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ORACLE

Modernizing Forms with Low Code

Sid Joshi

Director of Product Management
Enterprise Cloud Native Java

www.linkedin.com/in/sid-joshi
@SidJoshi_uk

Jan Leemans

EMEA Director
Technology Software Engineering

www.linkedin.com/in/janleemans1
@JanLeemans

Menno Hoogendijk

Principal Member of Technical Staff
Oracle APEX Team

www.linkedin.com/in/mennooo
@mennooo

Forms Modernization

Modernization Paths

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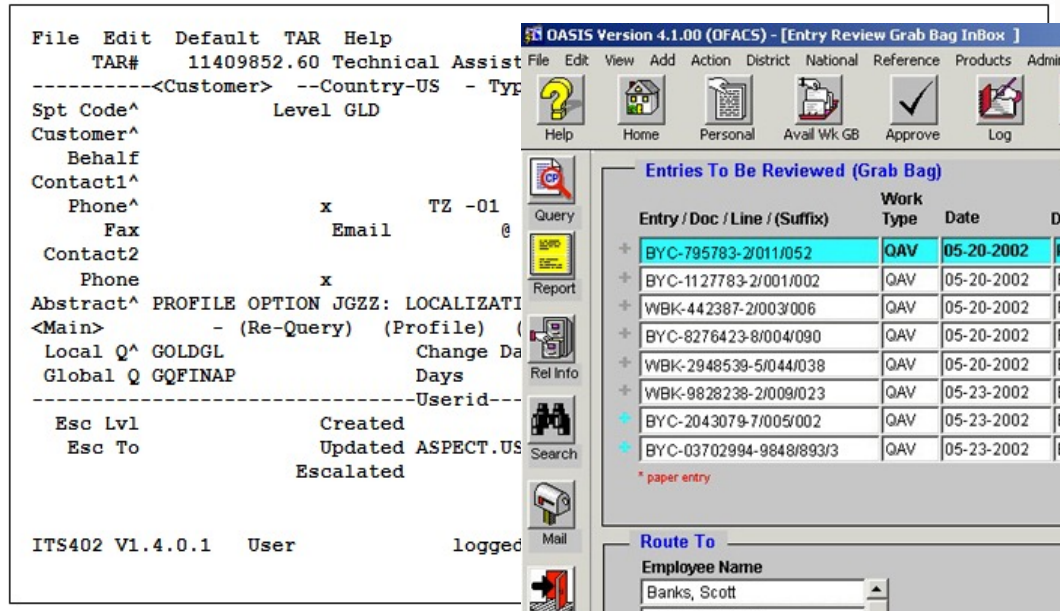
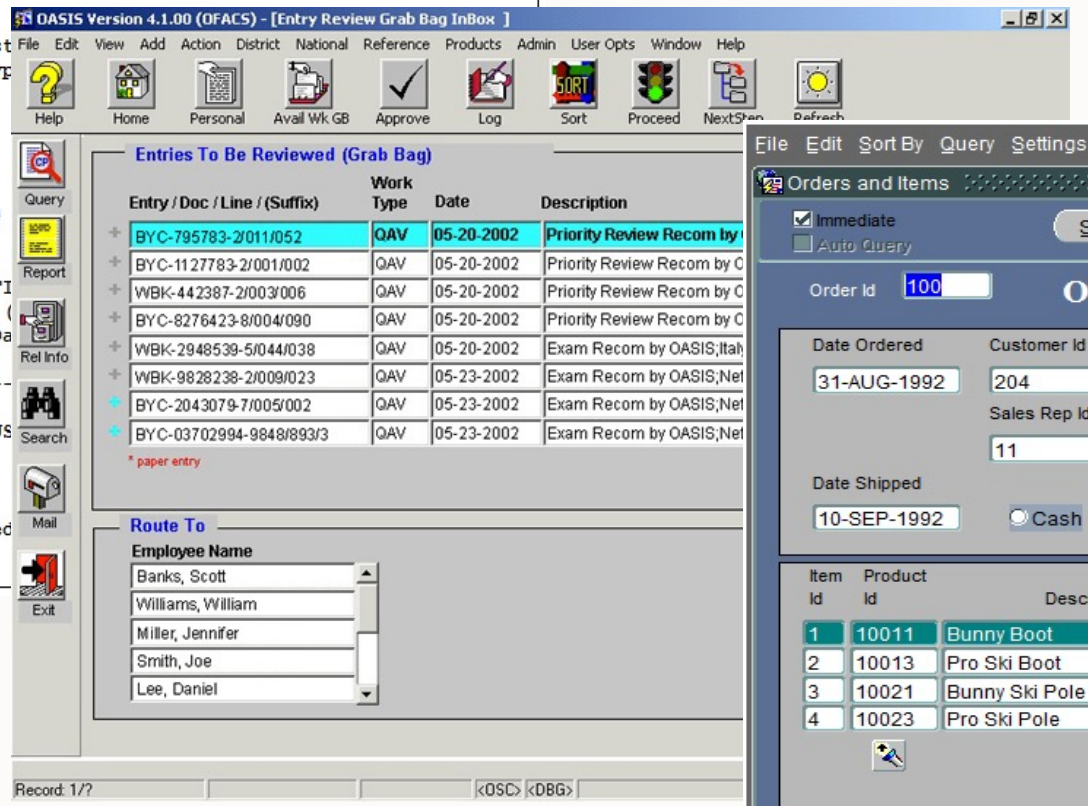
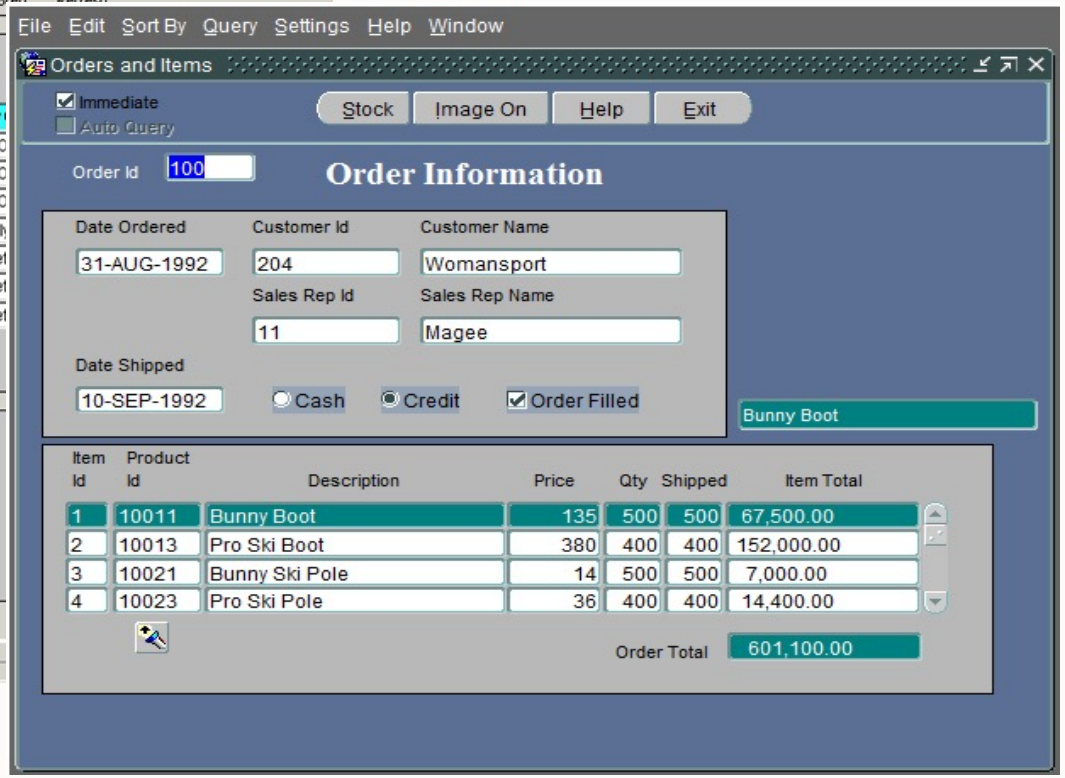
About Oracle Forms



Character Mode
SQL*Forms



Client Server



Web based – Java front-end

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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

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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.**

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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.

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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)

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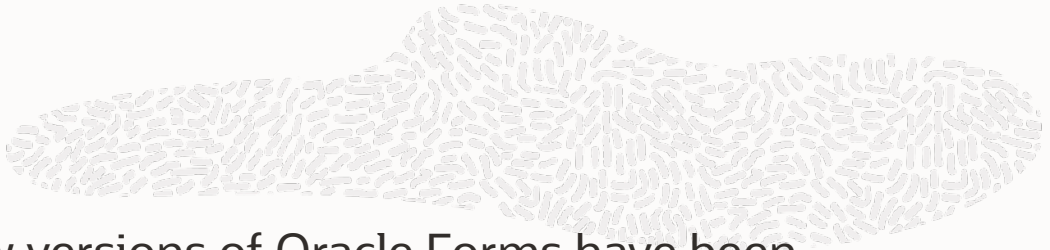
Common Questions



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**

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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

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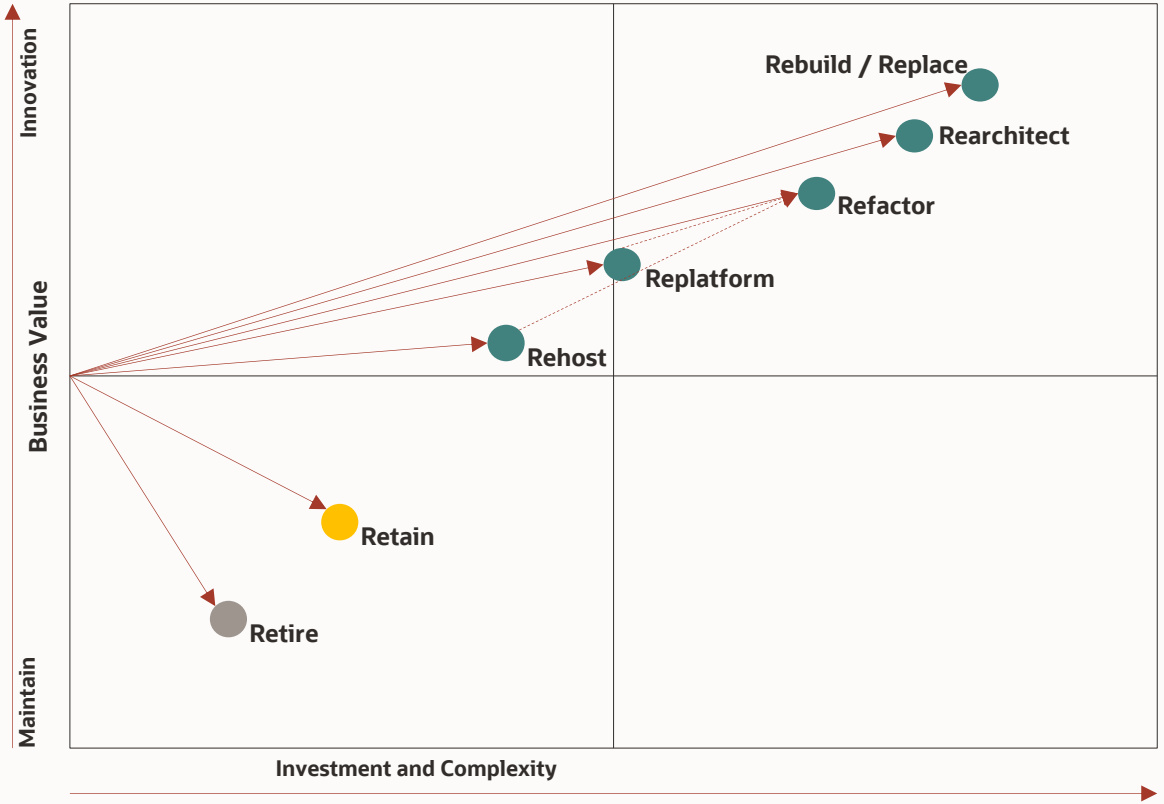
Forms Modernization

Process

Decision



Outcome

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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

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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

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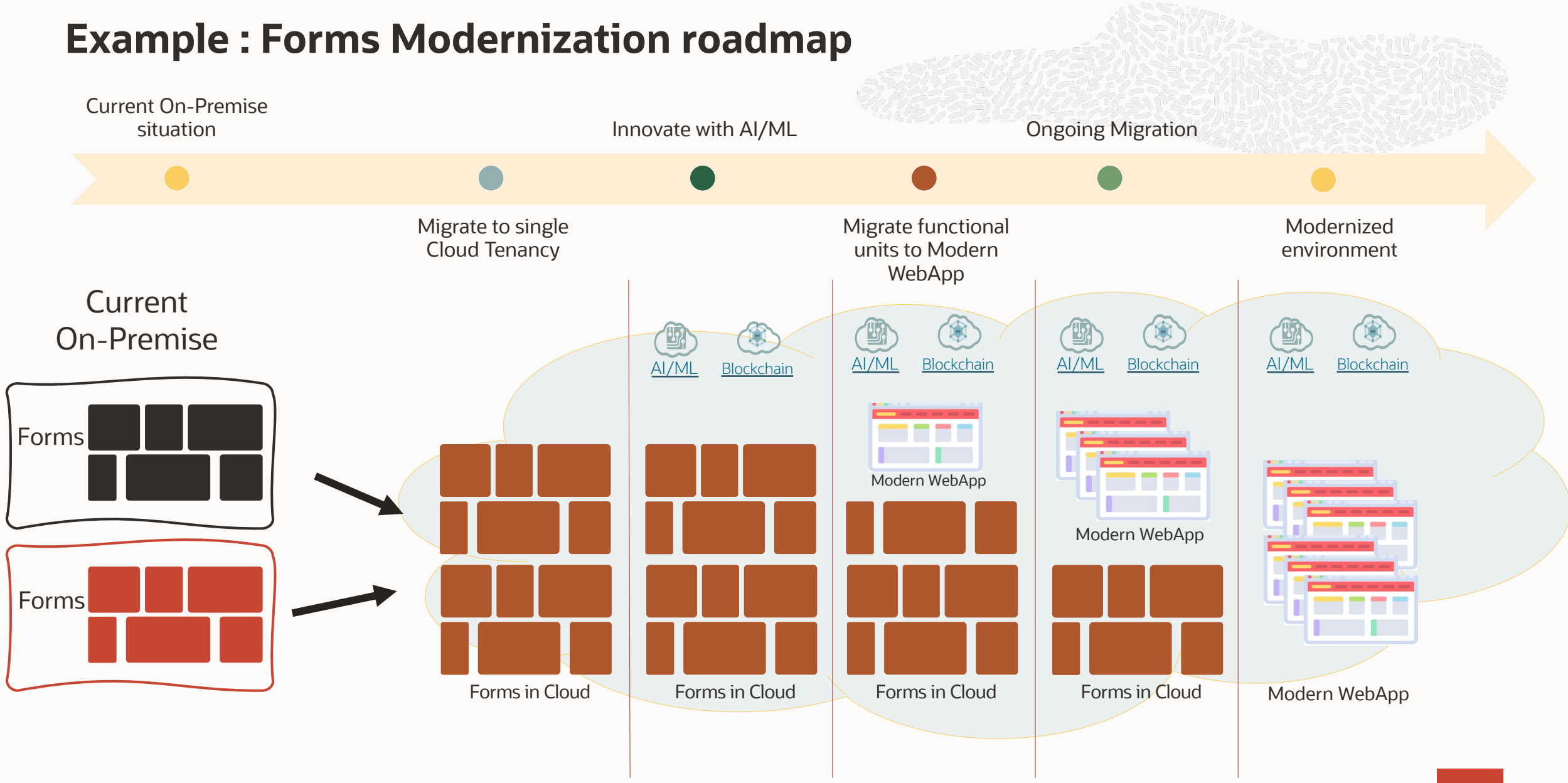
Example : Forms Modernization roadmap



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Oracle Visual Builder

About Oracle Visual Builder

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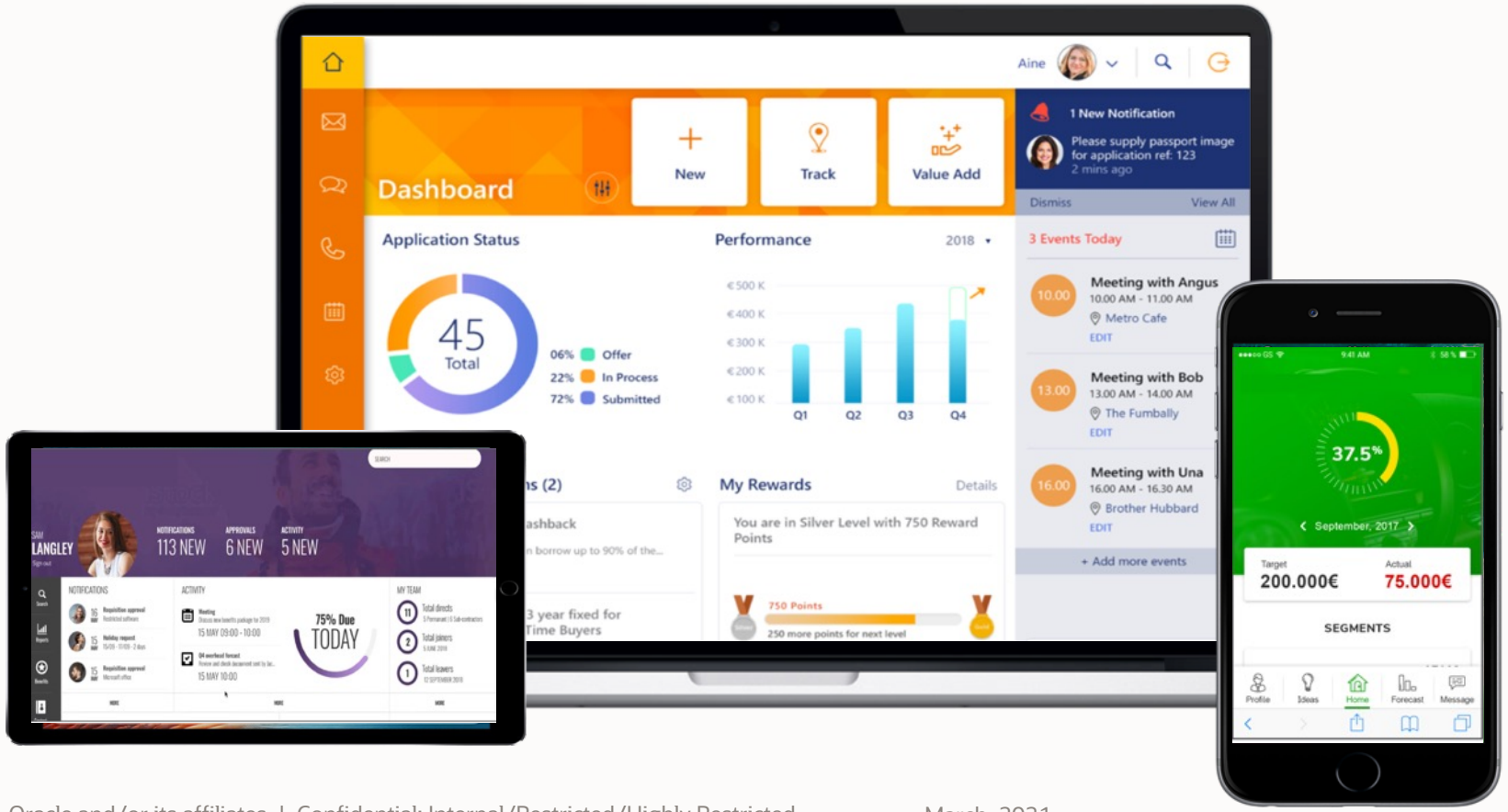
Oracle Visual Builder

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



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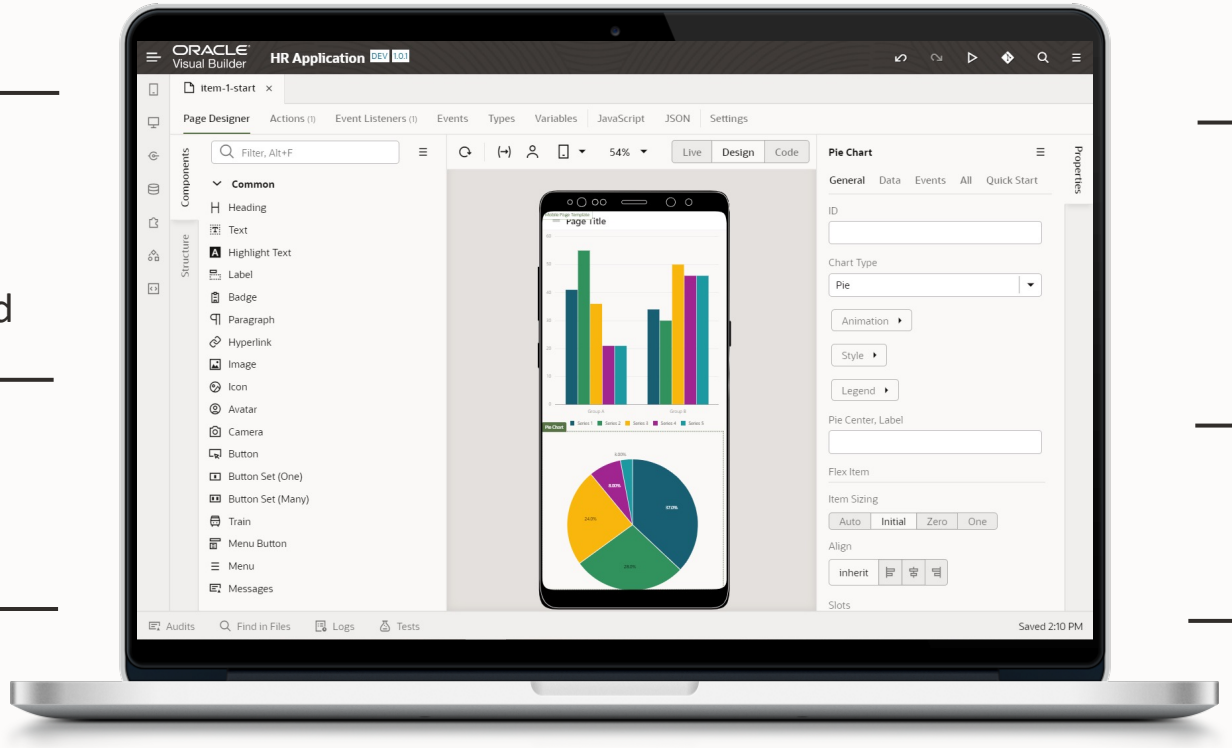
Quick Overview

No coding required

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

Drag and Drop Visual Development



Rich library of web components

Access to auto-generated code

Native look and feel iOS and Android

Deploy on-device to Apple and Android platforms

Build complex multi-screen apps

In-browser app preview

Browser based environment

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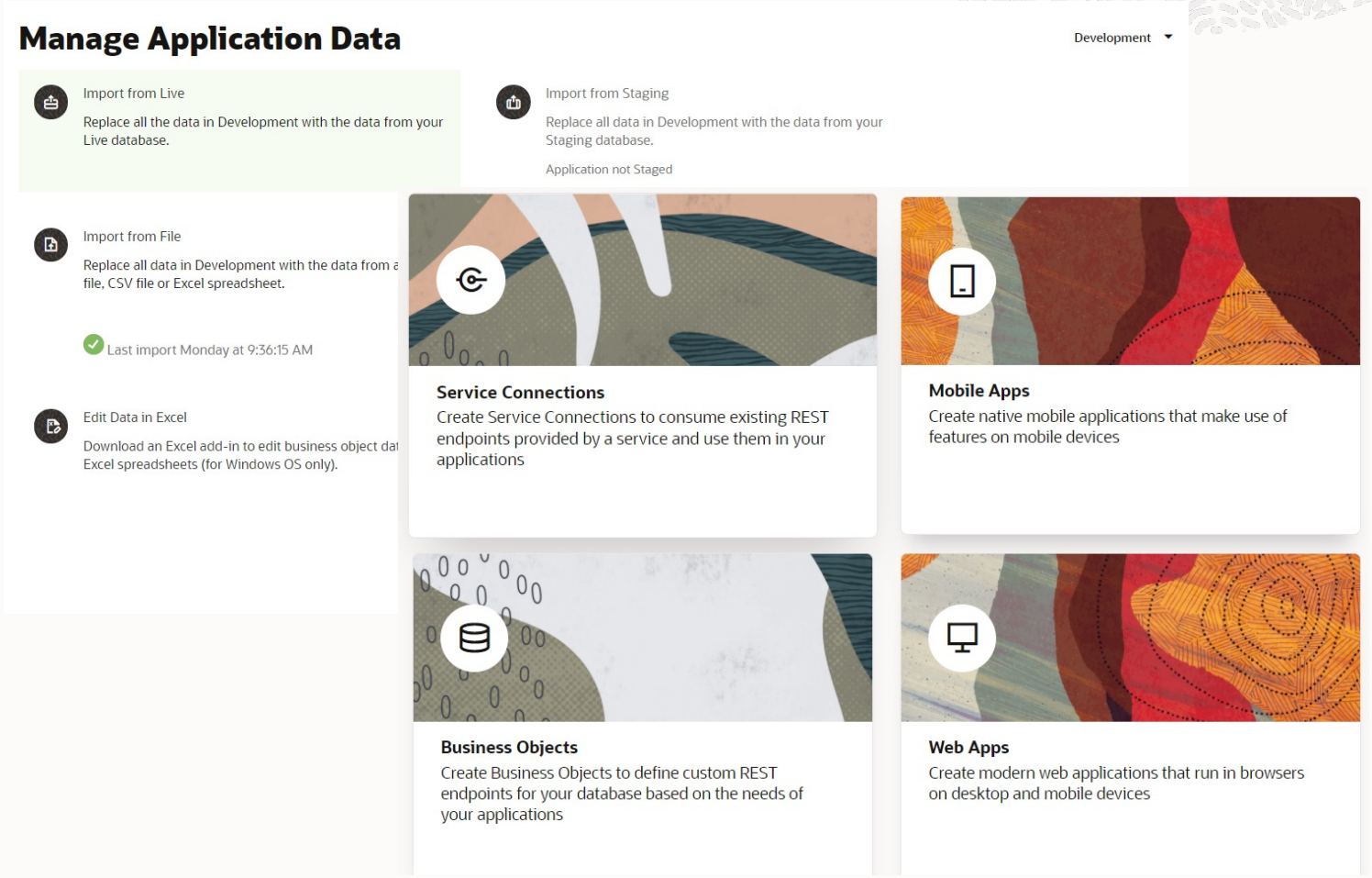
Key Features of High Productivity Platforms

VISUAL DEVELOPMENT



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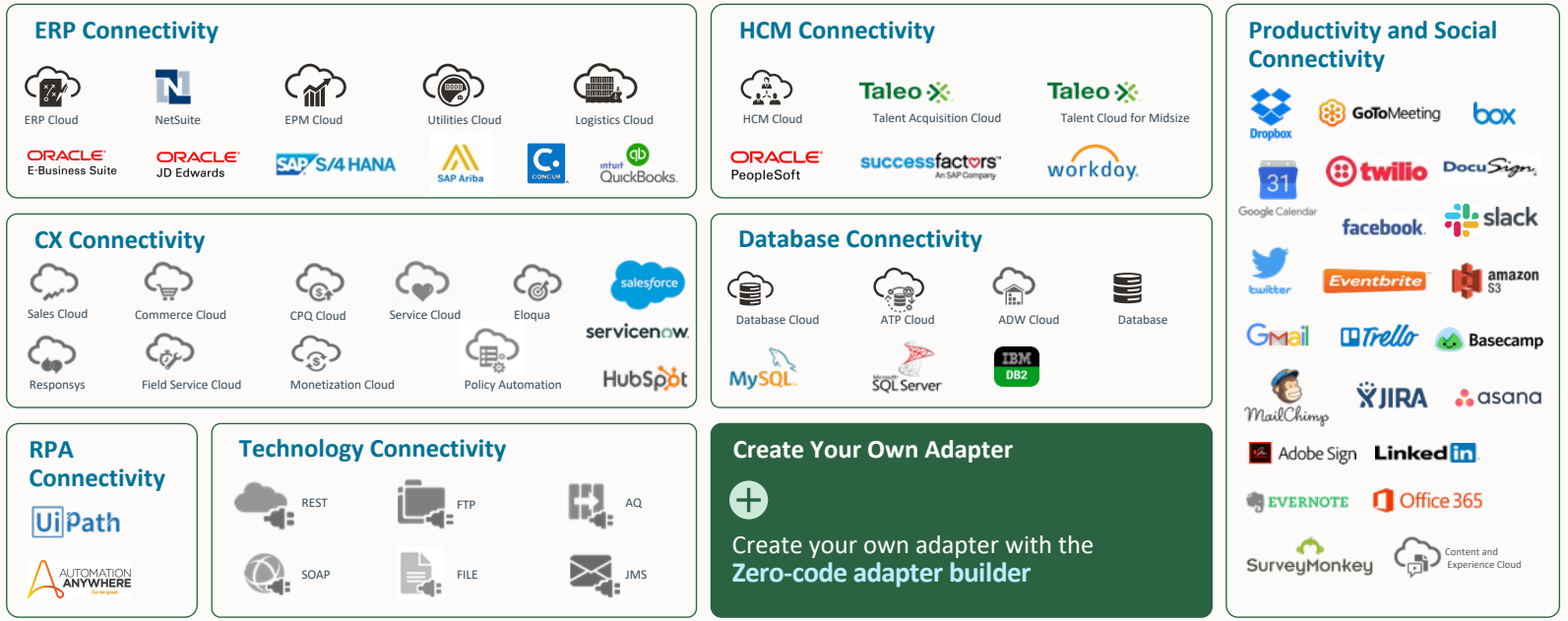
Key Features of High Productivity Platforms

VISUAL DEVELOPMENT

INTEGRATION



Oracle Integration Cloud

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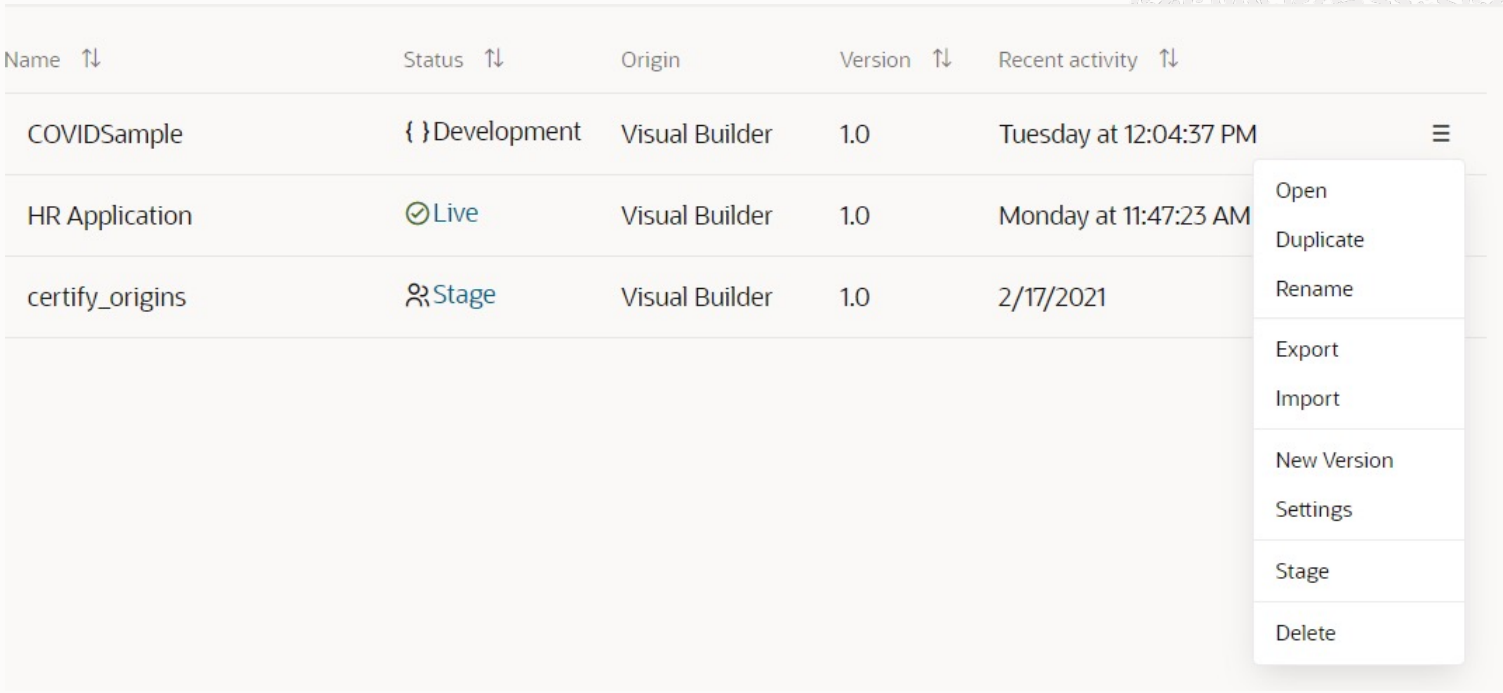
Key Features of High Productivity Platforms

VISUAL DEVELOPMENT

INTEGRATION

INSTANT DEPLOYMENT



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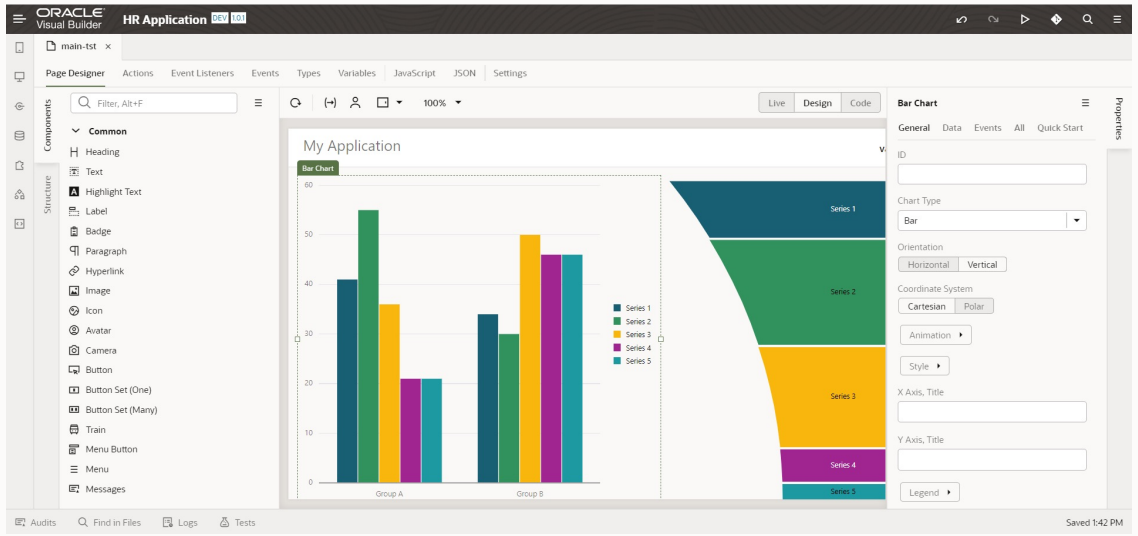
Key Features of High Productivity Platforms

- 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



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Oracle APEX

About Oracle APEX

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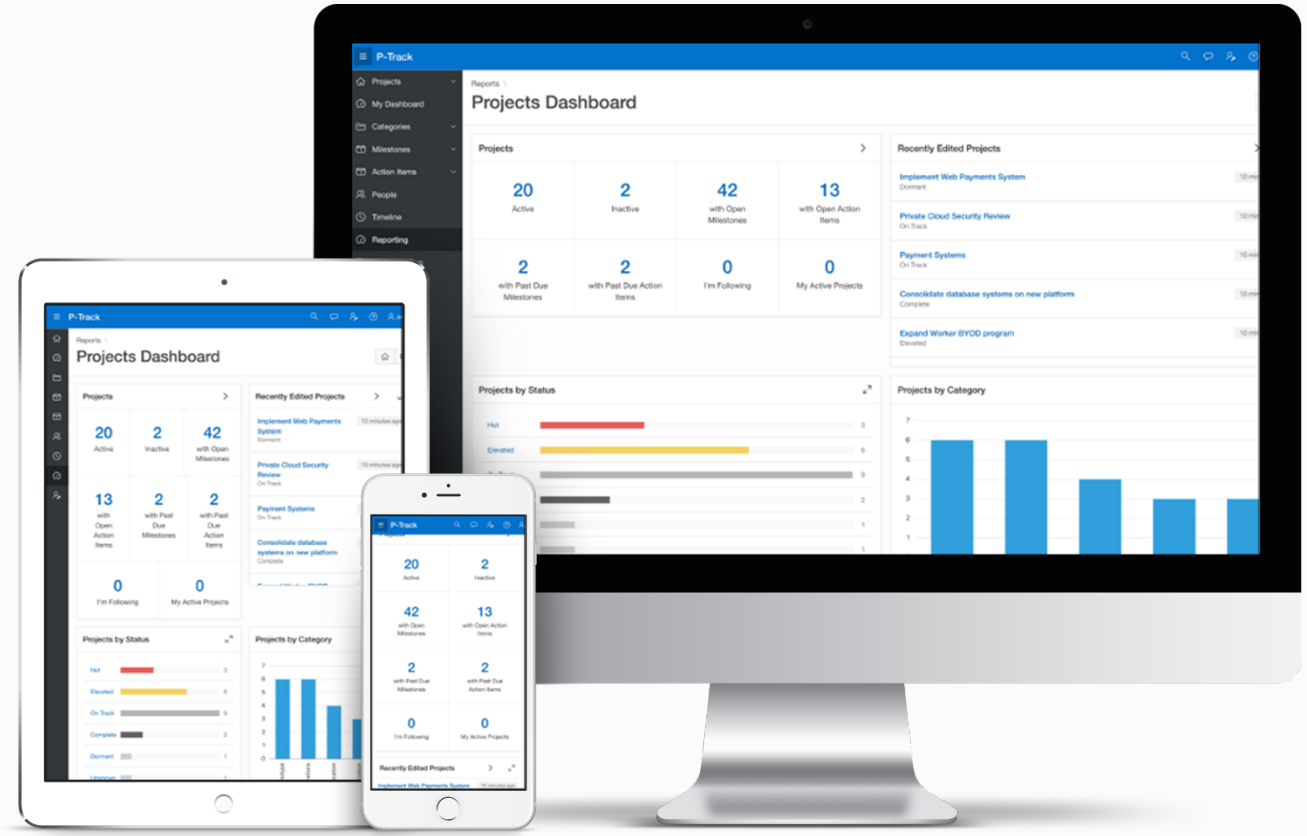
Oracle APEX– Low Code Development

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

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



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Low-Code Benefits

Less coding
and
Easy to learn

High productivity

Faster app releases
with
minimal investment

Concentrate on
business
requirements

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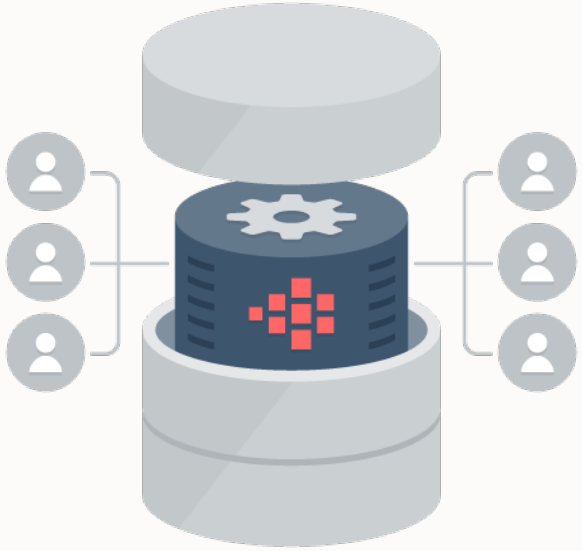
Distinguishing Characteristics

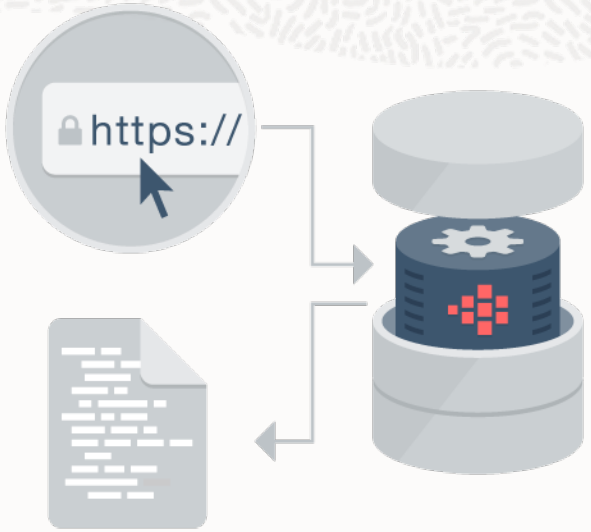
App Development IDE is **browser based**.

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

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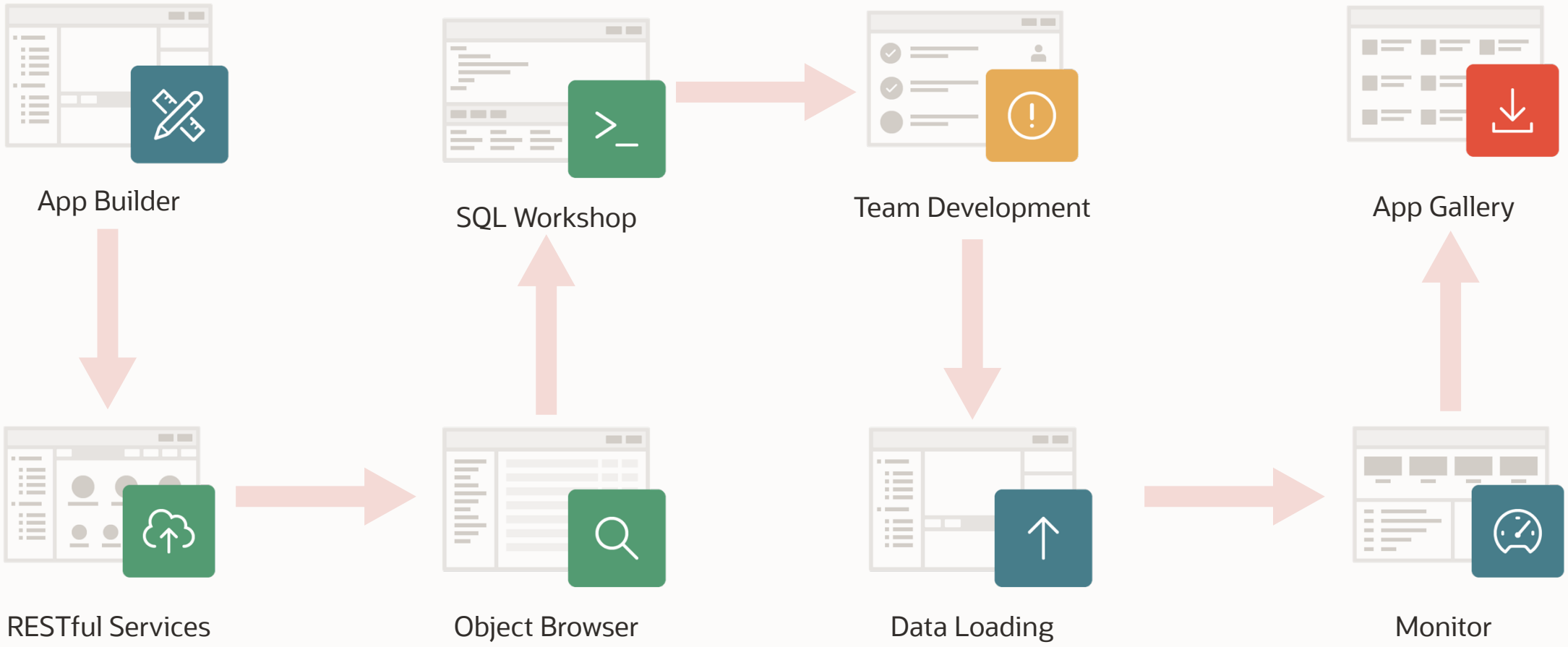
Oracle APEX Application Development – Comprehensive Low Code Platform



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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

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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

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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

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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

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Application Express (APEX) Ratings Overview

Reviewed in Last 12 Months | EMAIL PAGE

4.9 ★★★★★ 80 Reviews (Last 12 Months)

96% Would Recommend

Rating Distribution

5 Star	88%
4 Star	11%
3 Star	0%
2 Star	1%
1 Star	0%

Distribution based on 80 ratings

Customer Experience

Evaluation & Contracting	4.7
Integration & Deployment	4.8
Service & Support	4.8
Product Capabilities	4.9

All User Ratings

Highest Score of 4.9 out of 5 with 96%

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

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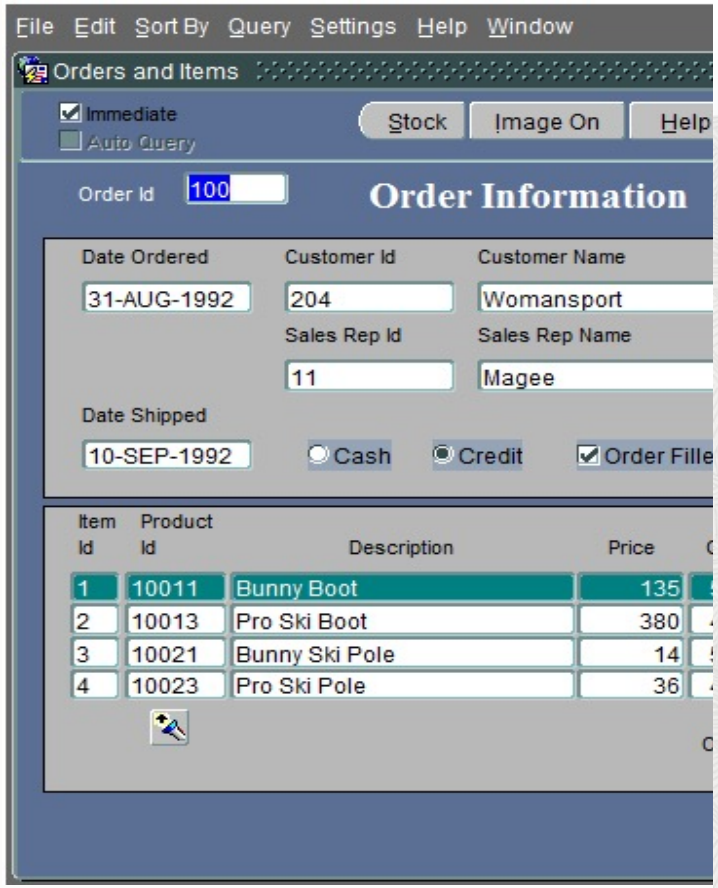
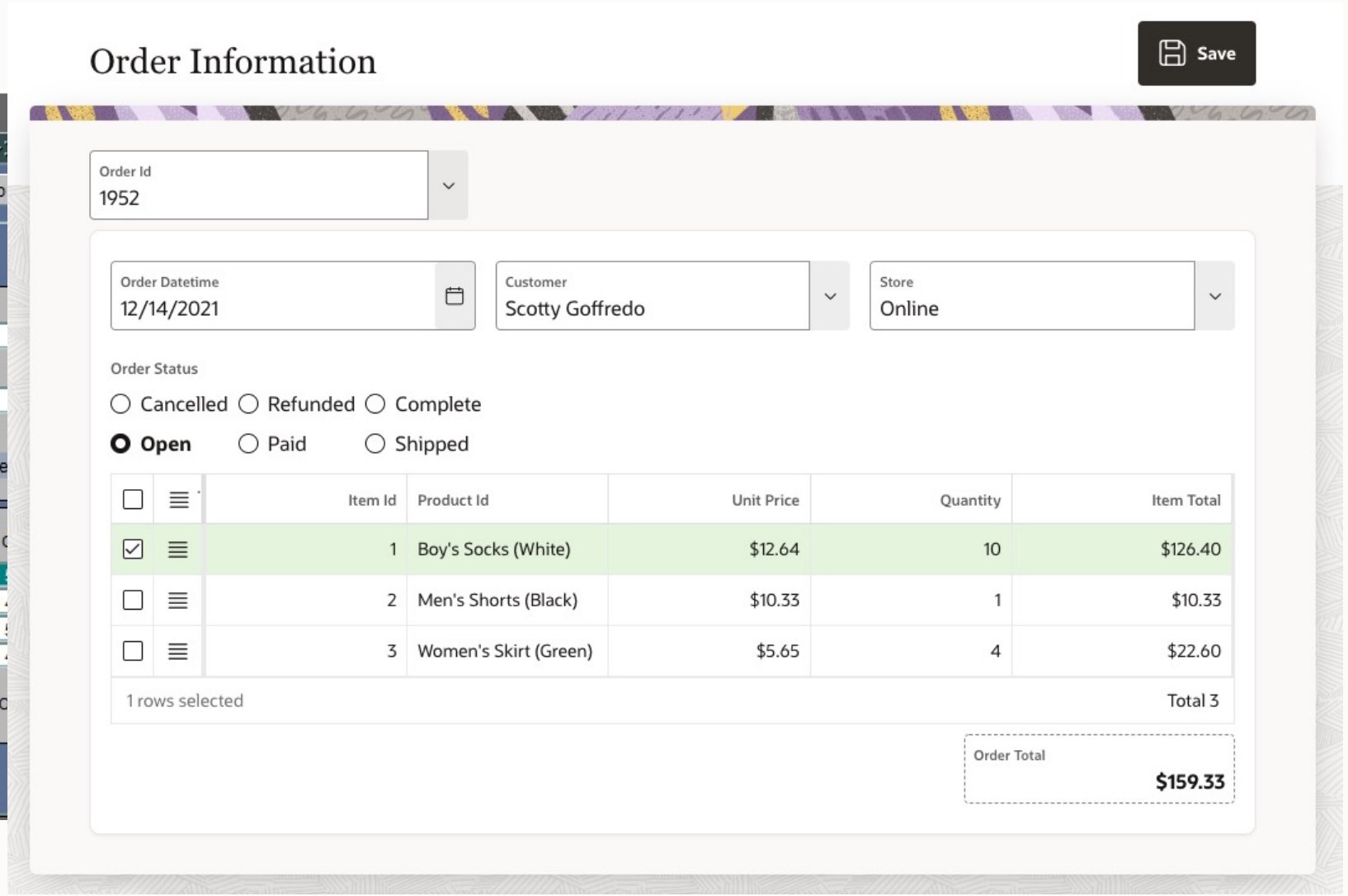
Demo Overview steps



Oracle Forms



Oracle APEX

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Oracle Development Tool offerings

APEX

Visual Builder

Skills Needed	SQL, PL/SQL	JavaScript, REST
Development / Deployment	Oracle Cloud, On-premises, 3rd 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

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Modernize your existing Forms applications adding latest features

Replatform to Cloud

Run your Forms and Database environment on Oracle Cloud

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- 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

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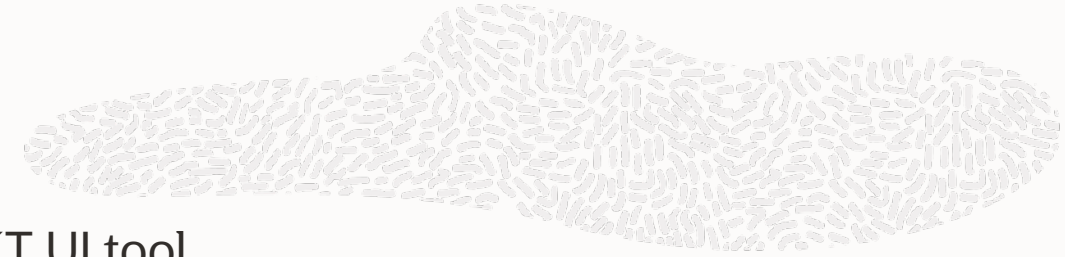
Future Session

http://bit.ly/AppDevWebcast



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- **Feb 2022:** Developing Microservices with Helidon and Coherence
- **March 2022:** DevOps & Verrazzano Update and Deep Dive Demo
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Q & A

Thank You!

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