Outcome targ	get:		+ 🦉		
Help		OK	Cancel		
				Help Clos	e

- Abrir "EscribirFormulario" en Buisness Catalog > Human Task> EscribirFormulario.task
- En create Form > Auto-Generate Task Form



Project Name:

Credito_UI

🕹 Create Project 🛛 🛛 🔀	
Enter the name and directory of the new project. Use projects to organize your files.	
Project Name: Credito_UI	
C: (DDeveloper (In/work (Credico (Credico_OI	
Help OK Cancel	

jws : Credito_UI.jpr : C:\JDeveloper\mywork\Credito\Credito_UI\public_html\taskDetails1.jspx		
ch <u>N</u> avigate <u>B</u> uild <u>R</u> un Design Versioning <u>T</u> ools <u>W</u> indow <u>H</u> elp		
~ 🏤 ~ 📥 🕍 🚢 * 🍉 * 🕸 *	💏 🕶 Search	
Application1 Overview 🛛 🔄 Hola Overview 🛛 😒 CreditoProcess 🛛 🍰 Escribir Formulario. task 🛛 🔢 task Details 1. jspx 🛛 🔀 Escribir. 🔍 🗩 🖉	Component Palette	-
🔞 • Show • [Full Screen Size •] 🚇 None • Default • None • 🐘 🗞 🖉 B / U 🗄 🗄 💇 🕾 🖭 • 🦷	ADF Faces	Nuevas
S 2 ???DETAILS??? 1	Common Components	Componentes
???ASSIGNEES??? #{displayName} ??? #{expirationDate. ???TASK_NUMBER? ???CREATOR??? #{displayName} ???CREATOR??? #{expirationDate. ???TASK_NUMBER? ???CREATE_DATE??? #{displayName} ???PRIORITY? ???CREATE_DATE??? #{updatedDate.inputValue} ???PIUE_DATE??? ???PRIORITY? ???DUF_DATE_DATE??? #{updatedDate.inputValue} ???OUTCOME??? ???OUTCOME???	Bread Crumbs Button Calendar Carousel Carousel Item Layout	
⊻???CONTENTS???	Document	
Nombre #{nombre.inputValue} Rut #{rut.inputValue} Fecha Nacimiento #{fechaNacimiento.inputValue} Monto #{ monto inputValue}	Navigation Pane Panel Accordion Operations	✓
anderaudavaut #nel5 =) afichaudetailheadar #anorbhd =) afinanelaraudavaut #nlon76 =) afinanelformlavaut #nfl1 =) afinanuttevt #it1 =)	Tinput Text - #{bindings.monto	Opciones de
Design Source Bindings Preview History	• Id: it1	Componentes
👔 taskDetails1.jspx - Status	Rendered: <default>(true)</default>	Componences
	Label: #{bindings.monto.hints	. ~
A 76 warnings, 27 incompletes	Value: #{bindings.monto.input	1 ~
A The prent h is never used in the document 📄 🗄 👘 Application Sources warning	+ Appearance	-
The af manelHeader has empty facet(s)	m chula	
The info facet is empty		-
The legend facet is empty	🗄 Behavior	
The menuBar facet is empty	🗄 Advanced	
Reference "resources.TASK_ACTIONS" not found	Customization	
🔥 Grouping a single component has no effects.	Castoniedton	
🔺 Reference "childNode1.displayName" not found	·	
Inserting inside Input Text - #{bindings.monto.hints.label} Sele	cted: Input Text - #{bindings.mon Web B	Editing

- 5. Servicio Para Grabar formulario
- Ir a Composite Editor

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Component Palette

Service Components
 BPEL Process
 BPMN Process

🧼 Business Rule 🏠 Human Task

Service Adapters
 ADF-BC Service

🐗 Mediator 🌄 Spring Context

SOA

B...

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- Paleta de componentes.
- Componentes SOA
 - Elegir File Adapter
- Drag and Drop a "Extenal References"



- Service Name:
 - GuardadSolicitud
- Adapter Interface:
 - Define from operator and schema
- Operation Type:
 - Write File
- Operation Name:
 - Escribir



🔷 Adapter Configuration Wizard - Step 3 of 4	\mathbf{X}
Adapter Interface	
The adapter interface is defined by a wsdl that is generated this wizard. Optionally, the adapter interface may be define	l using the operation name and schema(s) specified later in ed by importing an existing WSDL.
Interface: Define from operation and schema (specified 	later)
Import an existing WSDL	
WSDL URL:	1
Port Type:	•
Operation:	v

Operation		0101010101010101010101010
The File Adapter supports four system, a Write File operation contents of a file, and a List Fi Operation Name. Only one op	r operations. There is a Read Fi that creates outgoing files, a S iles operation that lists file name peration per Adapter Service ma	le operation that polls for incoming files in your local file ynchronous Read File operation that reads the current is in specified locations. Specify the Operation type and y be defined using this wizard.
Operation Type: ORead File	e	
	e	
	nous Read File	
Synchron	in a strand the	

- Directory Outgoing Files:
 .
- File Naming: Credito_%Seq%.txt

े Adapter Configuration Wi	zard - Step !	5 of 7				X
File Configuration			010101	01010101010101030444444	*	
Specify the parameters for the Wri	te File operation	6				
Directory specified as Ph Directory for Outgoing Files (physic . 	∕sical Path al path):	Logical Name			Browse	
File Naming Convention (po_%SEQ	%.txt): cre	edito_%SEQ%.t	×t			1
Append to existing file						
	1. 19.5					
Number of Messages Equals:	1	are mec-				
Elansed Time Exceeds:	1			minutes	-	
File Size Exceeds:	1000			kilobytes 💌		
						_
Help			< <u>B</u> ack	<u>N</u> ext >	Einish Cancel	

URL

Asociar con
 CreditoObject



- Asociar Servicio Creado a RegistroSolicitud.
 - Boton derecho en
 RegistroSolicitud
 - Properties
- En pestaña implementation
 - Implementation: Service
 Call
 - Name: **Buscar (lupa)**
 - Guardar Solicitud



🕹 Properties	s - RegistroSolicitud	×
Basic Impler	mentation	
Implementation	n Type: 👩 Service task	-
Service task-		
Implementati	ion: 💮 Service Call	•
Name:	Q 🗸	•
Operation:		•
-Data Associa	🕹 Type	
Use Ass	Search:	
🗌 Use Tra		
		_
	/Services/Externals/GuardarSolicitud:	
	Help OK Cancel	
Help	OK	el

Usar Associations

Edit

🕹 Properties - Write Message	×
Basic Implementation	
Implementation Type: 🔯 Service task	•
Service task	
Implementation: 💮 Service Call	-
Name: MessageWriter	۹ 🧳
Operation: write	-
Data Associations	
Use Associations Type: Simple 🕶 🥒	
Use Transformations	

Arrastrar Solicitar Credito a Inputs

🖕 Data Associations	
Inputs SolicitarCredito Imputs <	Image: CreditoProcess Image: SolicitarCredito Image: CreditoProject
Help	OK Cancel



Roles:Añadir (+)

Usuario

D

Members: Añadir (+)

🗖 Roles	Roles		
🔠 📇 Organizational Chart			
🖪 Holidays	Name		
Calendars	Process Owner		^
	Role		
	Usuario		· · · · · · · · · · · · · · · · · · ·
	Role		
	Name: Usuario		
	Members		
			Type: User 💌
	Name	Туре	

🛓 Identity Look	up	×
Application Server:	IntegratedWebLogicServer (Resource Palette Connection)	₽
Realm:	•	
Search <u>P</u> attern:	* User Name	<u>]</u>
-Search User		
<u>S</u> elect	Hierar Repor Detail << >>	

🔷 Create Application Se	erver Connection - Step 1 of 5
Name and Type	
🙊 Name and Type	Specify a unique name and type for the connection. The name must be a valid Java identifier.
<u>Authentication</u> Configuration	Create connection in: IDE Connections
0 Test	Connection Name:
O Finish	MBEWeblogic
	Connection Type: WebLogic 10.3 ▼
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

User: weblogic

Password: welcome1

े Create Application S	erver Connection - Step 2 of 5
Authentication	
Name and Type	Specify a username and password to authenticate the connection.
Authentication	Username:
<u><u><u> </u></u></u>	weblogi:
u Test	Password:
o Finish	••••••
Help	< <u>B</u> ack <u>N</u> ext > <u>Fi</u> nish Cancel

• Weblogic Server: **I**46.83.5.23

- Port: 7001
- SSL: 7002
- Domain:
 - **Domain1**

🕹 Create Application S	erver Connection - Step 3 of 5	×
Configuration		010101010101010101010101010101010
Name and Type Authentication Configuration <u>Test</u> Finish	WebLogic Server connections use a host n Domain of the target will be verified Weblogic Hostname (Administration Server) 146.83.5.23 Port: 7001 Always use SSL Weblogic Domain: domain1	ame and port to establish a connection. The
Help		< <u>Back</u> Next > Einish Cancel

D



- Aplication Server: MBEweblogic
- Realm: Jazn.com
- User: Jcooper

🕌 Identity Look	ир			×
Application Server:	Remote_WLServer (R	esource Palette (Connection)	•
Realm:>	jazn.com			-
Search <u>P</u> attern:	*	User Name		-
Search User				
eheming fkafka istone jausten				^
jcooper ilondon				~
Select	<u>H</u> ier	<u>D</u> etail	<<	>>
-Selected User				
jcooper 🗲				
			Remove	Detail
Help			<u>о</u> к	<u>C</u> ancel

<u>File Edit Yiew Application Refactor Sea</u>	arch <u>N</u> avigate <u>B</u> uild <u>R</u> un	Versi <u>o</u> ning <u>T</u> o	ols <u>W</u> indow <u>H</u> elp						
🔁 🗁 🗐 🗊 🕫 🖓 🐚 🛍 I 🗿 • 🖉	🕽 - I 🏡 - I 🎂 🕍 🛎 🛎	- 🕨 - 🎄 -					(💏 - Search	
Application OBPM Pro	Hellow Overview	lication1 Overview	🔒 Organization	🗄 hola Overview	CreditoProcess		Component Palette	Resource Palette	
🕒 Credito 👻 🔁 🔻	Java Files					A 94 57	📸 🕶 Name		
▼ Projects 💽 🗞 🍸 + 📴 +	XML Files	Java Files:		Decice			My Catalogs		
	Offline Databases	Status Pile		Projec	u	•	▼ IDE Connections		_
CreditoProject Wew Edit Project Source Paths Delete Project Version Project Project Files Show Overview Make CreditoProject.jpr Pata Controls Pata Controls Pata Controls Run Debug CreditoProject. CreditoProject. Run Debug Recornat Organize Imports Compare With Replace With Replace With Replace With Resizer from Local History Refersh ADF Library Dependence No Structure	Ctrl+N Ctrl+F9 AlbF9 Ctrl+Alb Ctrl+Alb Ctrl+Alb Ctrl+Alb	CreditoPro	oject Project to MBEWebLogic				de la Application Server de la Appli	bLogicServer	
	💡 Status 🛛 🔳 Log								< < <
C:\JDeveloper\mywork\Credito\CreditoProject\CreditoPro	oject.jpr								Editing





🔷 Deploy CreditoProject	
Deploy Configuration	
Deployment Action Deploy Configuration Task flow deployment Summary	Composite Revision ID Project: CreditoProject Current Revision ID: 1.1 New Revision ID: 1.1
< <u>H</u> elp	 ✓ Mark composite revision as default. ○ Overwrite any existing composites with the same revision ID. ○ Use the following SOA configuration plan for all composites: Browse < <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel

🕹 Deploy CreditoProject					×
Task flow deployment					
Deployment Action Deploy Configuration Task flow deployment Summary	Ear Profile Name: Optional: Select W/	Credito_UI Append co Add gener Overwrite AR profiles. Un	mposite revision to ated profiles to app EAR check projects to e>	name Ilication «clude from deplo	vyment
	Deployable Taskflor	w Projects reditoProject	WAR Profiles	App (Context Root flow/Credito_UI
< <u> </u>			< <u>B</u> ack	<u>N</u> ext >	Einish Cancel

🖕 Deploy CreditoProjec		
Select Server	01	
Deployment Action Deploy Configuration Task flow deployment Select Server SOA Servers Summary	Application Servers: IntegratedWebLogicServer (domain unconfigured) MBEWebLogic	
Help	✓ Overwrite modules of the same name < Back Next >	n Cancel

- 8. Test y monitoreo
- http://146.83.5.23:7001/bpm/workspace/
- User: Jcooper
- Pass: welcome1

ORACLE [®] Espacio de Trabajo	le Proceso de Negocio	
	* Usuario: * Contraseña:	
copyright @ 2005, 2010, Oracle y/o sus Subsidiarias. Todos los Derecht	Reservados.	

8. Test y monitoreo

ORACLE' Business Process Workspace

Tasks **Process Tracking** Standard Dashboards Hide Tabs 📑 为 Administration Tasks Initiated Tasks Applications My Tasks 6 Assignee Me & Group 🗘 Status Assigned \$ Actions -(d) Search Advanced [CreditoProject] CreditoProcess v1.1 Title Number Priority Assignees State Created Expires E Llenar Formulario solicitud de credito CreditoProjec... Assigned Sep 7, 2010 4:19 PM 200103 3 **+**/× Worklist Views 🗄 Inbox V 🎯 My Work Queues E Due Soon High Priority Past Day Past Week E Past Month E Past Quarter . New Tasks Please select a task to see the details My Views V 🍄 Proxy Work Queues Shared Views > Reports > Task Status

Home Preferences Help Logout

Logged in as jcooper