

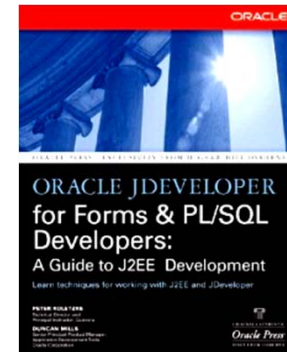
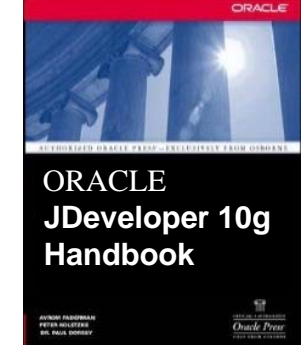
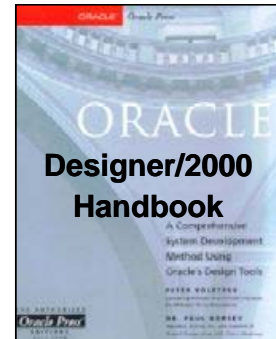
Getting to Know You: Visual Builder and Oracle Redwood

Peter Koletzke
Technical Director &
Principal Instructor



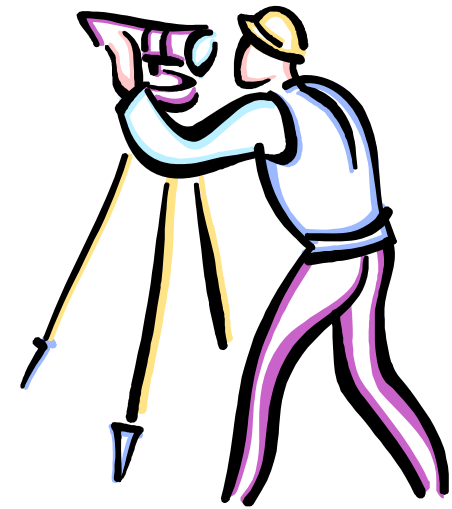
CV

- 39 yrs. database industry
- 31 yrs. consulting in Oracle arena
 - Since Oracle 5.1C, SQL*Forms 2.3
- 42 yrs. as trainer/presenter
- User groups
 - 390+ presentations, 12 awards
 - 13+ yrs. total on boards of directors
 - IOUG(-A), **NYOUG**, UTOUG
- Oracle ACE Director
 - Since program inception in 2005
- Oracle Certified Master
 - At program inception in Dec. 2001
- 8 Oracle Press books coauthored
 - 6262 pages total

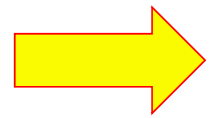


You

- Visual Builder
- APEX
- ADF/JDeveloper/MAF
- Other Java Tools
- Oracle Forms
- PL/SQL
- Other?



Agenda



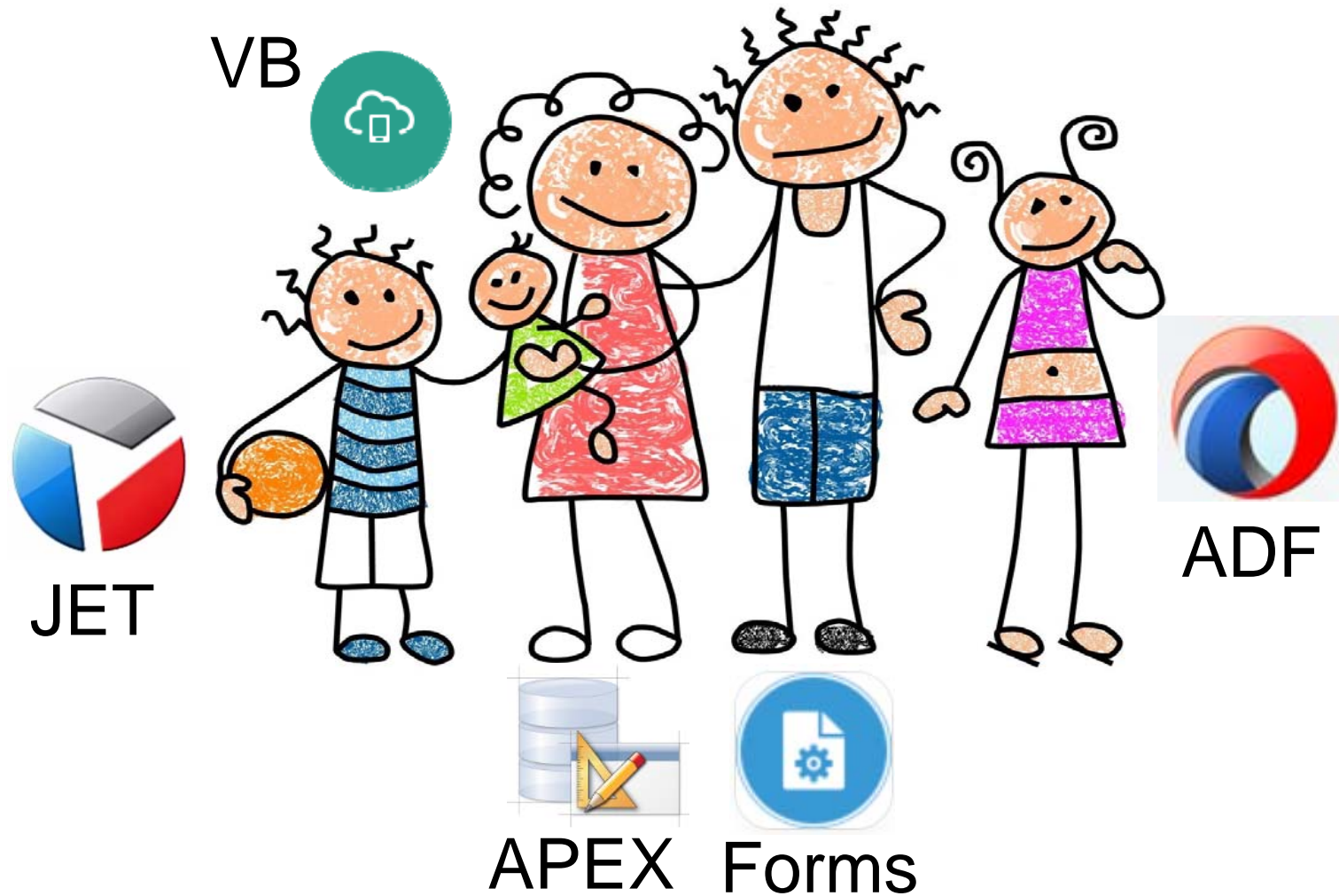
VB's Family

Visual Builder Quickstart

Redwood Quickstart

Resources

Oracle Development Tools Family





Oracle Forms

12.2.1.9

- Part of Oracle Developer (Fusion Middleware)
 - Packaged with Oracle Reports
 - BI Publisher is an alternate reporting tool
- Declarative programming + PL/SQL scripting
- Server runs Forms Runtime servlet
- Forms Runtime runs a compiled code file (.FMX)
- Form displays as a Java applet in the browser (or without a browser)
- No HTML!

www.oracle.com/technetwork/developer-tools/forms



Oracle Forms - Development Experience

The screenshot displays the Oracle Forms Builder application window. The title bar reads "Oracle Forms Builder - C:\code\busrules\busrules.fmb". The menu bar includes File, Edit, View, Layout, Program, Debug, Tools, Window, and Help. The interface is divided into several panes:

- Object Navigator:** Shows a tree view of the form structure. The selected path is Forms > BUSRULES > Items > NAME.
- Property Palette:** Displays properties for the selected item "NAME". The "Item Type" is set to "Text Item". Other properties include Name (NAME), Enabled (Yes), Justification (Start), and Case Restriction (Upper).
- PL/SQL Editor:** Contains a procedure definition:

```
Procedure Check_Package_Failure
BEGIN
  IF NOT ( Form_Success ) THEN
    RAISE Form_Trigger_Failure;
  END IF;
END;
```
- Canvas:** Shows the visual representation of the form. The selected item is a text field with the following properties:
 - Name: NAME
 - Short Name: SHORT_NAME
 - Comments: COMMENTS
 - Implemented As: IMPLEMENTED_AS
 - Effective Date: EFFECTIVE_DATE
 - Description: TXT_TEXT





Application Development Framework

12.2.1.4

- Oracle's main Java-based development tool
 - Also, XML, Groovy, no HTML
- Positioned for enterprise-level applications
- Supports any Java framework
- Includes ADF-specific frameworks
 - Very highly evolved
- Used to build Oracle Cloud (f.k.a., "Fusion") applications; runs on WebLogic Server

www.oracle.com/technetwork/developer-tools/adf





ADF Development Experience

Oracle JDeveloper 12c Development Build - ADF_Test_Drive.jws : ViewController.jpr

File Edit View Application Refactor Search Navigate Build Run Team Tools Window Help

Applications: ADF_Test_Drive

Projects: Application Sources, Offline Database Sources, ViewController, Application Sources, Web Content, fragments (countryLoc.jsff, departments.jsff, empBrowse.jsff, empEdit.jsff, jobs.jsff, managers.jsff, regions.jsff)

empBrowse.jsff - Structure: af:panelCollection - pc1, af:table - resId1, af:column - #{...EmpId}, af:outputText - #...

EmployeeId	First Name	Last Name	Email	Hire Date
#{...EmployeeId}	#{...FirstName}	#{...LastName}	#{...Email}	#{...HireDate}
#{...EmployeeId}	#{...FirstName}	#{...LastName}	#{...Email}	#{...HireDate}
#{...EmployeeId}	#{...FirstName}	#{...LastName}	#{...Email}	#{...HireDate}

```
<af:outputText value="#{row.EmployeeId}" shortDesc id="ot1"/>  
<af:convertNumber groupingUsed="false" pattern="###,###,###" />  
</af:outputText>  
</af:column>  
<af:column sortProperty="#{bindings.AllEmployees.headerText}" headerText="#{bindings.AllEmployees.headerText}" />  
<af:outputText value="#{row.FirstName}" shortDesc id="ot2"/>  
</af:column>  
<af:column sortProperty="#{bindings.AllEmployees.headerText}" headerText="#{bindings.AllEmployees.headerText}" />
```

Messages - Log

Load done adfnutshell.model.entities.Employees | Inserting inside Output Text - #{row.E... | Selected: Output Text - #{row.Employ...





Application Express (APEX)

22.2

- Free tool distributed with the database
 - Installed by default with 11g and beyond; or separate download; or APEX cloud service
- Implemented in PL/SQL
- Runs in the browser
- Generates PL/SQL
- A layer on top of the PL/SQL Web Toolkit

Pronounced
"Ae-Pex"



www.oracle.com/technetwork/developer-tools/apex

APEX Development Experience

Page Designer - Mozilla Firefox

Page Designer

ORACLE Application Express

Application Builder SQL Workshop Team Development Packaged Apps

Application 13886 Page Designer

Rendering

Page 1: Home

- Pre-Rendering
- Regions
 - Breadcrumb Bar
 - Breadcrumbs
 - Attributes
 - Content Body
 - Post-Rendering

Grid Layout Messages Page Search Help

Home

PAGE HEADER

PAGE NAVIGATION

BREADCRUMB BAR

- Breadcrumbs

ITEMS

Regions Items Buttons

Breadcrumb Calendar Chart

Classic Report Classic Report Help Text

Page

Identification

Name Home

Page Alias

Title Home

Page Group - Select -

Appearance

User Interface Desktop

Page Mode Normal

Page Template Theme Default

Template Options Use Template Defaults

CSS Classes

Media Type

Navigation Menu



Oracle JavaScript Extension Toolkit

12.1.0

- A.k.a., JET
- Pure JavaScript coding
 - Secondary: HTML5, CSS, SASS
- Need to understand:
 - Knockout.js, jQuery, CSS3, RequireJS (AMD)
- Used and refined internally at Oracle for 3+ years before releasing to customers

Syntactically Awesome
Style Sheets

<https://www.oracle.com/webfolder/technetwork/jet/index.html>

JET vs. ADF

<https://blogs.oracle.com/shay/oracle-adf-or-oracle-jet-an-update>





JET Features

- “Modular” – lots of prebuilt code samples
 - Cookbook on Oracle’s website
- Mobile or web applications – any web server
- Rich components, e.g. data visualization
- Upgrades to frameworks or libraries, require you to recode
 - No automatic migration of code as in ADF
- The heart of Oracle Visual Builder and Oracle Redwood





The JET Cookbook

- Visual samples
- Generates snippets for your app
- Key features notes
- JavaScript and TypeScript code to copy
 - With the relevant HTML
- Useful for custom code in Visual Builder, too





JET Cookbook's Live Sample and Code

Maine	1,277,072	1,285,692	1,295,960	1,306,513	1,313,688	1,318,787	1,323,619	1,327,040	1,330,509	1,329,590	1,327,651	1,327,651
Maryland	5,311,034	5,374,691	5,440,389	5,496,269	5,546,935	5,592,379	5,627,367	5,653,408	5,684,965	5,730,388	5,788,784	5,788,784
Massachusetts	6,361,104	6,397,634	6,417,206	6,422,565	6,412,281	6,403,290	6,410,084	6,431,559	6,468,967	6,517,613	6,566,440	6,566,440
Michigan	9,952,450	9,991,120	10,015,710	10,041,152	10,055,315	10,051,137	10,036,081	10,001,284	9,946,889	9,901,591	9,877,597	9,877,597
Minnesota	4,933,692	4,982,796	5,018,935	5,053,572	5,087,713	5,119,598	5,163,555	5,207,203	5,247,018	5,281,203	5,310,934	5,310,934
Mississippi	2,848,353	2,852,994	2,858,681	2,868,312	2,889,010	2,905,943	2,904,978	2,928,350	2,947,806	2,958,774	2,970,615	2,970,615

Overview

JS TS

Files used in this demo:

- demo
 - demo.html
- js
 - main.js
 - demo.js
 - demo.ts
- css
 - demo.css

```

Info  demo.html x  demo.ts  demo.css  DemoArrayDataProvider.js
1  <html lang="en-us" style="height:100%;" dir="ltr">
2  <head></head>
26 <body class="demo-disable-bg-image">
27 <div id="sampleDemo" class="demo-padding demo-container">
28 <div id="componentDemoContent" style="width: 1px; min-width: 100%;">
29
30 <div id="datagrid-container">
31 <div class="oj-panel oj-bg-info-30 oj-sm-margin-4x-bottom">
32 <oj-button id="piovt" on-oj-action="[[pivot]]">Pivot</oj-button>
33 </div>
34 <oj-data-grid
35 id="datagrid"
36 class="demo-data-grid"
37 aria-label="Data Grid Cell Based Grid Demo"
38 data="[[dataGridProvider]]"
39 selection-mode.cell="multiple"
40 scroll-policy="loadMoreOnScroll"
41 header.row.class-name="demo-data-grid-header-row"
42 header.column.style="[[getColumnHeaderStyle]]"

```



<https://www.oracle.com/webfolder/technetwork/jet/jetCookbook.html>

VB Family Developer Audiences



Oracle Forms

- Legacy Forms developers supporting Forms apps



Oracle ADF

- Java developers
- Forms developers trained in Java



Oracle APEX

- Forms developers
- PL/SQL developers



JET

- JavaScript developers
- ADF, Forms, or APEX developers trained in JavaScript

Agenda

VB's Family

 Visual Builder Quickstart

Redwood Quickstart

Resources



Visual Builder

- VB
 - Formerly, “Application Builder Cloud Service” or “Visual Builder Cloud Service”
 - “JDeveloper on the cloud”
 - Development of web and progressive web apps
- VB Studio
 - VB integrated with...
 - Developer Studio for DevOps
 - CI/CD tool
 - Handles all phases of software development/deployment





VB Features

- Originally developed for non-programmers
 - Now targeted at professional developers **of any discipline**
- Generates code – mainly JavaScript
- Data is supplied as REST services
 - **R**epresentational **S**tate **T**ransfer
- Development via a web page
 - No additional install needed
 - The app is published to the Web





VB Quickstart – Pricing

- Charged by OCPU

Currency
USD - US Dollar (\$) Cost estimator

Oracle Visual Builder

Product	Comparison Price (/vCPU)*	Unit Price	Unit
Oracle Visual Builder Cloud Service	\$0.61825	\$1.2365	OCPU per hour

1. Oracle Visual Builder is also available as part of [Oracle Integration](#).
2. For a list of pre-requisites, please check the [Service Description \(PDF\)](#).

*To make it easier to compare pricing across cloud service providers, Oracle web pages show both vCPU (virtual CPUs) prices and OCPU (Oracle CPU) prices for products with compute-based pricing. The products themselves, provisioning in the portal, billing, etc. continue to use OCPU (Oracle CPU) units. OCPUs represent physical CPU cores. Most CPU architectures, including x86, execute two threads per physical core, so 1 OCPU is the equivalent of 2 vCPUs for x86-based compute. The per-hour OCPU rate customers are billed at is therefore twice the vCPU price since they receive two vCPUs of compute power for each OCPU, unless it's a sub-core instance such as preemptible instances. Additional details supporting the difference between OCPU vs. vCPU can be accessed [here](#).

<https://www.oracle.com/application-development/visual-builder/>



VB Quickstart – How to Access

- Cloud account
 - “Always Free” (with the \$300 trial credits)
 - Paid account
- SaaS account
 - Included in the Fusion apps TEST instance
 - Limited to SaaS data and external sources that do not need authentication (for example, OAuth)
- Chrome browser only for development
- Other browsers for runtime

<https://docs.oracle.com/en/cloud/paas/app-builder-cloud/abcrn/supported-browsers.html>





VB Quickstart – Data Sources

Select Source

What is the source of your service connection?



Select from Catalog

You can select a service from our catalog of predefined service connections.

Oracle Cloud Applications or Oracle Integration instance endpoints



Define by Endpoint

You can point us to the URL of an endpoint and define its parameters declaratively.

external REST endpoint URL



Define by Specification

You can provide a service specification document that describes the service.

Swagger or Oracle ADF file that describes a service

Or: import test data from a file



VB Quickstart - Page Layout

Components

Data Sources

Structure

The screenshot shows the Visual Studio IDE with the Visual Editor open. The page layout includes a toolbar with buttons for 'Create Employee', 'Show Departments', 'Edit Employee', and 'Delete Employee'. Below the toolbar is a table with columns for 'Picture', 'Name', and 'Department'. The table contains four rows of employee data.

Picture	Name	Department
	Sean	Marketing
	Chris	IT
	Dave	Administration
	Jane	Purchasing

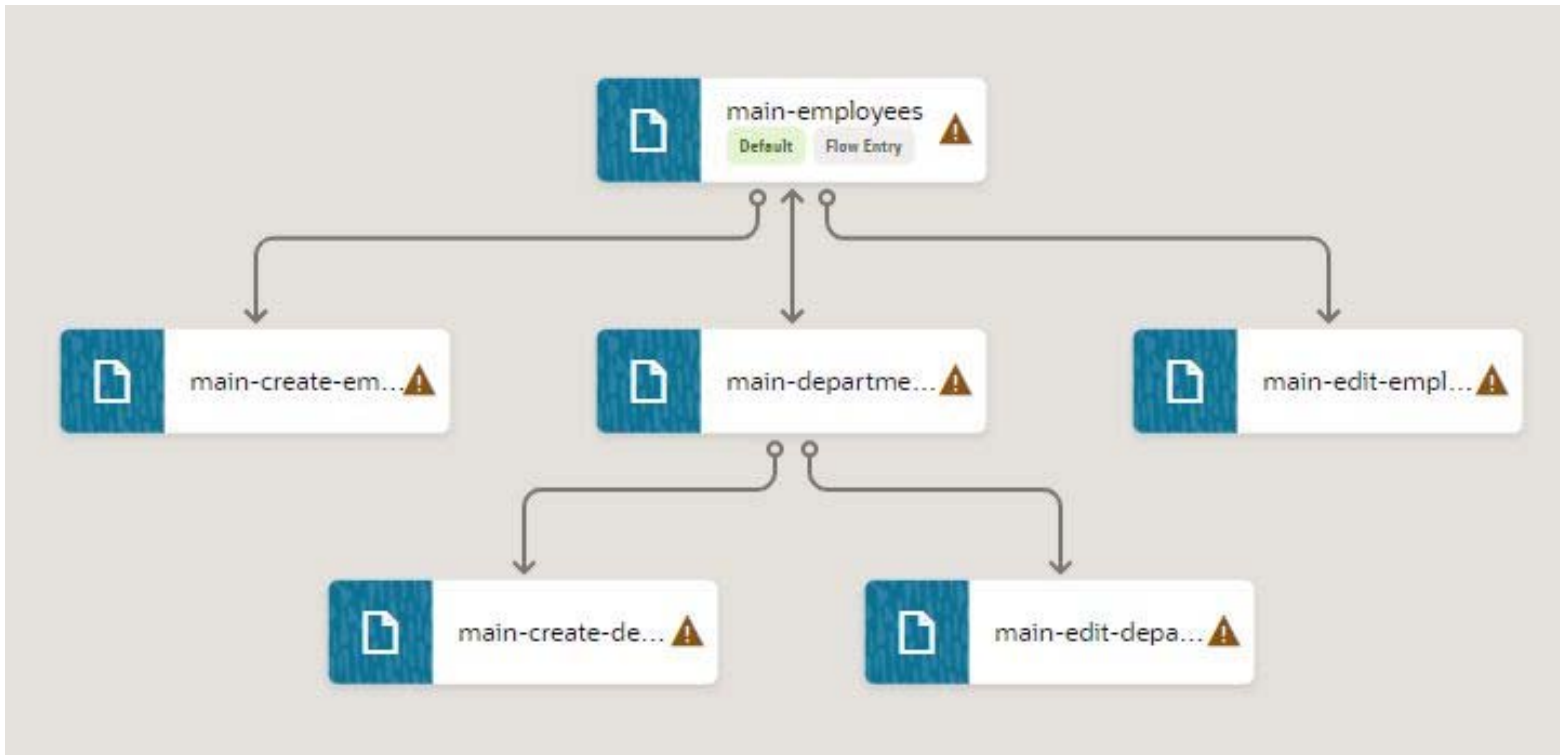
Visual Editor

Properties



VB Quickstart – Page Flow

- Navigation from user gestures like a button click or Save



Demo

Agenda

VB's Family

Visual Builder Quickstart

 Redwood Quickstart

Resources

Oracle Redwood

- Premiered as new look and feel: oracle.com, OOW 2019
 - Inspired by Asian, African, Aboriginal art
- No additional info for three years then:
 - Big release at OOW 2022
- Relevant history:
 - <https://www.oracle.com/corporate/blog/oow19-redwood-user-experience-cooperman-091619.html>
 - <https://www.youtube.com/watch?v=mAR5BWR3zcU>

Oracle Redwood Design System

- Based on extensive User Experience (UX) testing
 - “...intelligent search, a self-learning recommendation engine for incorporating business objects, a conversational engine for voice interfaces, and telemetry services that deliver real-time feedback on application performance and integrity.” ([source](#))
- Used to build Oracle Cloud/Fusion Applications
- Use it to extend Oracle Cloud/Fusion Apps
- Use it to build your own apps

<https://redwood.oracle.com>

Oracle Redwood Features

- UX Building Blocks
 - Available in Visual Builder
 - 90+ JET components
 - 80+ composites – multiple components
 - 40+ page patterns – multiple composites/components
 - Info about all of those in Visual Builder
- In APEX
 - 20.1+ UI and App Builder aligned with Redwood
 - 20.2+ Redwood Light Theme
 - App Builder will have Redwood theme “soon”



Summary

Lucas Dadich's team

Switch Manager

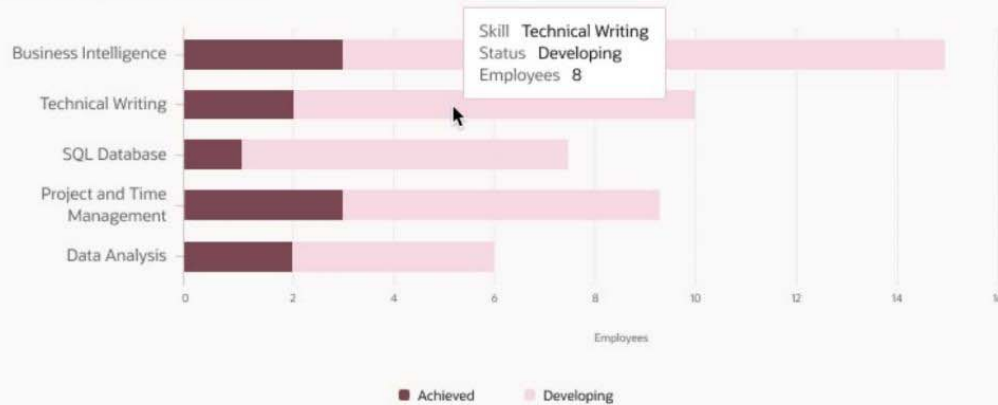
Core Skills

Essential to your team's mission and objective

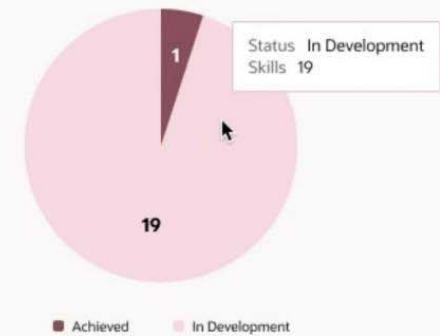
Role Skills

Required for the roles your team members are in

Least achieved core skills



1 of 20 Core Skills Achieved



Top core skills achievers



Colin Wu
Application Development Director
16 of 16 Core Skills Achieved

Bottom core skills achievers



Susan Owens
Application Director
0 of 8 Core Skills Achieved

Top achieved core skills

Performance Management
10 of 10 achieved

Sample Oracle Apps Pages from an Oracle briefing



Achievement Center

Samantha Adams

Add Check-in

Add Goal



Goals assigned to me 2

Shared goals 2

#SkillDevelopment 1

#TeamPerformance 1

20% Assigned by Sue Schmidt **SEO skill development for FY2022.** Increase proficiency in **Search Engine Optimization** skill to align digital marketing push. @DanBrians will be your partner and mentor. There are some coursework offered internally within this goal period. #SkillsDevelopment

Updated 20% Assigned by Inspire **Inspire FY 2021 Mission and vision is to sustain long-term and trusted relationships with all customers where we follow-through on our commitments.**

90% **Personal effectiveness improvement.** Increase Inspire service skills critical to accomplishing our strategic initiatives. I will increase my skills to at least 95%. #Teamperformance

New Not started **I will better serve my internal customers.** Using the new CRM platform, my goal is to successfully track customer behavior that I ...



January 2021

February

March

March 31
April

May

June



Cash Flow Forecasting

Share Submit

Canada All Banks Working USD Edit Delete

Layers

Rolling 13 weeks	16-May Week 0 Actual	16-May Week 1 Actual	16-May Week 2 Actual	16-May Week 3 Actual	16-May Week 4 Actual	16-May Week 5 Actual	16-May Week 6 Actual	16-May Week 7 Actual	16-May Week 8 Actual	16-May Week 13 Actual
Opening Bank Balance	245,000	265,300	285,300	265,200	124,500	159,360	191,560	125,060	144,212	152,779
Customer Collections	645,000	678,000	598,000	298,000	307,000	215,000	197,000	250,000	325,000	515,000
Bank Interests	4,500	0	0	0	1,300	0	0	0	0	0
Intercompany Collections	214,000	219,000	160,900	166,100	154,800	108,400	99,300	97,700	92,700	108,900
Cash Inflows	863,500	897,000	758,900	464,100	463,100	323,400	296,300	347,700	465,000	623,900
Trade Suppliers Payments	337,200	298,000	316,000	374,000	306,940	202,200	448,800	316,148	141,540	335,402
Capital Suppliers Payments	0	0	485,000	0	0	0	0	0	324,000	350,000
Salary Payments*	78,000	79,000	78,000	79,000	78,000	89,000	89,000	104,000	106,000	116,000
Comission Payments	0	0	0	0	0	0	0	89,000	0	0
Rent and Utility Payments*	15,400	0	0	17,800	0	0	0	0	0	0
Tax Payments*	12,600	0	0	0	15,300	0	0	0	0	0
Cash Outflows	443,200	377,000	879,000	470,800	400,240	291,200	537,800	528,548	571,540	814,402
Operating Cash Surplus	665,300	785,300	165,200	258,500	187,360	191,560	-49,940	-55,788	37,672	-24,723
Financing Inflows	0	0	100,000	0	0	0	175,000	200,000	150,000	300,000
Financing Outflows	400,000	500,000	0	134,000	28,000	0	0	0	0	0
Ending Balance	265,300	285,300	265,200	124,500	159,360	191,560	125,060	144,212	187,672	275,277
Ending Balance Variance	65,300	85,300	65,200	-75,500	-40,640	-8,440	-74,940	-55,788	-12,328	75,277

Insights

Potential Downgrade

Customer Collections

2-June, Week 3 Forecast

10 mins ago

Forecast downgraded in week 3

167K USD

Balance shortage expected in Canada due to predicted downtrend in collections.

Cashflow opportunities for Collections

298.8K USD

Balance shortage expected in Canada due to predicted downtrend in collections.



Supremo
BW-910643216
Sue Schmidt

199.1K USD



Acme Inc
BW-91064334
Deshawn Jones

42.2K USD



L'grande Corp
BW-910678776
Sakuko Kobia

40.5K USD

Update Forecast

More Details

...

Overview Worklist **Cash** Explorer



Family and Emergency Contact

Name

Type	Relationship
<input type="text"/>	<input type="text"/>
<small>Required</small>	<small>Required</small>
First Name	What is the start date of this relationship?
<input type="text"/>	<input type="text"/>
<small>Required</small>	
Middle Name	Gender
<input type="text"/>	<input type="text"/>
Last Name	Date of Birth
<input type="text"/>	<input type="text"/>
<small>Required</small>	
Suffix	
<input type="text"/>	

- This person is an primary contact
- This person is an emergency contact

Phone

Phone Type	Area Code
<input type="text"/>	<input type="text"/>

Updated 2 minutes ago

Cancel Save

- Personal Info
- Employment Details
- Contract Info
- Payroll Details
- Salary
- Award Compensation
- Work Relationship Info
- Add Directs
- Select Managers
- Family and Emergency Contact**
- Comments and Attachments



Hire an Employee

01

When and Why

02

Personal Info

03

Employment Details

04

Contact Info

05

Pay



**You have registered
as a new supplier.**

[View registration](#)

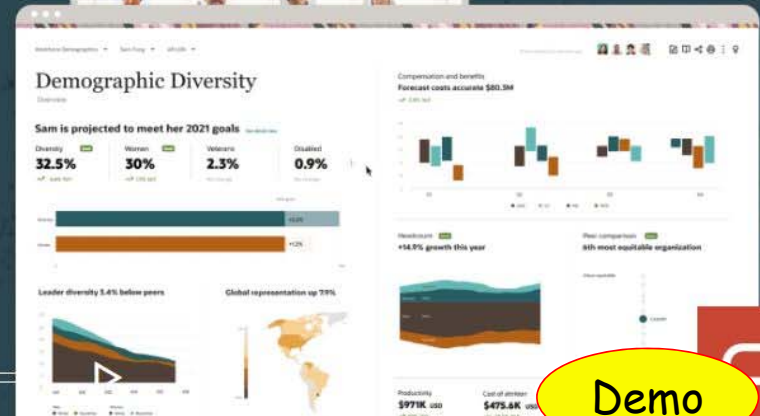
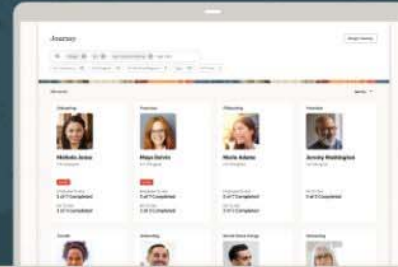
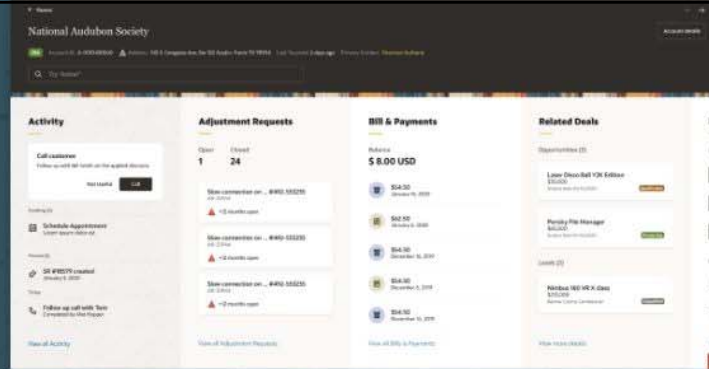


☰ Looking for the menu?

the Redwood user experience

Fall in love with Oracle one interaction at a time.

redwood.oracle.com



Demo

Redwood Quickstart Guide – in VB

- Redwood Starter App Template
 - Redwood components
 - New pages are empty
- Redwood Reference App

<https://redwood.oracle.com/?pageId=CORE07B121AA579B419FB47F8D03F6926F70&shell=getting-started>

- Your own reference app




<https://fa-ewki-saasfademo1.ds-fa.oraclepdemos.com/fscmUI/redwood/rwdref>

Welcome to the Redwood Reference App

Create and submit orders and review information about inventory.



Draft orders needing your attention

<p>F000000300000256074501</p> <p>Li Robleto</p>  <p>Draft \$6,392.00</p>	<p>F000000300000256074506</p> <p>Anthony Boone</p>  <p>Draft \$3,147.00</p>	<p>F000000300000256074511</p> <p>Dexter Petiet</p>  <p>Draft \$1,050.00</p>
<p>Edit Order</p>	<p>Edit Order</p>	<p>Edit Order</p>

Redwood Quickstart Guide – in VB

- Search for building blocks in the Component Exchange

The screenshot displays the Redwood Component Exchange interface. On the left, a sidebar titled "Components" features a search bar with "redwood" entered. Below the search bar are tabs for "Browse", "Installed", "Updates", and "Recc". A list of components is shown, including "Advanced Create and Edit Page Template", "Analytics Canvas", "Ask Oracle", and "Ask Oracle Suggestions", each with an "Install" button. The main area shows the "Page Designer" for a component named "main-employees". It has a search bar with "template" entered. Under the "Advanced" category, the "Bind Template Slot" component is visible. A "Search Exchange" button is present. Below, a "Filter" search bar is shown with a dropdown menu containing "header", "div", and "Bar Row".

Demo

Agenda

VB's Family

Visual Builder Quickstart

Redwood Quickstart

 Resources

Main Resources – at Oracle

- Live Labs
 - <https://developer.oracle.com/livelabs>
- Community
 - <https://docs.oracle.com/en/cloud/paas/app-builder-cloud/community.html>
- Cloud Customer Connect Forum
 - <https://community.oracle.com/customerconnect/>
- Blogs
 - <https://blogs.oracle.com/shay/>
- Redwood
 - <https://redwood.oracle.com>
- Docs
 - <https://docs.oracle.com/en/cloud/paas/visual-builder>

LiveLabs

The screenshot shows the LiveLabs Oracle website interface. At the top, there is a search bar with the text 'visual builder' and a search icon. To the right of the search bar are links for 'Event Code' and 'Sign In'. Below the search bar, there is a 'Clear Search & Filters' button. The main content area is titled 'Workshops and Sprints' and displays five workshop cards. Each card includes a title, a description, a duration, and a view count. The cards are: 'Create a Web Application in Oracle Visual Builder' (1 hr, 55 mins, 45512 Views), 'Create a Mobile Application in Oracle Visual Builder' (1 hr, 20 mins, 8437 Views), 'Create a Web Application in Oracle Visual Builder Studio' (2 hrs, 5403 Views), 'Extend Oracle Cloud Apps with Visual Builder Studio' (18 mins), and 'Building Redwood Application Experiences with the Oracle Applications Platform' (1 hr, 3352 Views). On the left side, there are filter options for 'Sort By' (Most Popular), 'Number of Workshops: 4', 'Level' (Beginner (3), Intermediate (1), Advanced), 'Workshop Type' (Paid Credits (4), Run on LiveLabs, Sprints, Run on Gov Cloud, ADB for Free), and 'Workshop Series'.

LiveLabs

visual builder

Event Code Sign In

Clear Search & Filters

Workshops and Sprints

Sort By
Most Popular

Number of Workshops: 4

Level

- Beginner (3)
- Intermediate (1)
- Advanced

Workshop Type

- Paid Credits (4)
- Run on LiveLabs
- Sprints
- Run on Gov Cloud
- ADB for Free

Workshop Series

Create a Web Application in Oracle Visual Builder

Learn how to develop a web application that displays a user interface through which users can view, (..)

1 hr, 55 mins 45512 Views

Create a Mobile Application in Oracle Visual Builder

Explore how to develop a mobile application that displays a user interface to view, edit, and (..)

1 hr, 20 mins 8437 Views

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Explore how to develop and deploy a modern web application within minutes in an agile environment.

2 hrs 5403 Views

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See how you can extend Oracle Cloud Applications using Oracle Visual Builder Studio

18 mins

Building Redwood Application Experiences with the Oracle Applications Platform

Building Redwood Application Experiences with the Oracle Applications Platform

1 hr 3352 Views

<https://apexapps.oracle.com/pls/apex/dbpm/r/livelabs/home>

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Your Experts



Shay Shmeltzer @ShayOracle

Shay is Director of Product Management for Oracle Cloud Development Tools. He is focused on helping developers simplify and streamline their work leveraging Oracle solutions. Shay frequently presents at industry events, publishes many articles, and regularly blogs and share YouTube based tips.



Tara Van Cleave

Tara helps Oracle developers, product managers and developer advocates educate our users about Oracle technology.

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Visual Builder

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Overview **FAQ**

Visual Builder features

- Oracle Cloud Applications-ready**
 - Simple and powerful application building
 - Works with multiple sources of data
 - Create applications that can be accessed
- Oracle Cloud Applications-ready**
 - Service Catalog**
Easily access business objects from Oracle Cloud Applications in your applications.
 - Use Oracle Application service catalogs**
Quickly access and build using business objects from all of your Oracle Cloud Applications.
 - [See a demo \(6:36\)](#)
- Extend Oracle Cloud Applications**
Embed your applications as custom tabs within Oracle Cloud Applications, or as menu options that link to external applications.
- Single sign-on access**
Leverage the same users and roles as Oracle Cloud Applications in your extensions—without the need for a separate login.

Demo

<https://www.oracle.com/application-development/visual-builder/>

Summary

- Oracle's current development toolset has specific audiences
- Visual Builder provides a declarative and visual way to define sophisticated features to your JavaScript app
- Visual Builder Studio gives you access to CI/CD functions
- Oracle Redwood supplies templates and high-level composite components
- All of this is **much more productive** than rolling your own JavaScript app



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