

ORACLE



Modernizing Forms with Low Code



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Forms Modernization

Modernization Paths

About Oracle Forms

File Edit Default TAR Help
TAR# 11409852.60 Technical Assist
-----<Customer> --Country-US - Typ
Spt Code^ Level GLD
Customer^
Behalf
Contact1^
Phone^ x TZ -01
Fax Email @
Contact2
Phone x
Abstract^ PROFILE OPTION JGZZ: LOCALIZATI
<Main> - (Re-Query) (Profile) (
Local Q^ GOLDGL Change Da
Global Q GQFINAP Days
-----Userid-----
Esc Lvl Created
Esc To Updated ASPECT.US
Escalated

ITS402 V1.4.0.1 User logged

OASIS Version 4.1.00 (OFACS) - [Entry Review Grab Bag Inbox]
File Edit View Add Action District National Reference Products Admin User Opts Window Help
Help Home Personal Avail Wk GB Approve Log Sort Proceed NextStep Defranch

Entries To Be Reviewed (Grab Bag)

Entry / Doc / Line / (Suffix)	Work Type	Date	Description
BYC-795783-2/011/052	QAV	05-20-2002	Priority Review Recom by
BYC-1127783-2/001/002	QAV	05-20-2002	Priority Review Recom by C
WBK-442387-2/003/006	QAV	05-20-2002	Priority Review Recom by C
BYC-8276423-8/004/090	QAV	05-20-2002	Priority Review Recom by C
WBK-2948539-5/044/038	QAV	05-20-2002	Exam Recom by OASIS;Itah
WBK-9828238-2/009/023	QAV	05-23-2002	Exam Recom by OASIS;Net
BYC-2043079-7/005/002	QAV	05-23-2002	Exam Recom by OASIS;Net
BYC-03702994-9848/893/3	QAV	05-23-2002	Exam Recom by OASIS;Net

* paper entry

Route To

Employee Name

- Banks, Scott
- Williams, William
- Miller, Jennifer
- Smith, Joe
- Lee, Daniel

Record: 1/7 <OSC> <DBG>

File Edit Sort By Query Settings Help Window

Orders and Items

☒ Immediate ☐ Auto Query

Stock Image On Help Exit

Order Id 100

Order Information

Date Ordered 31-AUG-1992 Customer Id 204 Customer Name Womansport

Sales Rep Id 11 Sales Rep Name Magee

Date Shipped 10-SEP-1992 ☐ Cash ☒ Credit ☒ Order Filled

Bunny Boot

Item Id	Product Id	Description	Price	Qty	Shipped	Item Total
1	10011	Bunny Boot	135	500	500	67,500.00
2	10013	Pro Ski Boot	380	400	400	152,000.00
3	10021	Bunny Ski Pole	14	500	500	7,000.00
4	10023	Pro Ski Pole	36	400	400	14,400.00

Order Total 601,100.00

Character Mode
SQL*Forms

Client Server

Web based – Java front-end



Common Questions

Is Oracle Forms going away?

No, Forms is here to stay.



Oracle Forms & Reports 12.2.1.4 now has Premier Support till Dec 2023

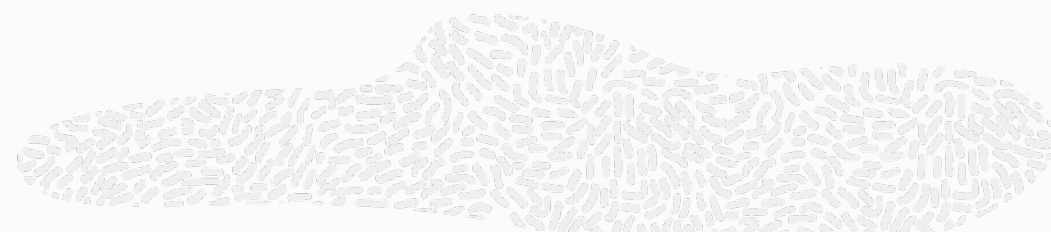
Oracle Forms continues to be a core component in many Oracle products such as the following:

- Oracle E-Business Suite
- Oracle Utilities
- Oracle Retail
- Oracle LifeSciences
- Oracle Hospitality
- Oracle Insurance

Common Questions

Is Oracle Reports going away?

Oracle Reports has been Deprecated but still available



In the release note of Fusion Middleware 12c Release 12.2.1.3.0, a [Deprecation Notice for Oracle Reports](#) was given.

Around this time the **license entitlement** for Oracle "**Forms and Reports**" and "**Internet Developer Suite**" were **revised to include Oracle Analytics Publisher** (formerly BI-Publisher) as a replacement for Oracle Reports.

Oracle Reports is still **available** in the Fusion Middleware Release **12.2.1.4.0** and **are planned to be released in the next release.**

Oracle Forms & Reports Support Time Lines

Oracle Fusion Middleware Releases – 12c

Release	GA Date	Premier Support Ends	Extended Support Ends	Sustaining Support Ends
Fusion Middleware 12c (12.1.x) ¹	Dec 2011 - Feb 2015	Dec 2017	Dec 2019 ²	Indefinite
Fusion Middleware 12c (12.2.x) ³	Oct 2015 – Apr 2016	Dec 2023 ^{4, 5}	Aug 2025 ⁵	Indefinite

³ Includes the following: WebLogic Server, Coherence, TopLink, HTTP Server, WebLogic Server Proxy Plug-In, Traffic Director, Business Intelligence Suite, SOA Suite, Real-Time Integration Business Insight, Business Process Management, MapViewer, B2B and Healthcare, Service Bus, Stream Analytics (Formerly Stream Explorer/Event Processing), Managed File Transfer, Data Integrator, Enterprise Data Quality, JDeveloper and Application Development Framework, **Forms and Reports**, WebCenter Portal, WebCenter Content, and WebCenter Site and Enterprise Metadata Management.

Common Questions

Is 12c (12.2.1.4) the last
release of Oracle
Forms?



**No, the next release
is planned.**

View the [Oracle Forms Statement of Direction](#) for current release details.


The Roadmap includes:

- UI enhancements to create forms with a look & feel similar to Web apps
- Enhancements for accessing REST data
- Better provisioning options in the Oracle Cloud
- Improved Integration with Visual Builder Studio (Developer Service)

Common Questions

Our Oracle Forms and Reports are old, what should we do?

Stay current by Upgrading.



New versions of Oracle Forms have been released providing many enhancements and features, including a simplification to the Upgrade processes.

The Oracle Forms Migration Assistant supports the upgrade process.

Upgrade from:

- **6.0.8 (6i) through 12**

Common Questions

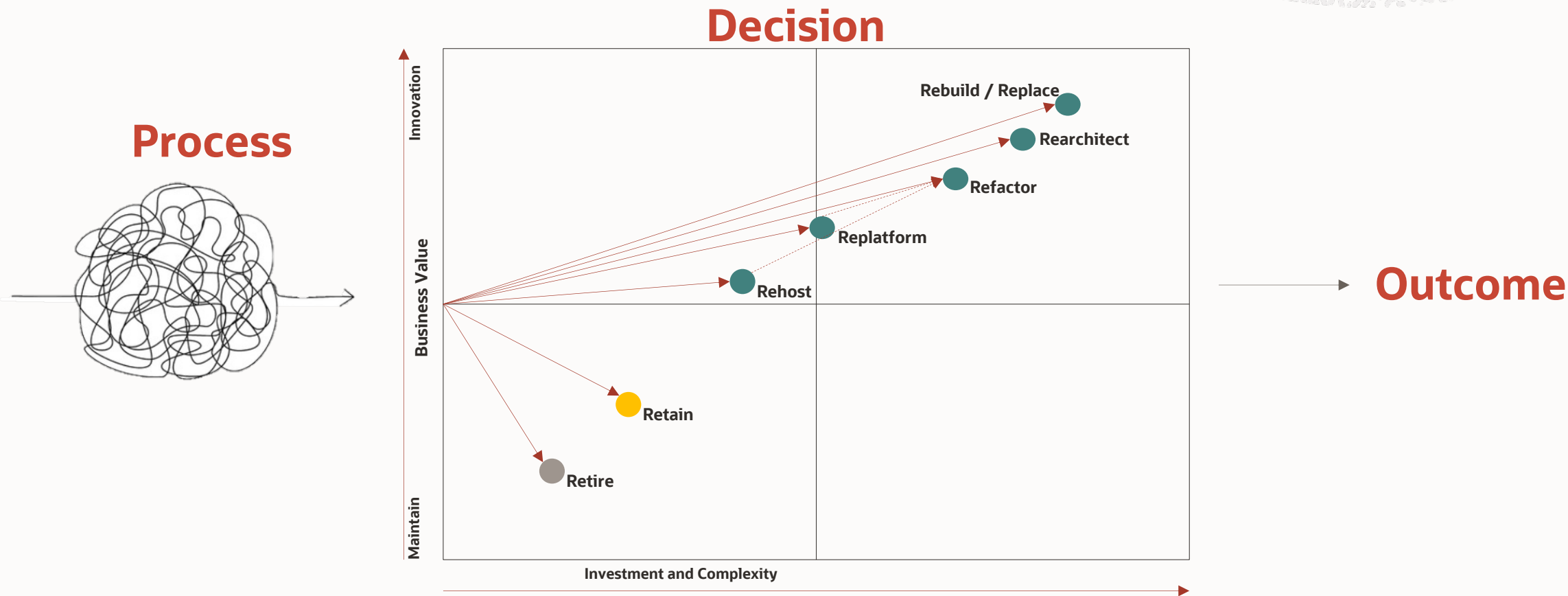
Is migrating from Oracle Forms the cheaper option to modernization vs. Upgrading?



No, Upgrading is the easiest and cheapest option to modernizing Oracle Forms.

Implementing the latest features while maintaining previous investments

Forms Modernization



Forms Modernization - Practical



Upgrade Forms

Modernize your existing Forms applications adding latest features



Replatform to Cloud

Run your Forms and Database environment on Oracle Cloud

- Oracle Forms Marketplace [BYOL]
- Oracle WebLogic Suite Marketplace [UC or BYOL]



Advanced CI/CD

Automate your Forms deployments with Visual Builder Studio



Modernize with APEX

Redevelop (part of) your application with APEX

Replace with Visual builder

Redevelop your application with Visual builder

Forms on Oracle Cloud – Technical options

WebLogic Marketplace [UC or BYOL]

Automated WLS provisioning

- Configurable deployment with standard Terraform scripts
- Configurable Domain architecture
- 3-tier application deployment on OCI
- Vault management of Credentials

Limitations

- No Forms server binaries included
- Manual installation of Forms is required on all WebLogic Marketplace images

Oracle Form Services Marketplace [BYOL]

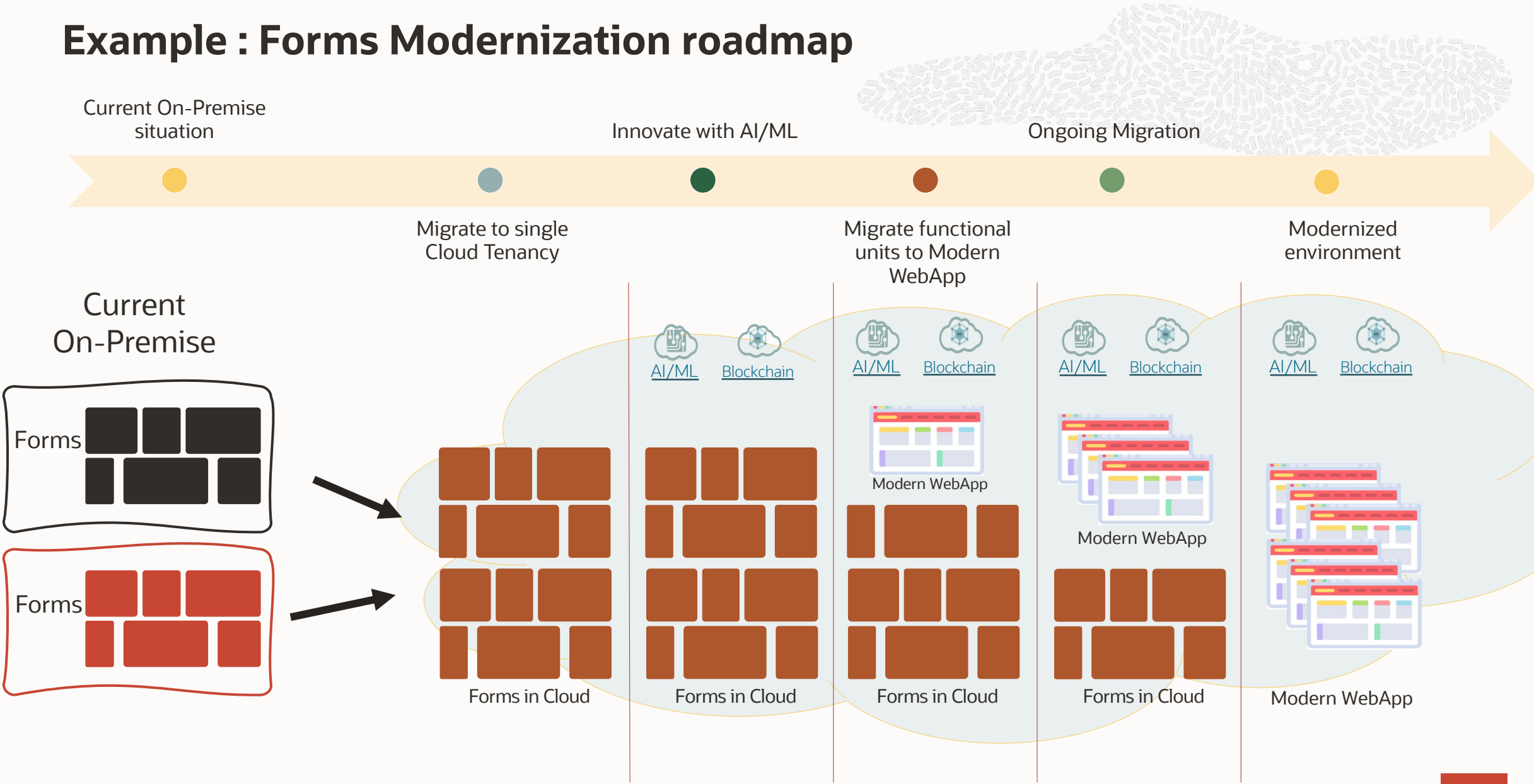
Automated Form Server provisioning

- Available as BYOL only
- Includes local Oracle database but can be configured to use a remote database or DBCS
- Scripted configuration of Forms services
- Includes Form & Report binaries

Limitations

- Single Node, no clustered configuration OOTB
- No added operational efficiency

Example : Forms Modernization roadmap



Oracle Visual Builder

About Oracle Visual Builder

Oracle Visual Builder

Create amazing, app store quality applications on any device.
Driving innovation, productivity and growing revenue



Quick Overview

No coding required

SaaS or On-premises, connect to any backend systems with REST

Drag and Drop Visual Development

Access to auto-generated code

Deploy on-device to Apple and Android platforms

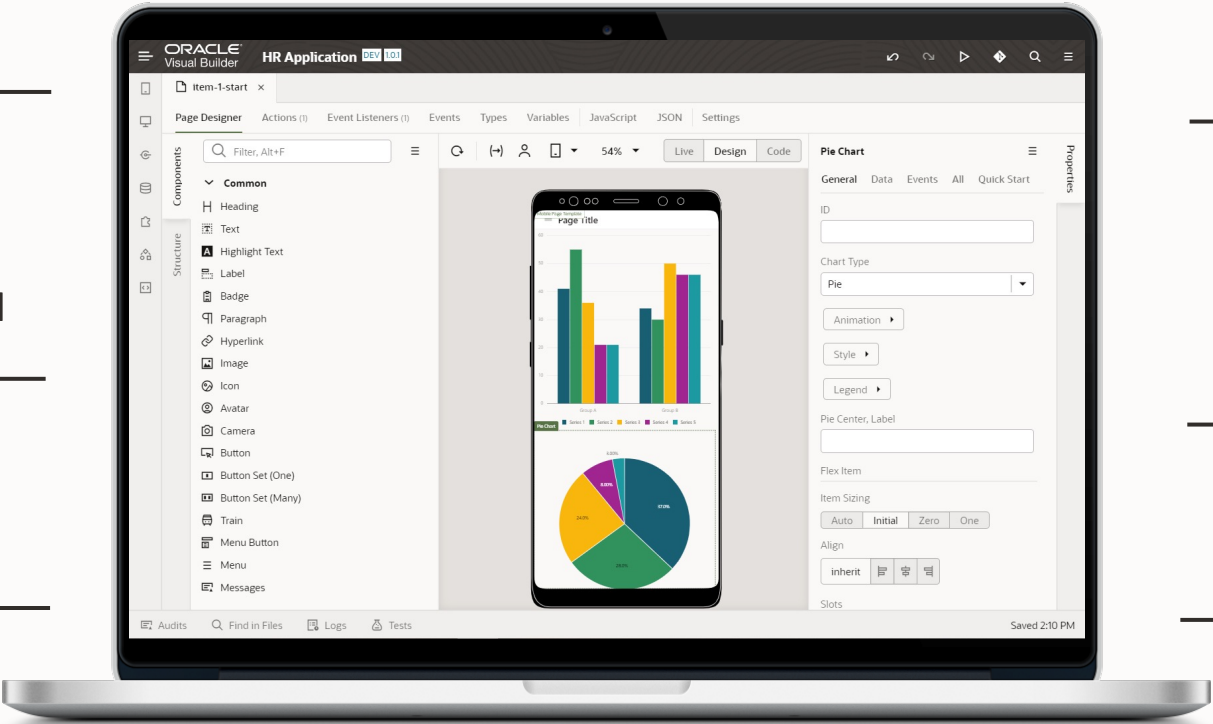
Rich library of web components

Native look and feel iOS and Android

Build complex multi-screen apps

In-browser app preview

Browser based environment



Key Features of High Productivity Platforms

VISUAL DEVELOPMENT

Manage Application Data

Development ▾



Import from Live

Replace all the data in Development with the data from your Live database.



Import from Staging

Replace all data in Development with the data from your Staging database.

Application not Staged



Import from File

Replace all data in Development with the data from a file, CSV file or Excel spreadsheet.



Last import Monday at 9:36:15 AM



Edit Data in Excel

Download an Excel add-in to edit business object data in Excel spreadsheets (for Windows OS only).



Service Connections

Create Service Connections to consume existing REST endpoints provided by a service and use them in your applications



Mobile Apps

Create native mobile applications that make use of features on mobile devices



Business Objects

Create Business Objects to define custom REST endpoints for your database based on the needs of your applications



Web Apps


Create modern web applications that run in browsers on desktop and mobile devices


Key Features of High Productivity Platforms


VISUAL DEVELOPMENT


INTEGRATION


ERP Connectivity



ERP Cloud



NetSuite



EPM Cloud



Utilities Cloud



Logistics Cloud



ORACLE E-Business Suite


ORACLE JD Edwards



SAP S/4 HANA



SAP Ariba



Concur



QuickBooks


CX Connectivity



Sales Cloud



Commerce Cloud



CPQ Cloud



Service Cloud



Eloqua



salesforce



Respondys


Field Service Cloud



Monetization Cloud



Policy Automation


servicenow



HubSpot


RPA Connectivity



UiPath



AUTOMATION ANYWHERE


Technology Connectivity



REST


FTP



API


SOAP


FILE



JMS


Create Your Own Adapter





Create your own adapter with the Zero-code adapter builder


Productivity and Social Connectivity



Dropbox



GoToMeeting



box



Google Calendar



twilio



DocuSign



facebook



slack



twitter



Eventbrite



amazon S3



Gmail



Trello



Basecamp



MailChimp



JIRA



asana

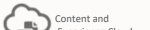

Adobe Sign


LinkedIn


EVERNOTE


Office 365



SurveyMonkey


Content and Experience Cloud

Oracle Integration Cloud

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March, 2021



Key Features of High Productivity Platforms

**VISUAL
DEVELOPMENT**

INTEGRATION

**INSTANT
DEPLOYMENT**

Name ↑↓	Status ↑↓	Origin	Version ↑↓	Recent activity ↑↓	
COVIDSample	{ }Development	Visual Builder	1.0	Tuesday at 12:04:37 PM	⋮
HR Application	🟢Live	Visual Builder	1.0	Monday at 11:47:23 AM	Open Duplicate Rename
certify_origins	🔗Stage	Visual Builder	1.0	2/17/2021	Export Import New Version Settings Stage Delete



Key Features of High Productivity Platforms



Visual development experience



Cloud based – zero infrastructure



Integrated database



Web, PWA, an Appstore mobile apps



Easy publishing lifecycle



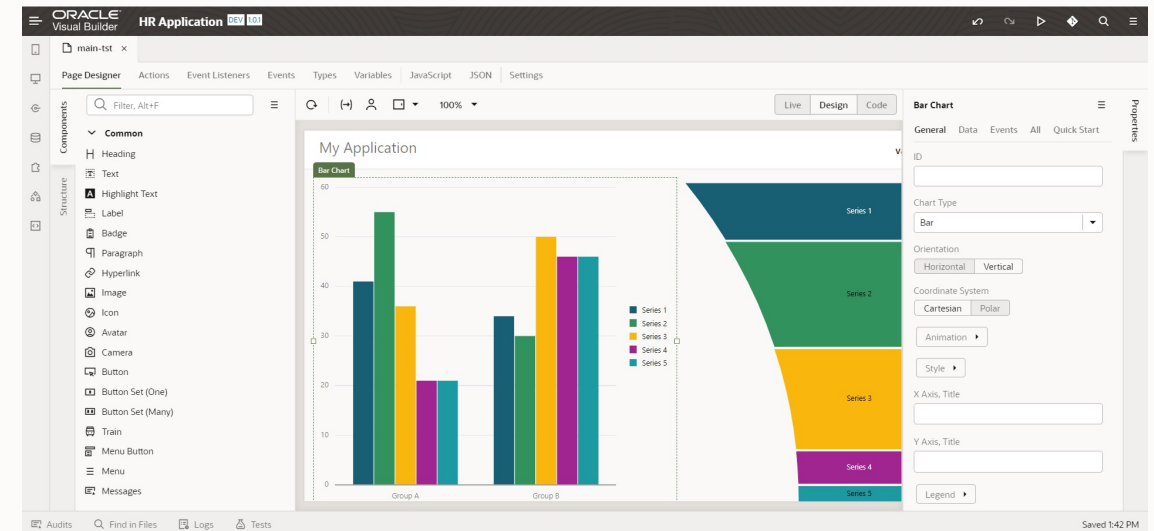
Multiple developers + DevCS/GIT



Built-in Security



Extensible and Flexible



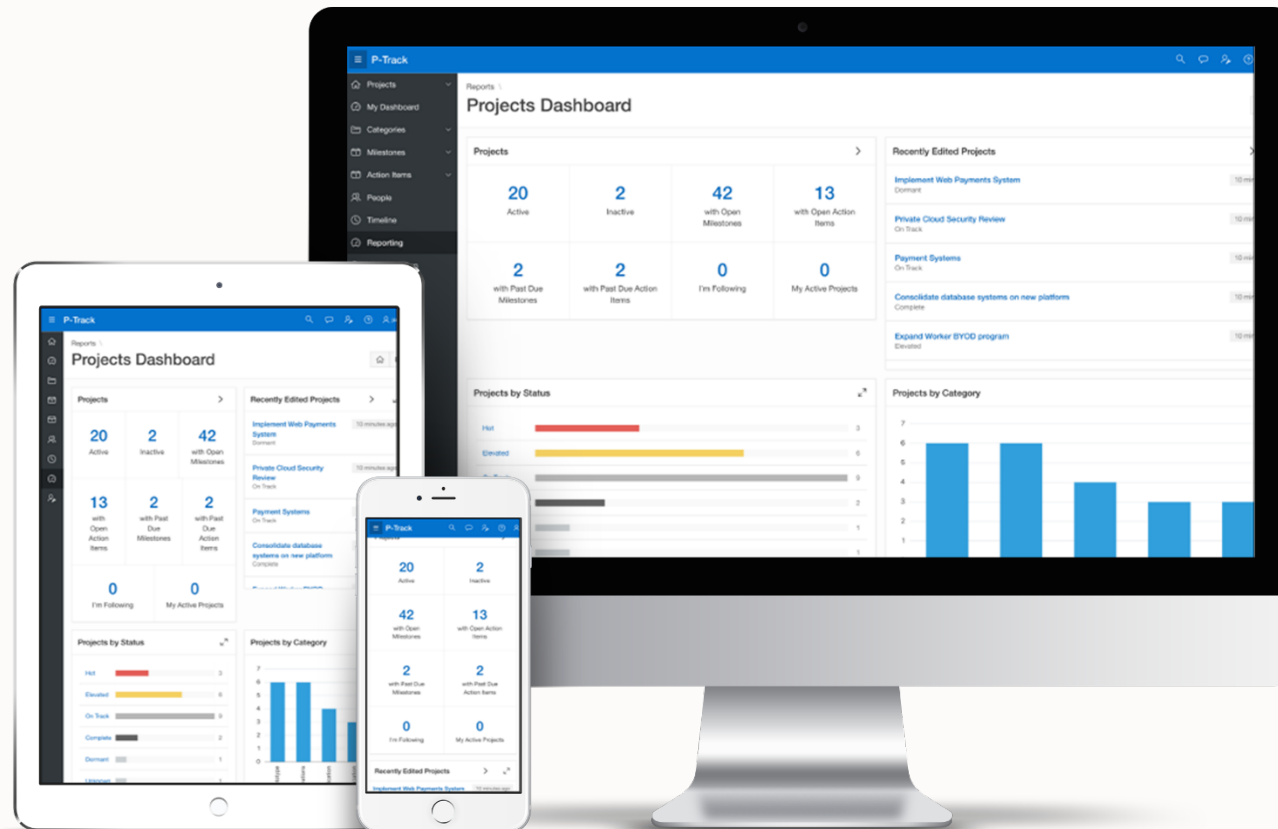
Oracle APEX

About Oracle APEX

Oracle APEX– Low Code Development

Build enterprise apps 20x faster with 100x less code.

Deploy scalable & secure apps with world-class features anywhere.



Low-Code Benefits

**Less coding
and
Easy to learn**



**Faster app releases
with
minimal investment**



High productivity



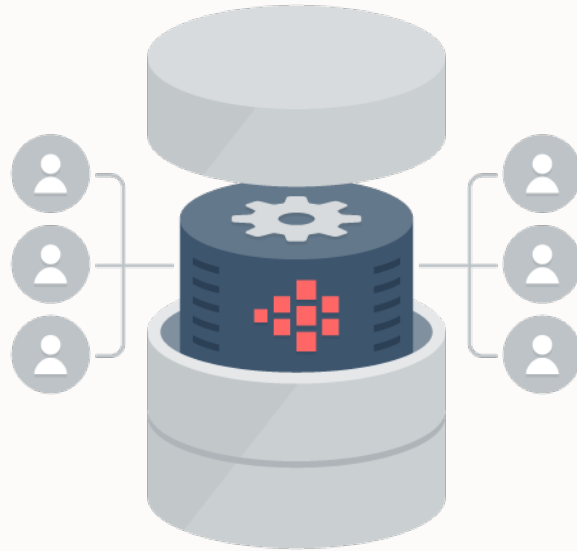
**Concentrate on
business
requirements**

Distinguishing Characteristics



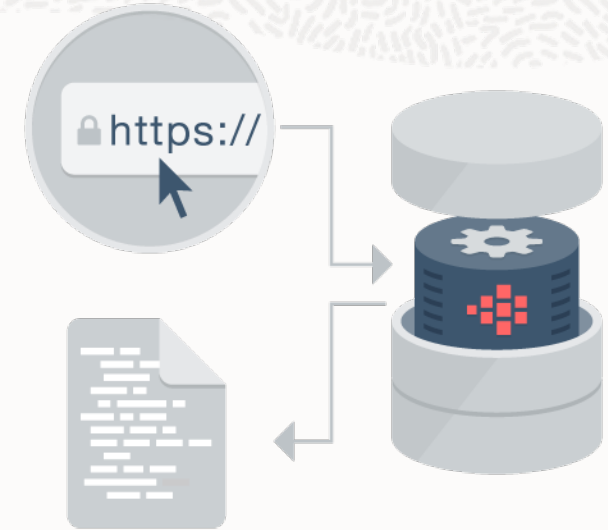
App Development IDE is **browser based**.

**No client software
needed**



App definitions are stored in the database as **meta data**.

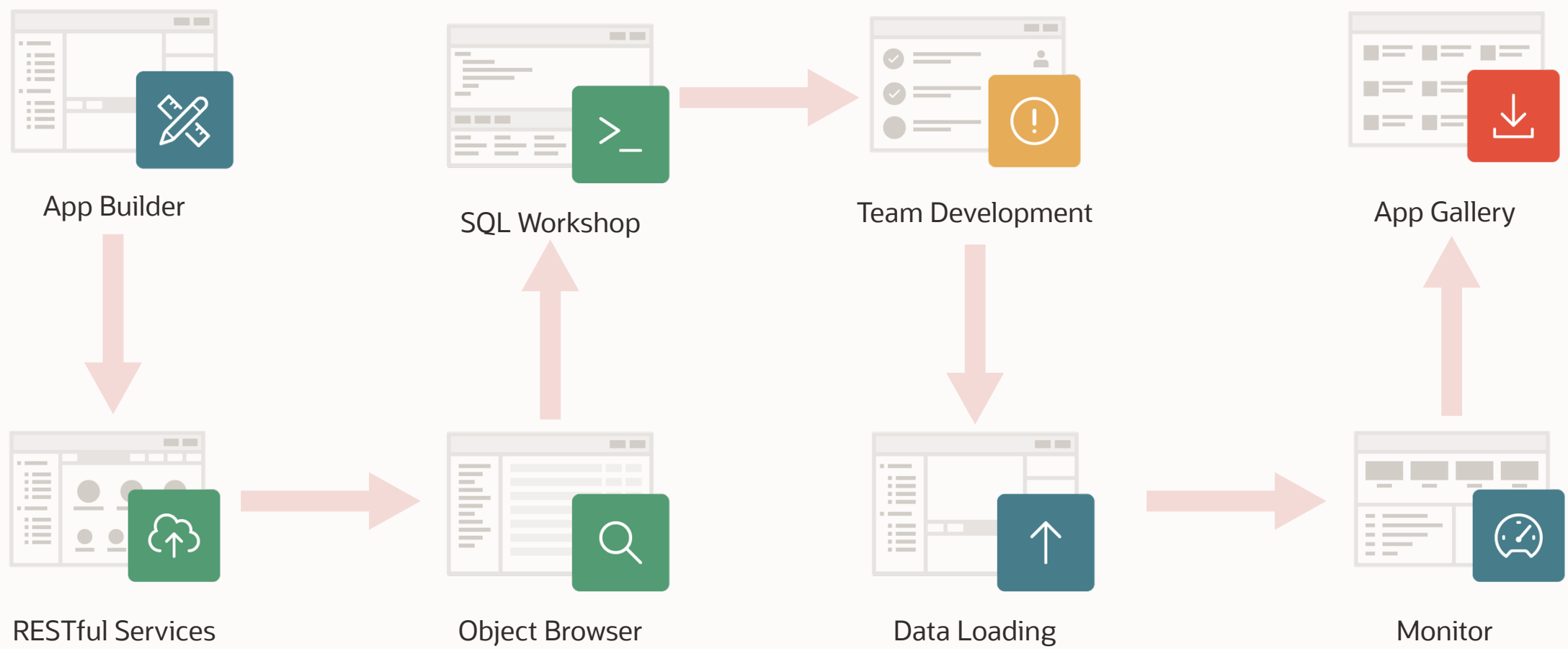
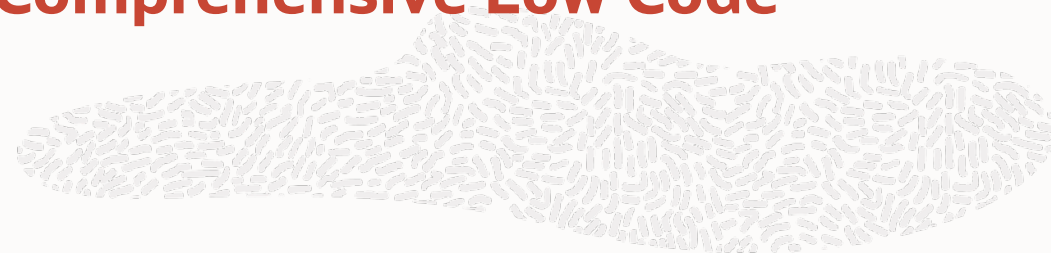
**Declarative – No code
generation**



Zero latency access to your data

**Data processing done
in the Database**

Oracle APEX Application Development – Comprehensive Low Code Platform

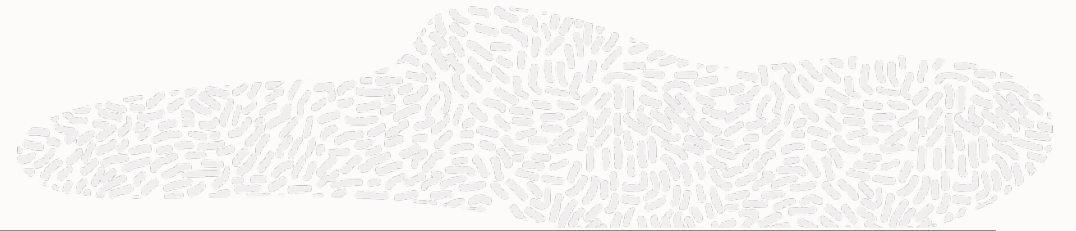


Oracle Forms to Oracle APEX Benefits



- ✓ **Database –centric** development
- ✓ Primarily coded in **SQL** and **PL/SQL**
- ✓ **Low-Code**, declarative platform
- ✓ Leverage **all database benefits** and features
- ✓ **Simple Architecture** that scales with the database

Oracle Forms to Oracle APEX Differences



Oracle Forms	Oracle APEX
On Premise Only	On Premise, Autonomous DB, APEX Developer Service
Requires full WebLogic Server	Requires Oracle REST Data Services, can run on WLS
Requires browser plug-ins or Java Web Start	Any modern web browser
Generates files	Metadata based
Suitable for desktops only	Runs on any device (zero development effort)
Difficult to style	Out of the box theming and theme styles

Oracle APEX Advantages



- ✓ **Easy to train** Forms Developers, key similarities
- ✓ **Re-use** all existing Database Objects
- ✓ Can **co-exist** with Oracle Forms
- ✓ **Flexibility** in platform for development / deployment
- ✓ Rapid, **low-code**, modern responsive UI
- ✓ **100% Browser** based development
- ✓ Interpreted model, no need to compile code, just **Save & Run**
- ✓ **Large Community** of highly skilled Developers and Partners

Journey to Oracle APEX



- ✓ Push as much business logic into the Database as possible
- ✓ Identify a suitable functional area as Proof-of-Concept
- ✓ Review how APEX Consulting Companies may add value
- ✓ Train developers in APEX
- ✓ Secure SMEs for functional input and reviews



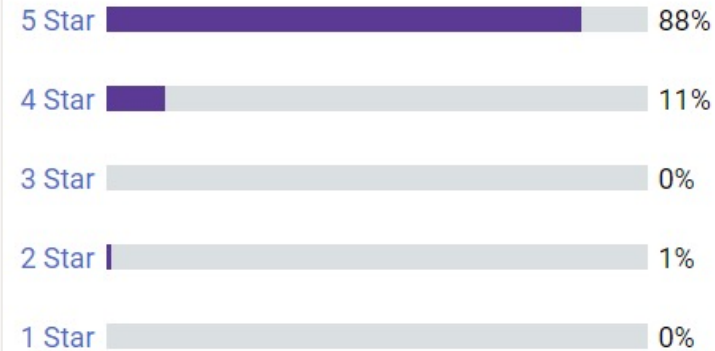
Application Express (APEX) Ratings Overview

☒ Reviewed in Last 12 Months [EMAIL PAGE](#)

4.9 ★★★★★ 80 Reviews (Last 12 Months)

96% Would Recommend

Rating Distribution



Distribution based on 80 ratings ⓘ

Customer Experience



[All User Ratings](#)

Highest Rated Low Code Platform with 96% 5 Star Reviews

Application Express (APEX)

★★★★★

Jan 21, 2021

Reviewer Role
Consultant

Company Size
3B - 10B USD

Rapid Development and User friendly environment

— Oracle Developer in the Manufacturing Industry

End users experience rate excellent for the responsiveness of application, from the developer perspective requires graphical representational region to be more advance.

[READ FULL REVIEW](#)

Application Express (APEX)

★★★★★

Jan 24, 2021

Reviewer Role
CTO

Company Size
Gov't/PS/ED <5,000 Employees

Oracle Apex A best Solution for future development strategy.

— Expert Oracle Database Administrator & Oracle Apex Developer in the Education Industry

Oracle Apex the best solution for a long development strategy, and it given you a low code features and full support for any issues you can face during the development process. Let me concentrate just for development via oracle apex, why, because you don't need to make any API by another development languages. All in one solution.

Application Express (APEX)

★★★★★

Jan 12, 2021

Reviewer Role
Enterprise Architecture and Technology Innovation

Company Size
<50M USD

Low Code is the Future

— Senior Software Engineer in the Miscellaneous Industry

Amazing low code platform for enterprise applications. The ability for the platform to seamless generates beautiful UI/IX is amazing.

[READ FULL REVIEW](#)

Demo Overview steps

File Edit Sort By Query Settings Help Window

Orders and Items

☒ Immediate ☐ Auto Query

Stock Image On Help

Order Id 100

Order Information

Date Ordered 31-AUG-1992 Customer Id 204 Customer Name Womansport

Sales Rep Id 11 Sales Rep Name Magee

Date Shipped 10-SEP-1992 ☐ Cash ☒ Credit ☒ Order Filled

Item Id	Product Id	Description	Price
1	10011	Bunny Boot	135
2	10013	Pro Ski Boot	380
3	10021	Bunny Ski Pole	14
4	10023	Pro Ski Pole	36

Oracle Forms

Order Information

Order Id 1952

Order Datetime 12/14/2021

Customer Scotty Goffredo

Store Online

Order Status

☐ Cancelled ☐ Refunded ☐ Complete

☒ Open ☐ Paid ☐ Shipped

<input type="checkbox"/>	<input type="checkbox"/>	Item Id	Product Id	Unit Price	Quantity	Item Total
<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Boy's Socks (White)	\$12.64	10	\$126.40
<input type="checkbox"/>	<input type="checkbox"/>	2	Men's Shorts (Black)	\$10.33	1	\$10.33
<input type="checkbox"/>	<input type="checkbox"/>	3	Women's Skirt (Green)	\$5.65	4	\$22.60

1 rows selected

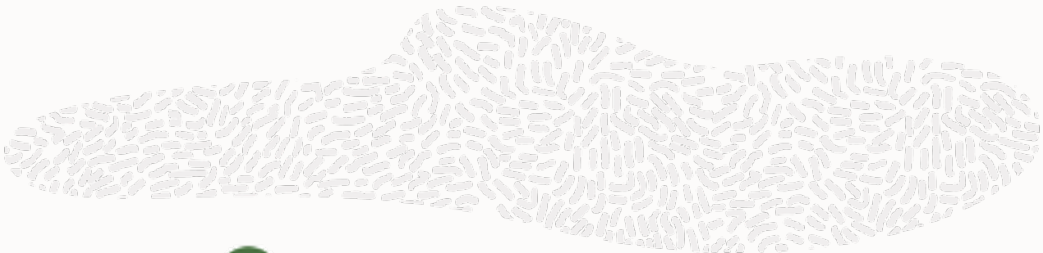
Total 3

Order Total \$159.33

Oracle APEX



Oracle Development Tool offerings



Skills Needed	SQL, PL/SQL	JavaScript, REST
Development / Deployment	Oracle Cloud, On-premises, 3 rd Party Cloud	Oracle Cloud
Primary Use Case	Data-driven App Dev	Oracle SaaS Extensions
Data Access	SQL, REST, SOAP	REST
Architecture	Model Interpreter	Code Generator (JET)
Maturity	15+ years in Market	4+ years in Market
Designed for	Database and SQL-savvy developers	JavaScript-savvy developers



Forms Modernization Options



Upgrade Forms

Modernize your existing Forms applications adding latest features



Replatform to Cloud

Run your Forms and Database environment on Oracle Cloud

- Oracle Forms Marketplace [BYOL]
- Oracle WebLogic Suite Marketplace [UC or BYOL]



Advanced CI/CD

Automate your Forms deployments with Visual Builder Studio



Modernize with APEX

Redevelop (part of) your application with APEX

Replace with Visual builder

Redevelop your application with Visual builder

Future Session <http://bit.ly/AppDevWebcast>



- **Jan 2022:** Moving an Java EE to Kubernetes with a WKT UI tool
- **Feb 2022:** Developing Microservices with Helidon and Coherence
- **March 2022:** DevOps & Verrazzano Update and Deep Dive Demo
- **April 2022:** Applications High Availability and Disaster Recovery Strategy
- **May 2022:** Manageability, Patching and Upgrading you Platform and Applications
- **June 2022:** Best practise in securing your Platform and Applications



Q & A
Thank You!



ORACLE