

Oracle APEX Application Development

A Low Code Development Platform



Olivier Perard

Iberia Technology Software Engineers Director

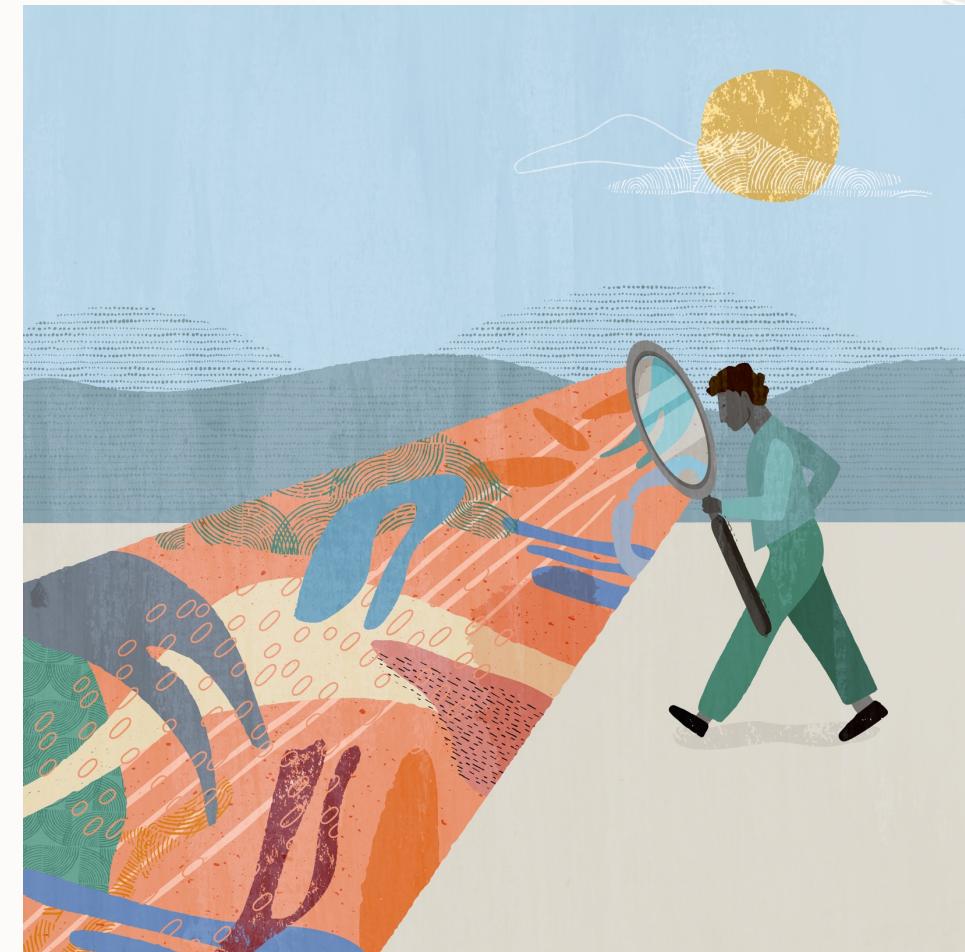


Guillermo Best

Technology Architects Manager

Traditional Application Development has challenges

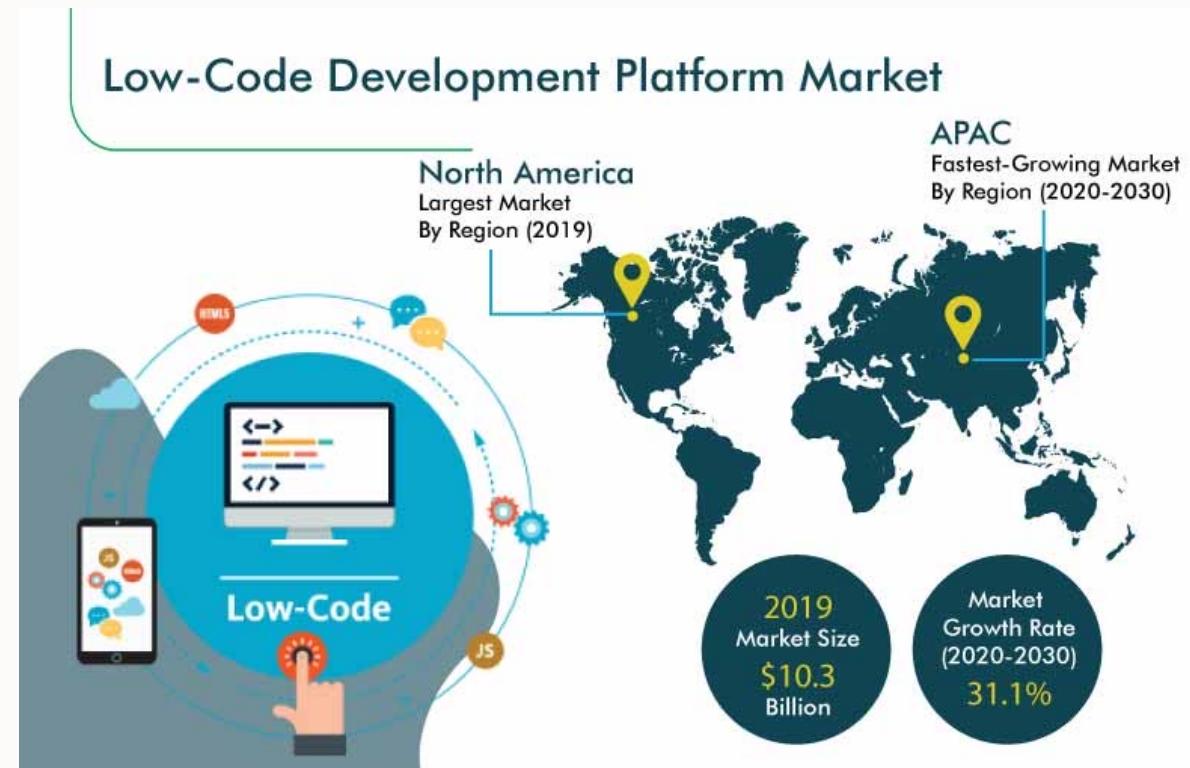
- 1 Requires specialized skills, **dependency** on professional talent
- 2 **Long development cycles**, unacceptable time to market
- 3 Increased business demands results in **huge application backlog**
- 4 **Expensive** to build and maintain entire application stack
- 5 Development model **lacks agility**, not suitable for rapid development of new ideas



The Future Of Application Development is Low Code

31.1% CAGR

Increasing demand for business digitization, adoption of cloud technology, less dependency on professional developers, and stringent government norms are the key factors driving low-code development platform industry



Source: <https://www.psmarketresearch.com/market-analysis/low-code-development-platform-market>

Why you should choose **Low Code**?

- ✓ No specialization needed, very easy to learn
- ✓ Less code to write, helps innovate faster
- ✓ Rapid delivery, Acceleration of speed to market
- ✓ Address business requirements with minimal cost
- ✓ Attract and retain top talent with innovative culture





Oracle APEX Recognized as a **Customers' Choice** in the **2022 Gartner® Peer Insights™ "Voice of the Customer": Enterprise Low-Code Application Platforms**

Oracle APEX is rated **4.8 / 5** based on 80 reviews submitted in the last 12 months!

“Stunning fast application development with a beautiful UI/UX **without any struggle**. Works for small business applications but also for large scale CRM/ERP you name it business critical application.”
- [Supplier Manager, Transportation Industry](#)

“Perhaps the **best lowcode platform** in market, we use it to decrease time of development of simple pages to maintain tables, etc... also for complex queries and processes”
- [CTO, IT Services Industry](#)

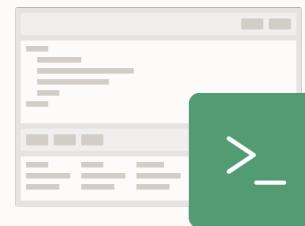
“Several low-code platforms are in the market nowadays, our company explored some of them and, decided for Oracle APEX, basically because it is a **very mature platform** that has been evolving with a very clear vision and purpose over the years and is close to our data infrastructure, thus, interacting with our core systems is **easy** and lets us to **leverage our data** in the way we need. We have been able to create various applications in a **really short time** and they are serving to our needs like a charm, letting us to expand the scope of Oracle ERP Cloud and several other systems.”
- [Enterprise Architecture and Technology Innovation, Real Estate Industry](#)

www.gartner.com/reviews/market/enterprise-low-code-application-platform

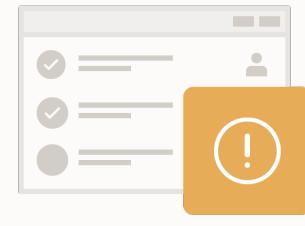
Oracle APEX Application Development – Comprehensive Low Code Platform



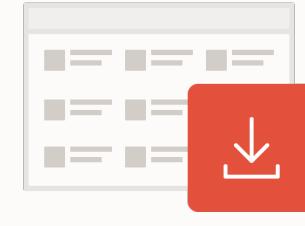
App Builder



SQL Workshop

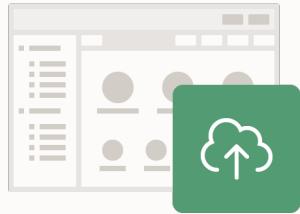


Team Development



App Gallery

Build powerful web apps using a web browser



RESTful Services



Object Browser



Data Loading



Monitor

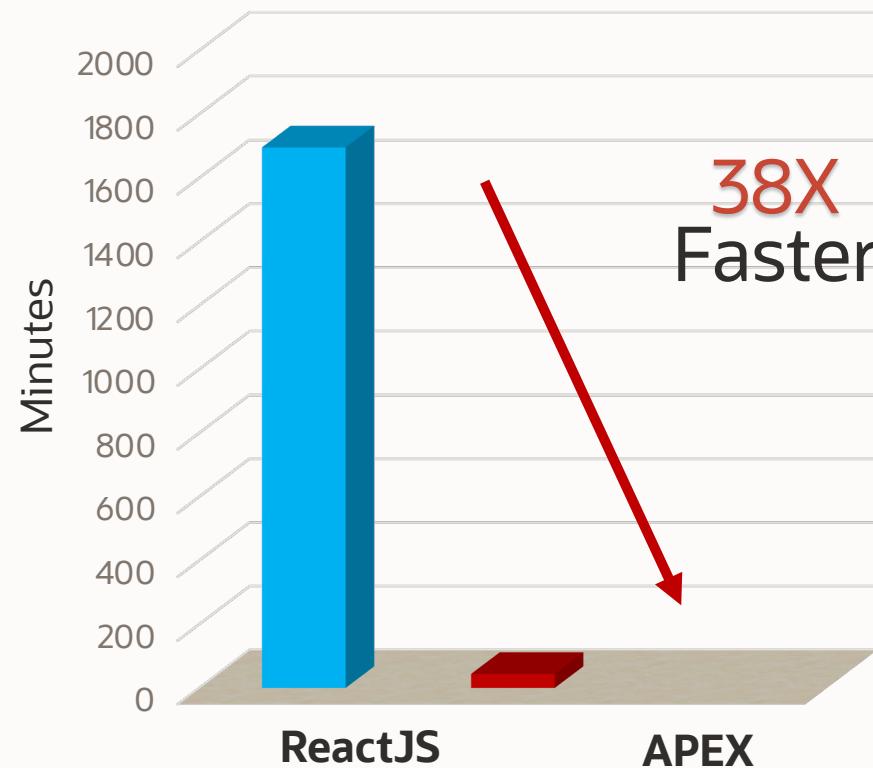
Import/export data

Publish **REST APIs**

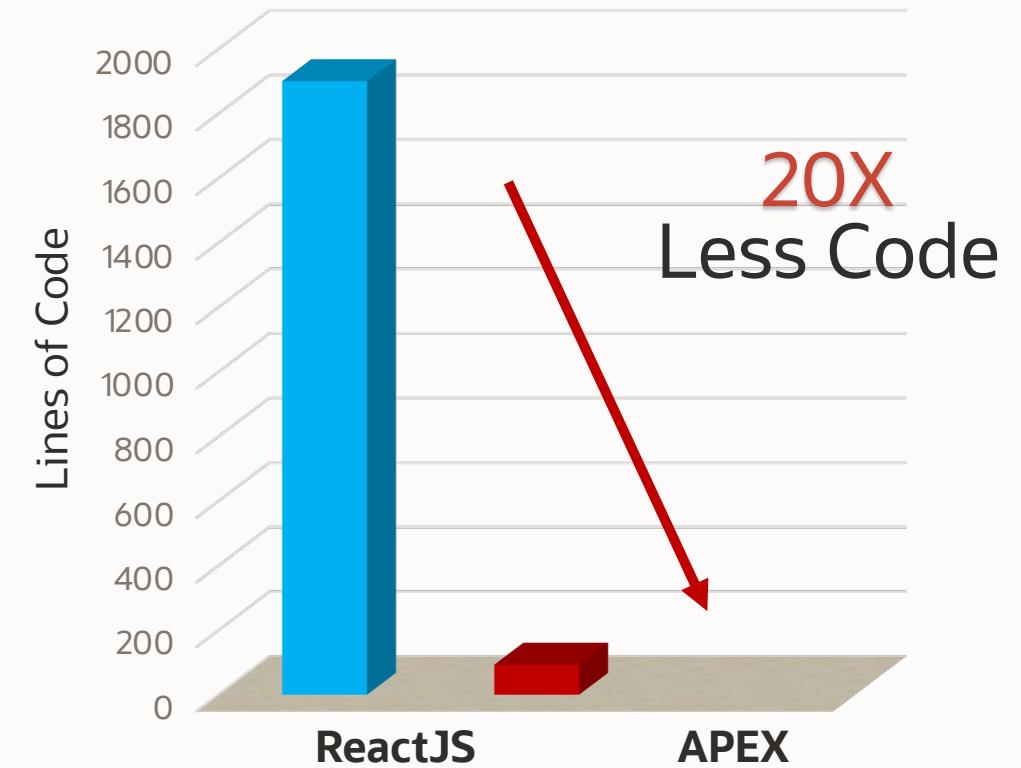
Integrate local and remote data

Oracle APEX Application Development - Radically Faster

Development Time

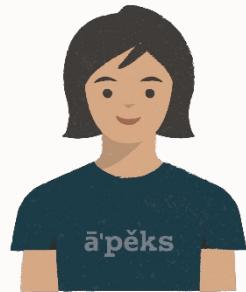


Lines of Code



Time and Motion Study : ReactJS vs. Low-Code APEX

Ideal platform for wide range of developers



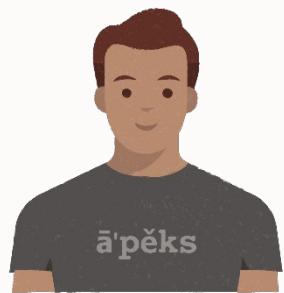
Citizen Developer

- Spreadsheet Replacement
- Backoffice Apps
- Opportunistic AppDev



Pro Developer

- SaaS Systems Development
- Digitization
- Enterprise App Dev



LOB Developer

- LoB App Dev
- Process Automation
- Personal Productivity Apps

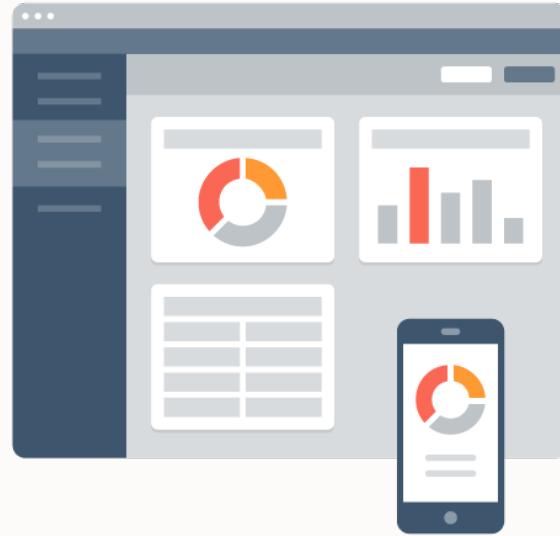


Data Scientists

- Data Visualization
- External Data Sharing
- Analytic Apps

Solve range of business use cases

Oracle APEX Application Development - Framework



Develop desktop and
mobile web apps

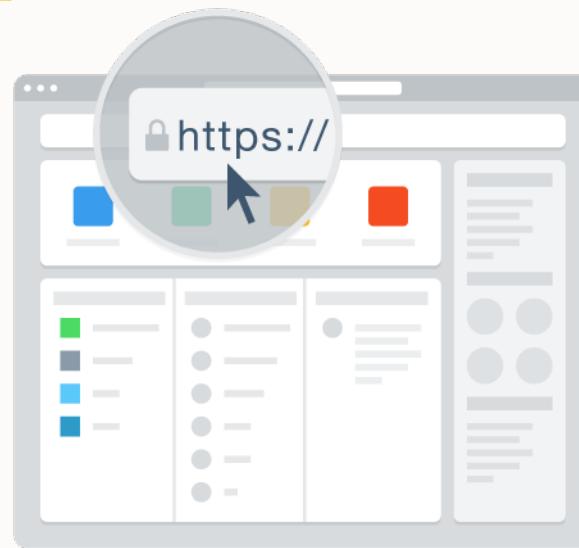


Visualize and maintain
database data



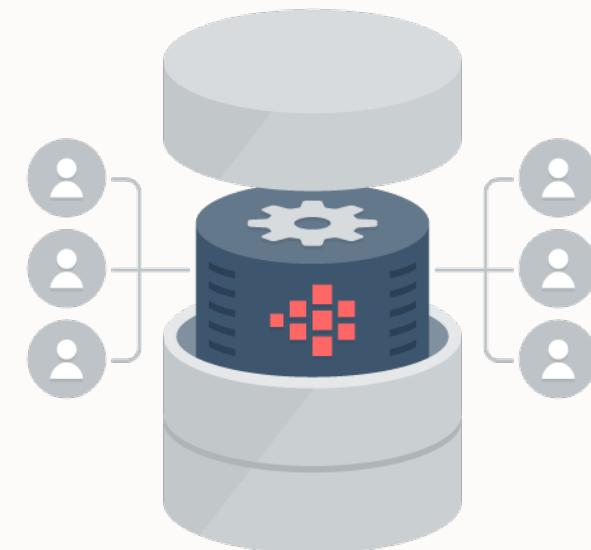
Leverage SQL Skills and
database capabilities

Oracle APEX Application Development - Characteristics



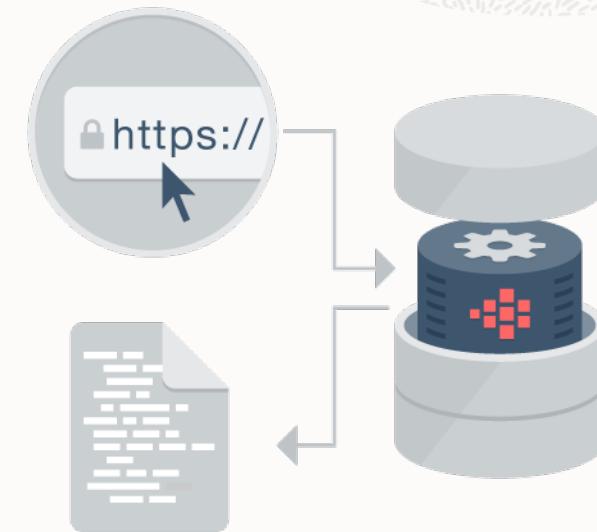
App Development IDE is a
web browser

No client software



App definitions are stored as
meta data

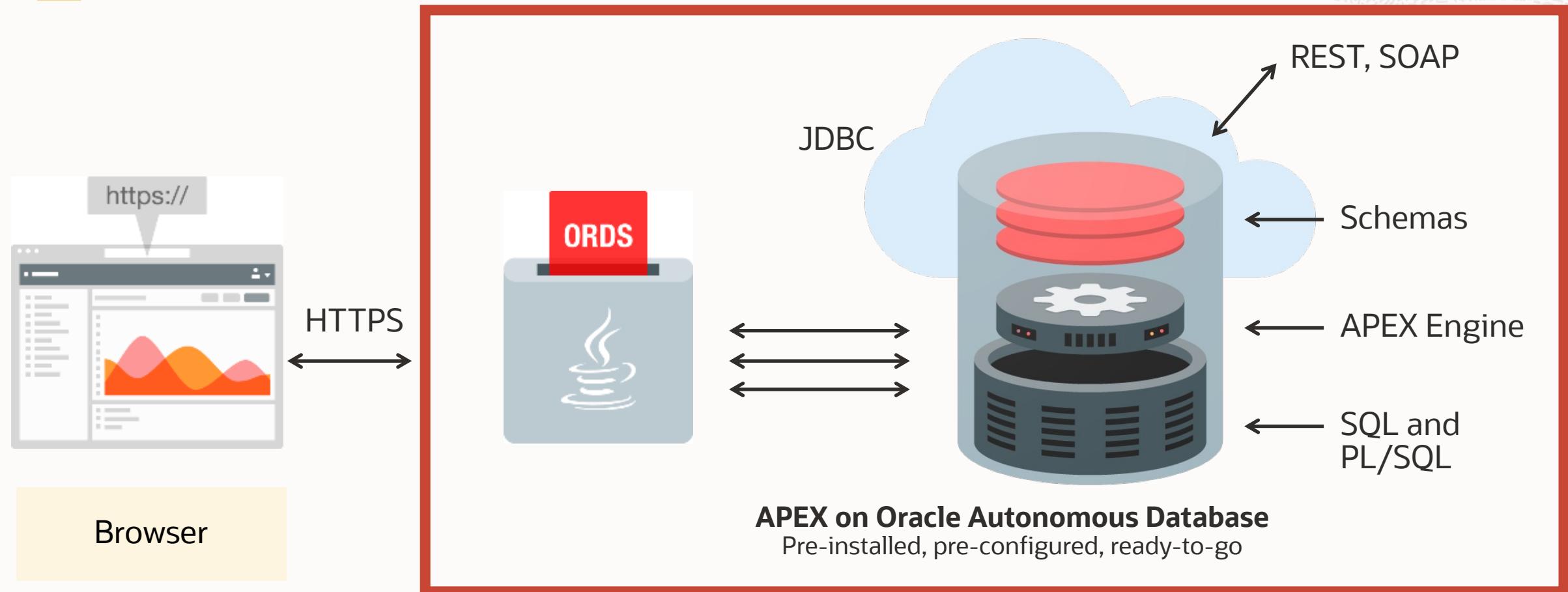
Declarative - no code
generation



Efficient execution with only
one request and one response

Zero latency data access

Oracle APEX Application Development - Architecture



Oracle APEX Application Development – Value Proposition

- **APEX Development:** Low-Code
 - Easy declarative development for both citizen and professional developers
 - Rapidly create and iterate apps to match evolving business needs
- **APEX Deployment:** Zero OPS for Application or Data
 - Fully integrated in the Database platform
 - Security & Audit features of the database apply
- **Low Cost:**
 - No extra costs – part of the database entitlement



Use Cases

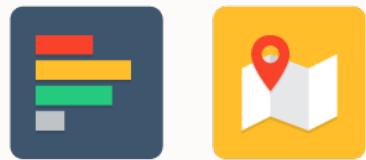


Transform your spreadsheets to web apps



- Copy / paste or upload a spreadsheet file
 - Creates table in oracle database
 - Determines best-fit data types
 - Uploads data into oracle table
 - Creates first-cut of app
-
- Move to a single source of truth
 - Send out a URL not a file
 - Secure, scalable, multi-user app
 - Add validations to improve data quality
 - Superior reporting with faceted search & dashboards
 - Extend with charts, calendars, and more

Rapid application development



- Build apps in days / weeks not months / years
- Use powerful wizards to create fully featured apps
- Low-code capabilities allow non-IT professionals to also build or help build apps
- Easily modify to meet changing requirements
- Rapidly iterate to production-ready app

- Opportunistic
- Simplistic, tactical apps to meet immediate need
- Webify paper processes
- Generally developed by one or two people

Modernizing Oracle Forms



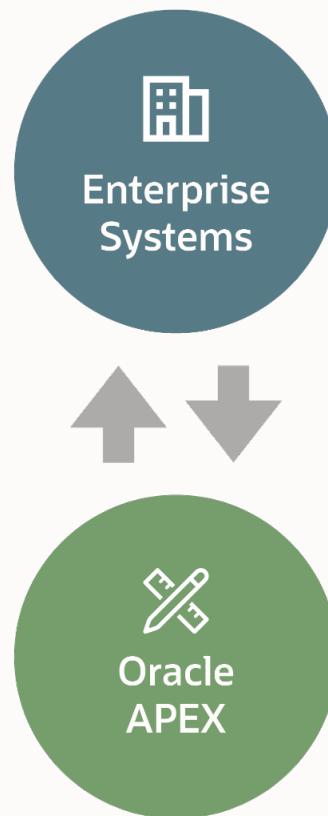
- APEX is the natural evolution of forms
- Both based on SQL and PL / SQL
- Re-use DB packages, procedures, functions
- Easily train forms developers to develop APEX



- Proof-of-concept using subset of Forms apps
- Organization-wide apps, rather than back-office
- External apps for customers / partners
- Mobile-first apps
- Net new requirements

<https://apex.oracle.com/en/solutions/oracle-forms>

Build or Extend enterprise applications



- Quickly build custom mission-critical apps
 - Extend ERPs and other enterprise software such as EBS, PeopleSoft, JD Edwards, SAP, and SalesForce
 - Provide organization-specific dashboards and reports
 - Improved workflows
 - Enhance data capture, corporate data reporting and maintenance
-
- Meet non-standard or industry specific requirements
 - Optimize common business functions
 - Integrate disparate data sources
 - Scale to hundreds of thousands of users
 - Leverage enterprise features of Oracle Autonomous

See: [Extend E-Business Suite using APEX – Official white paper](#)

Low Code Demo



Building an APEX app from scratch without coding

APP **Clases de Idiomas**

- ✓ Create a **Data Model** to store students, teachers, classes and some dimensions
- ✓ Provide useful **CRUD, reporting and searching**
- ✓ Includes **Dashboard, Maps, Calendar and Upload**
- ✓ **Debug** and **Look&feel** customization
- ✓ Two **miniAPPs with JSON and REST**
- ✓ Develop this APP **in 30 minutes**
- ✓ **Export** Data Model and Full APP **for distribution**



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Building an APEX app from scratch without coding

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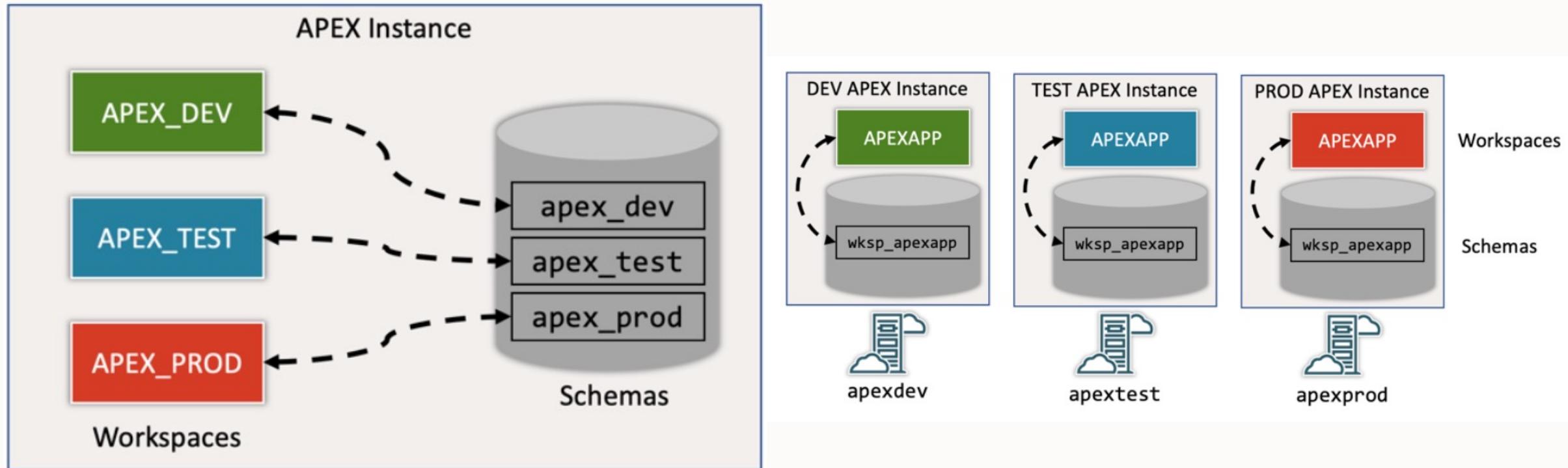


<https://github.com/OracleDataManagementSpain/APEXdemo>

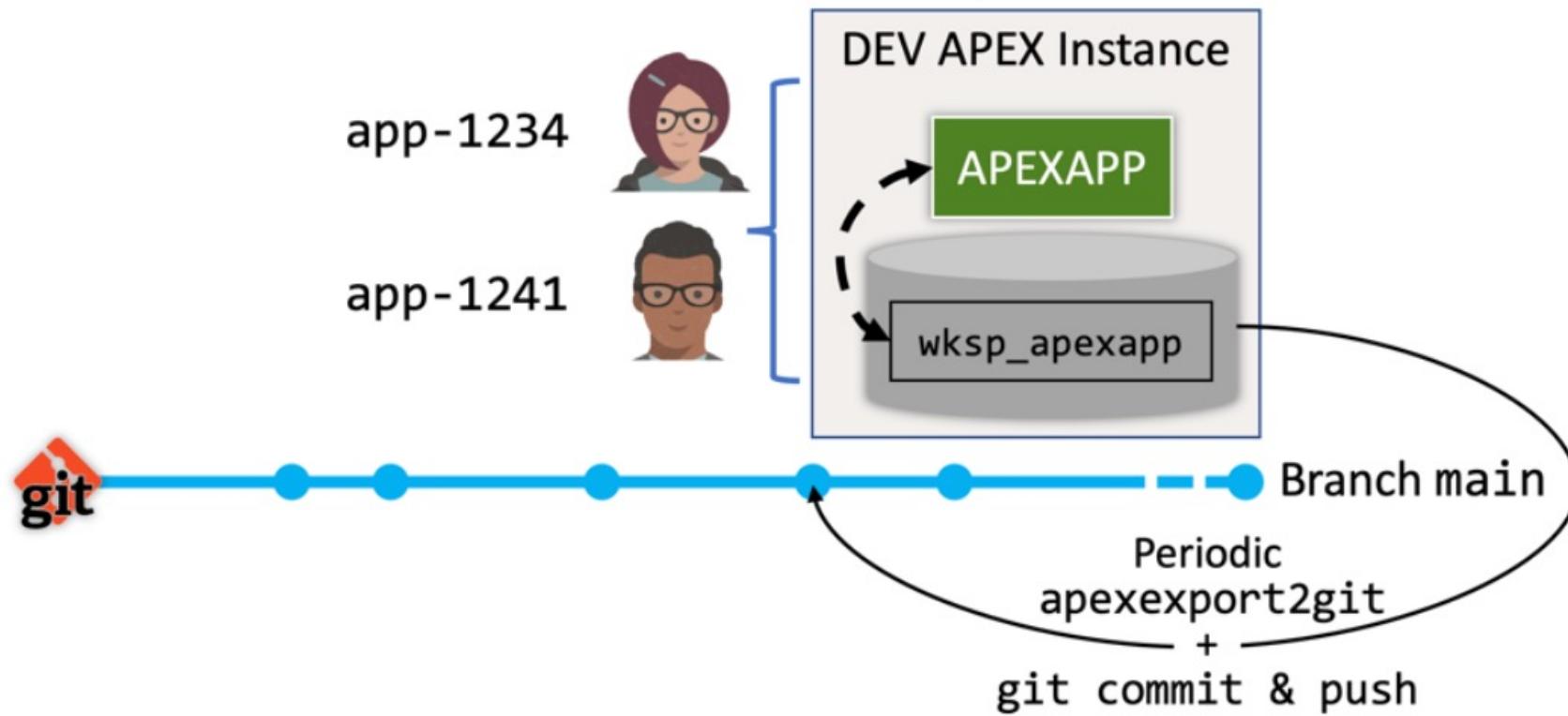
APEX Lifecycle Management



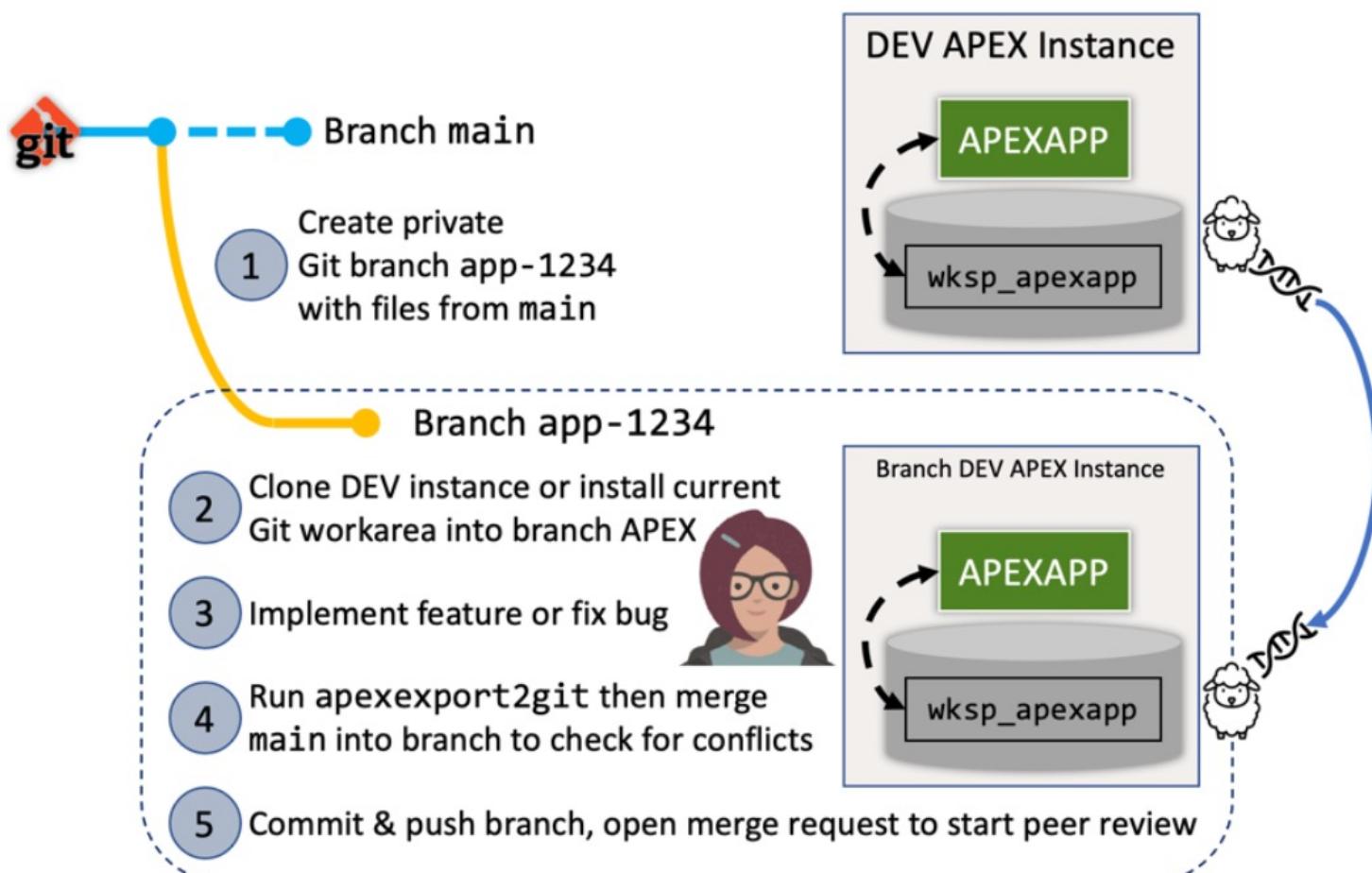
APEX Lifecycle Management



APEX Team Lifecycle Management



APEX Team Lifecycle Management



Other Demo





F1 Simulator Demo

“Every element of our performance is driven by data analysis. Having Oracle as our title partner shows the confidence we have in their expertise and their ability to deliver a competitive advantage.”

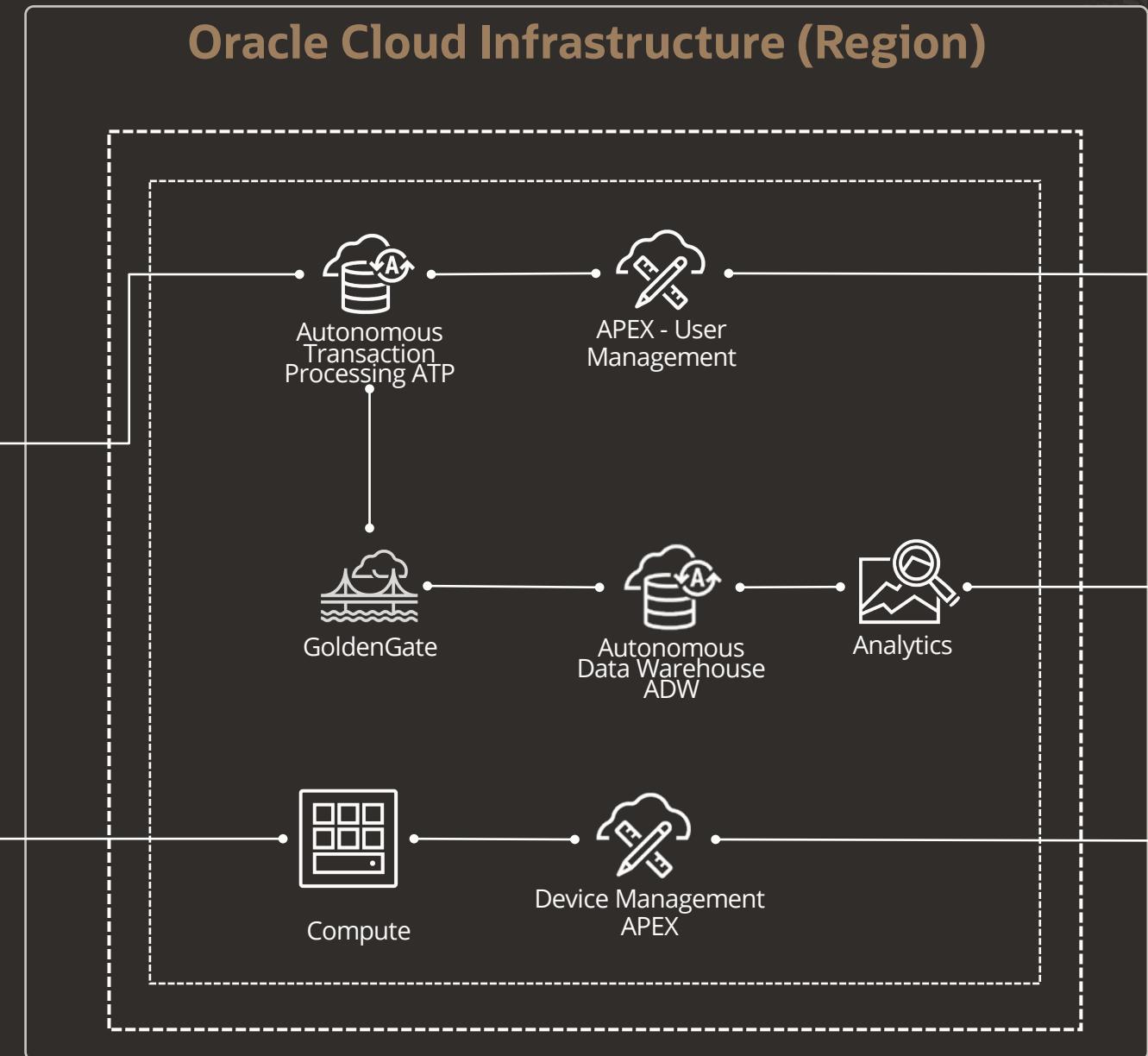
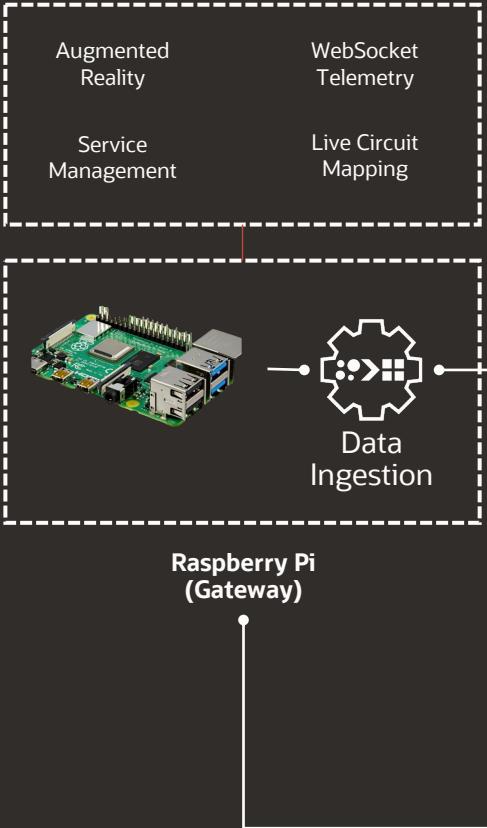
•Christian Horner

-Team Principal and CEO, Oracle Red Bull Racing



F1 Simulator Architecture

Oracle Cloud Infrastructure (Region)



Three screenshots of Oracle Cloud Infrastructure dashboards:

- Oracle Live Laps:** Shows a table of race results for the "Silverstone GP 2022" race, including columns for P, NAME, LAP, GAP, INT, S1, S2, and S3. The top driver is Bybit with a best time of 1:22.902.
- Silverstone Circuit:** Displays a map of the Silverstone Circuit with track segments T1-T18 and Sector 1 highlighted. It shows current leader Bybit and race statistics like Sessions (55), Laps (375), Racers (19), and Top speed (318).
- Remote Device Manager:** A table listing remote devices, including their names, status, type, and last heartbeat. Devices listed include "Physical", "PCI", "cheesecake", "rechargeable", "poker's PS", "soccer-utility", "Poker-club", "Jester's Test Server", and "Physical".



F1 Simulator APEX Applications

The screenshot shows the Oracle APEX App Builder interface. At the top, there are navigation links: APEX (highlighted), App Builder, SQL Workshop, Team Development, and Gallery. To the right is a search bar and user information: rribibus (RB) livelapsib.

The main area contains four large buttons: Create (with a plus icon), Import (with an upward arrow icon), Dashboard (with a dashboard icon), and Workspace Utilities (with a wrench icon).

Below these buttons is a list of applications:

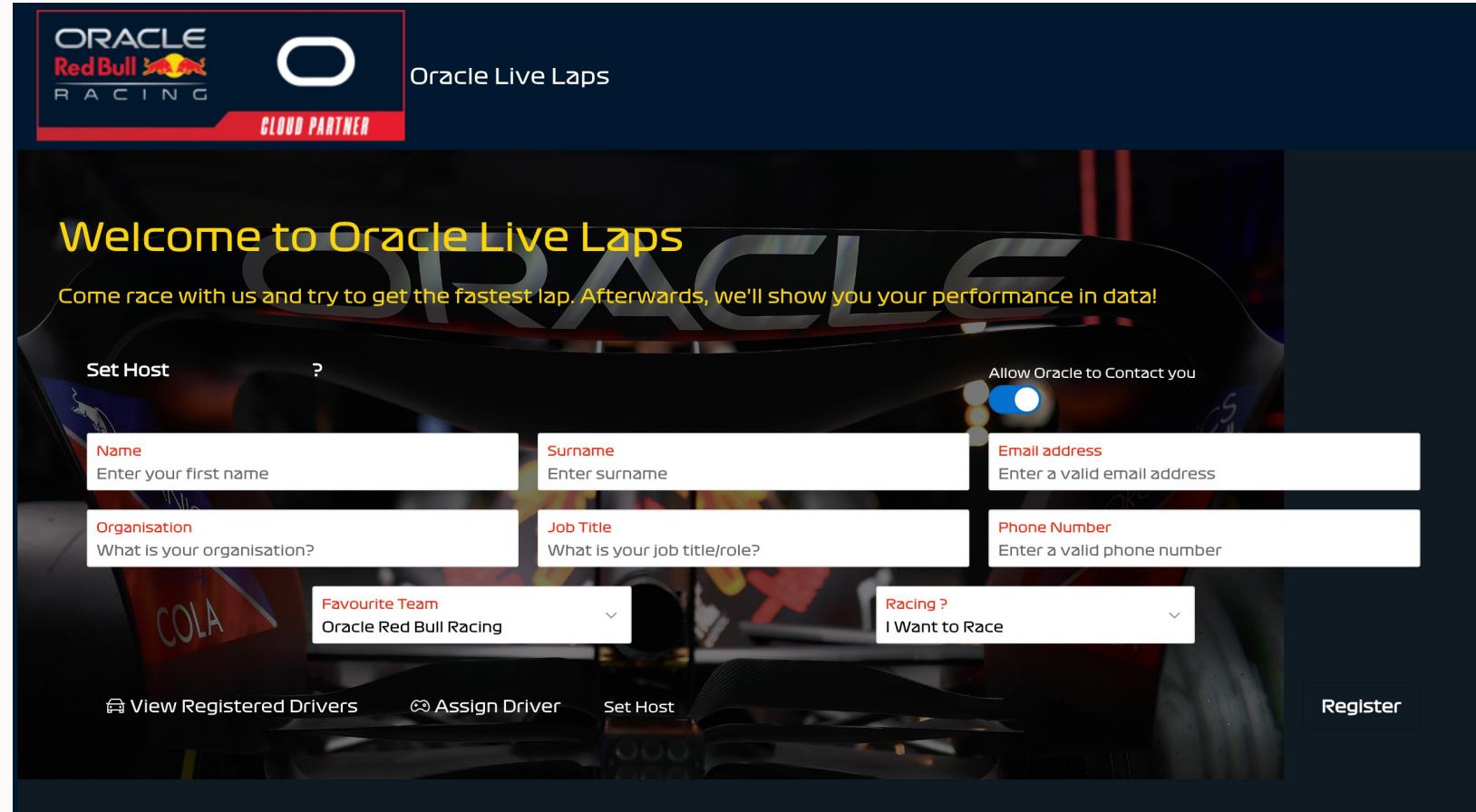
Actions	Name	Last Modified
Live Laps Event Manager	Live Laps	122
Live Laps 2022	Live Laps	123

The first two rows are highlighted with red boxes. At the bottom of the application list are buttons for Reset and Create >. Below the application list is a page number indicator: 1 - 2.

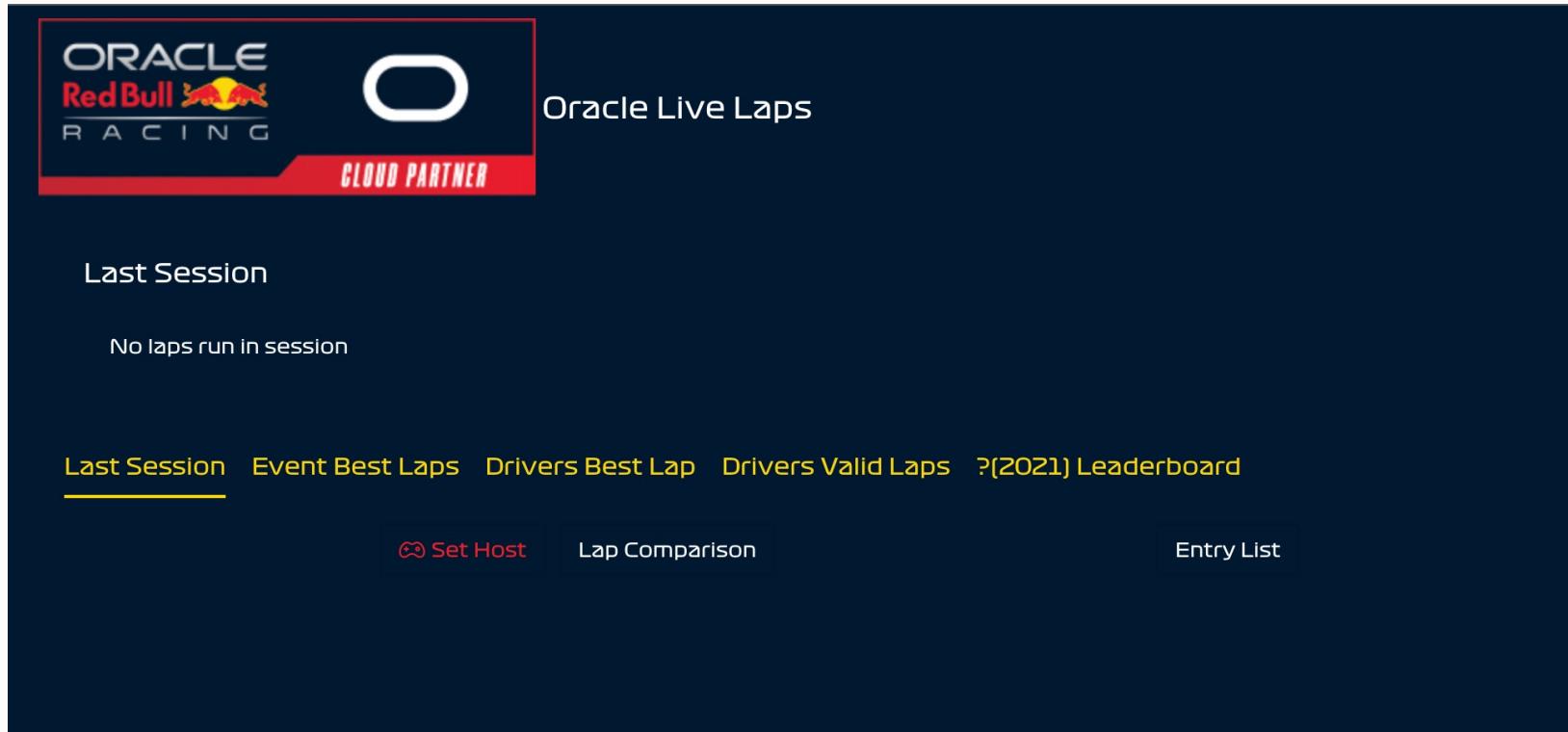
On the right side, there is a sidebar with sections: About, Recent, and Tasks. The About section describes the App Builder. The Recent section lists "Live Laps 2022 - 123" and "Live Laps Event Man - 122". The Tasks section lists "Manage Backups" and "Browse by Facets".

At the bottom of the page, there are footer links: rribibus, livelapsib, en, Copyright © 1999, 2022, Oracle and/or its affiliates., Oracle APEX 22.2.4, and a small Oracle logo.

Registration Process



LeaderBoard Dashboard



The image shows the Oracle Live Laps dashboard interface. At the top left is the Oracle Red Bull Racing logo, which includes the text "ORACLE Red Bull RACING" and a red bull icon, with "CLOUD PARTNER" written below it. To the right of the logo is a large white "O" icon. Next to the icon is the text "Oracle Live Laps". Below this header, there is a section titled "Last Session" with the subtext "No laps run in session". At the bottom of the interface, there is a navigation bar with several links: "Last Session" (underlined), "Event Best Laps", "Drivers Best Lap", "Drivers Valid Laps", "?[2021] Leaderboard", "Set Host" (with a host icon), "Lap Comparison", and "Entry List".





LeaderBoard Dashboard

Drivers Best Lap

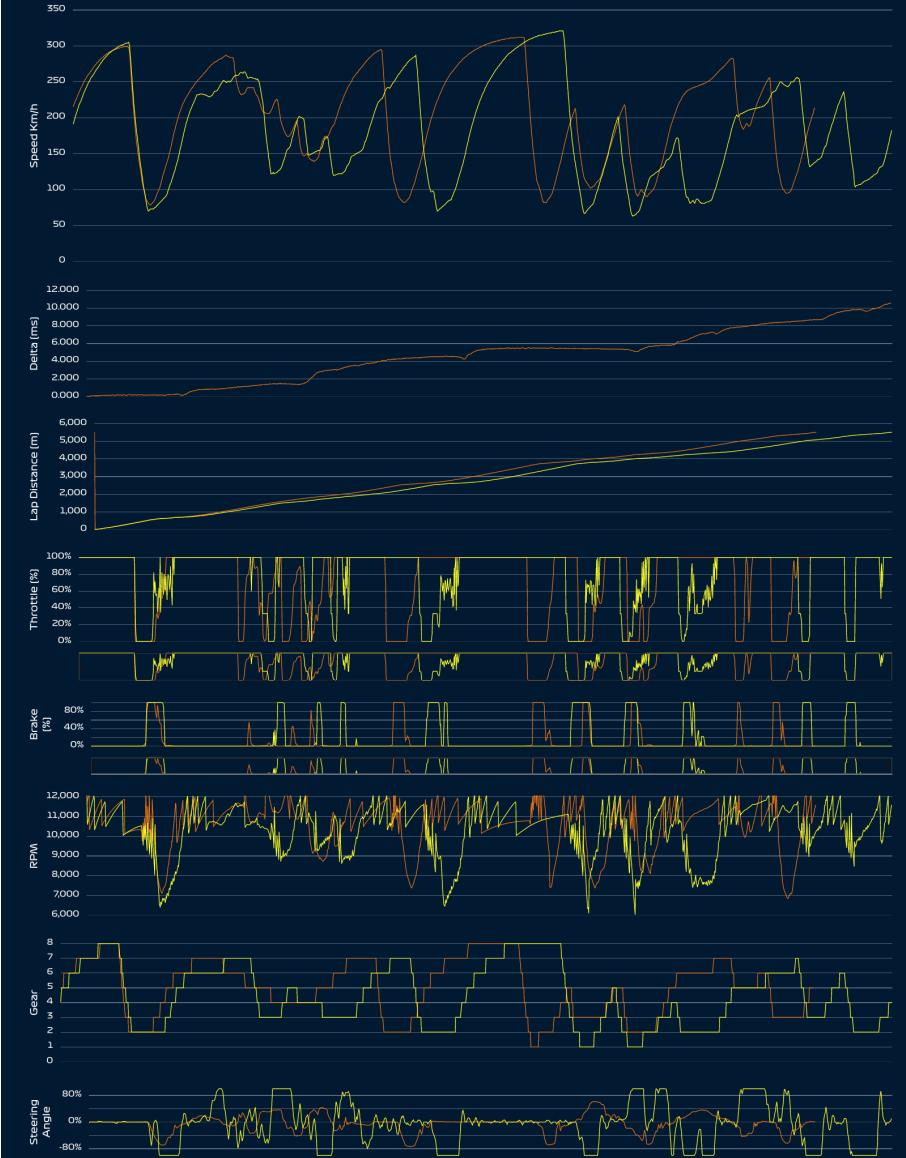
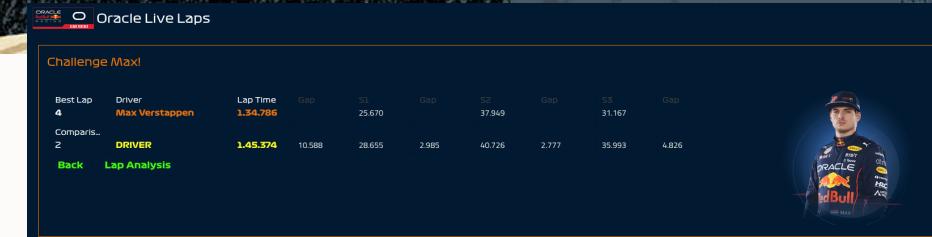
P	NAME	LAP	GAP	INT	S1	S2	S3	
1	[REDACTED]	2	1:39.489	Lap	.000	27.073	38.897	33.519
2	TEST DRIVE	2	1:39.594	.105	.105	27.229	38.790	33.575
3	[REDACTED]	1	1:40.074	.585	.480	27.139	39.482	33.453
4	[REDACTED]	1	1:40.188	.699	.114	26.871	39.030	34.287
5	[REDACTED]	1	1:40.239	.750	.051	27.153	39.363	33.723
6	[REDACTED]	2	1:40.382	.893	.143	26.795	39.935	33.652
7	[REDACTED]	2	1:40.594	1.105	.212	27.522	39.301	33.771
8	[REDACTED]	2	1:40.829	1.340	.235	27.261	39.590	33.978
9	[REDACTED]	1	1:40.907	1.418	.078	27.477	39.553	33.877
10	[REDACTED]	2	1:41.379	1.890	.472	27.427	40.366	33.586



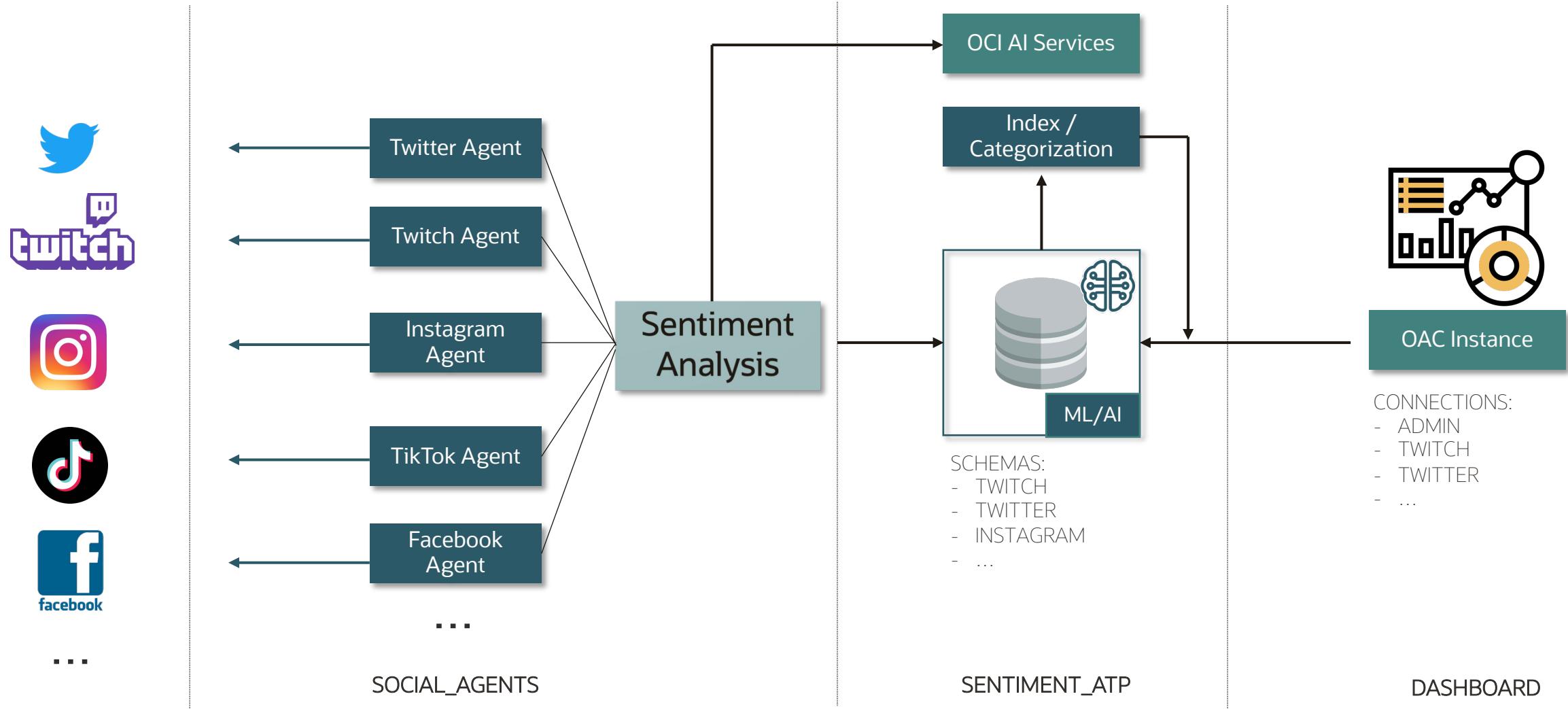
Telemetry Dashboard

IOT Telemetry Comparison

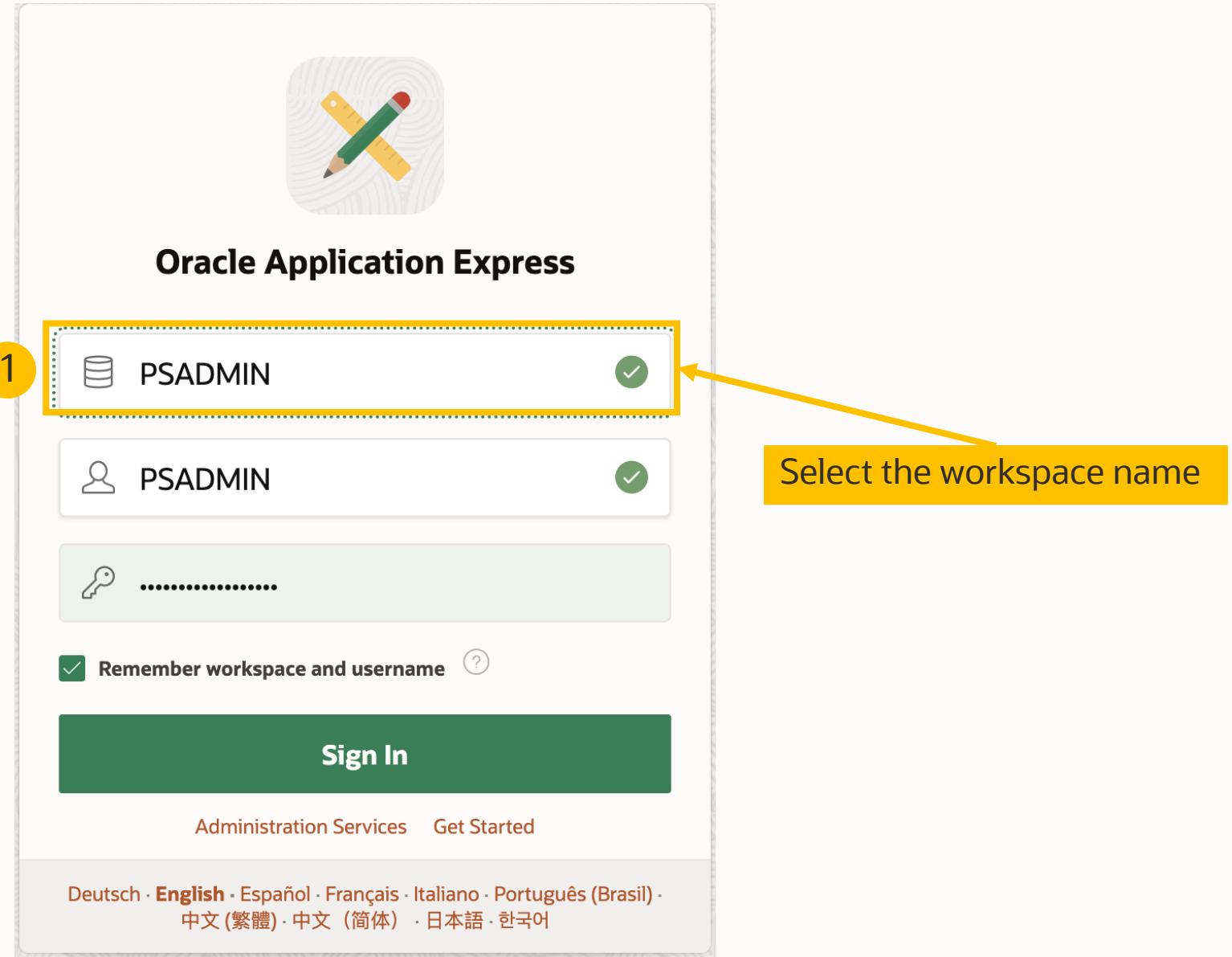
- ✓ Create a **JSON Data Model** to store Dataset.
- ✓ Provide useful **CRUD API**.
- ✓ Includes **IOT Streaming Dashboard**.
- ✓ Beautiful **Graphical Interface**.



Gaming Sentiment Analysis High Level Architecture



Connect to your new Workspace to develop your App



Developing your App for Gaming Maintenance Tool

The screenshot shows the Oracle APEX App Builder interface. At the top, there are navigation links: APEX, App Builder (selected), SQL Workshop, Team Development, and Gallery. On the right, there are user icons for psadmin and psadmin, along with a search icon, a person icon, a help icon, and a workspace utilities icon.

The main area features four buttons: Create (with a plus sign icon), Import (with an upward arrow icon), Dashboard (with a clock icon), and Workspace Utilities (with a wrench icon). Below these buttons is a toolbar with a search bar, a Go button, and various actions. A yellow callout box points to the 'GamingMaintenanceTool' application in the list, which is highlighted with a yellow border. The application details show it has 101 pages and is currently at page 1-1.

Click on “GamingMaintenanceTool” App to modify or develop new pages.

On the right side, there is an 'About' section describing the App Builder, a 'Recent' section listing '101 GamingMaintenanceTool', and a 'Tasks' section with 'Manage Backups' and 'Browse by Facets' options.

At the bottom, there are footer links for psadmin, psadmin, and en, along with copyright information: Copyright © 1999, 2021, Oracle and/or its affiliates. Application Express 21.1.7.

Develop Gaming Maintenance Tool Pages

The screenshot shows the Oracle Application Express (APEX) App Builder interface. At the top, there's a navigation bar with links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. On the right side of the header, there's a user profile for 'psadmin'.

The main area displays the 'Application 101 - GamingMaintenanceTool'. It features several icons: 'Run Application', 'Supporting Objects', a central grid icon, and 'Export / Import'. Below these are two rows of icons representing different pages:

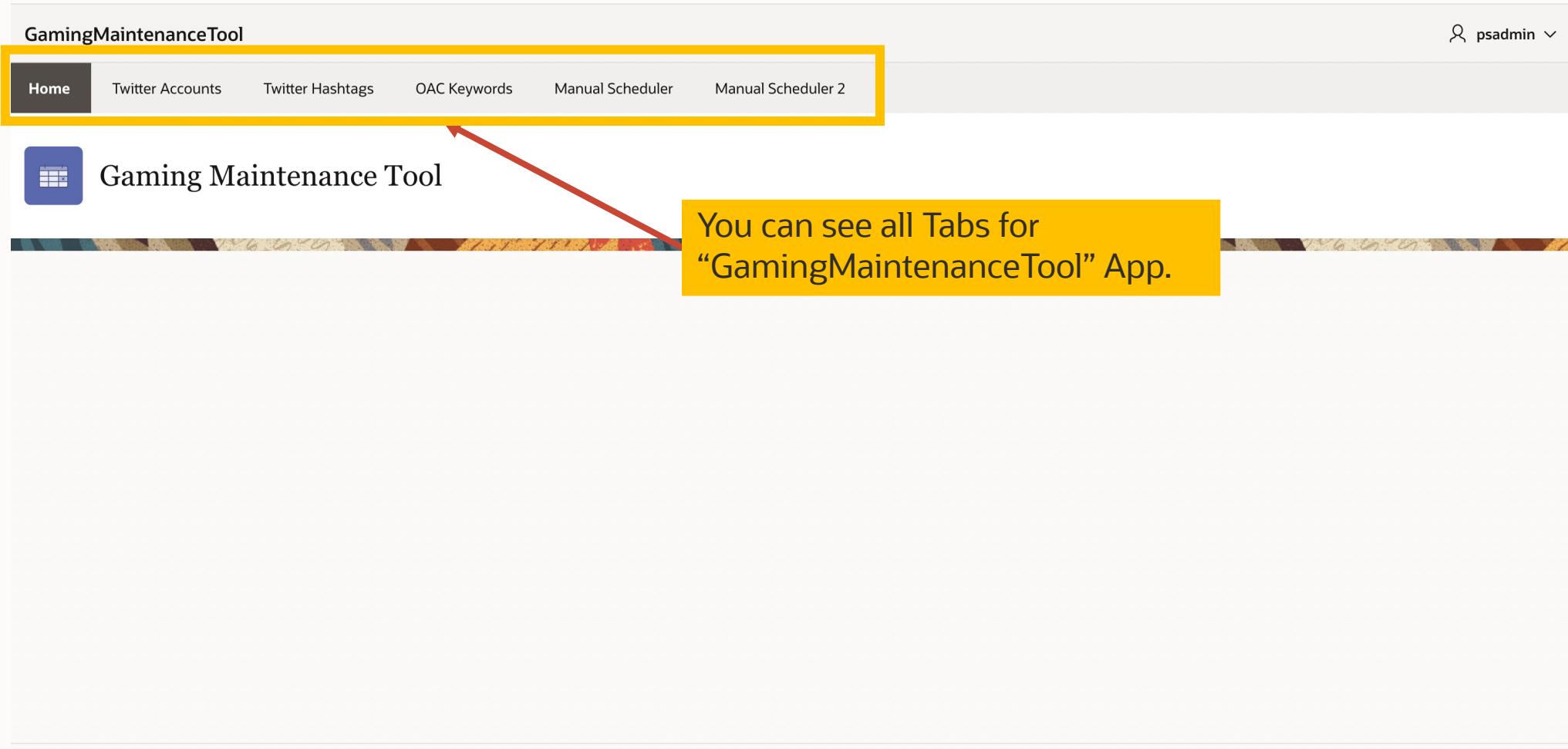
- Row 1: 0 - Global Page - Desktop, 1 - Home, 2 - Twitter Accounts, 3 - Twiiter Account Detail, 4 - Twitter Keywords, 5 - Twitter Keyword Detail.
- Row 2: 6 - Twitch Accounts, 7 - Twitch Account Detail, 9999 - Login Page.

A yellow callout box with a black border and white text is overlaid on the central grid icon, containing the text: "You can see all pages implemented for 'GamingMaintenanceTool' App." A yellow arrow points from the bottom of this callout box towards the 'Create Page >' button located in the top right corner of the main content area.

On the right side of the screen, there's a sidebar with sections for 'About', 'Tasks', and 'Recently Edited Pages'. The 'About' section provides a brief overview of the application home page. The 'Tasks' section includes links for Delete this Application, Copy this Application, Manage Backups, and Browse by Facets. The 'Recently Edited Pages' section lists several pages that have been modified recently.

At the bottom of the page, there are footer links for psadmin, psadmin, and en, along with copyright information: Copyright © 1999, 2021, Oracle and/or its affiliates. and Application Express 21.1.7.

Gaming Maintenance Tool Home Page



Twitter Accounts Maintenance

GamingMaintenanceTool  psadmin 

1 Twitter Accounts  Select “Twitter Accounts” Tab.

2  Click to modify.

Username	Account Name
askps_uk	PlayStation Help
fnccompetitive	Epic
fncreate	Epic
playstation	PlayStation Channels
playstationeu	PlayStation Channels
playstationuk	PlayStation Channels
EAMaddenNFL	EA Madden
LittleBigPlanet	Sumo
ArcSystemWorksU	ArcSystemWorks
R6esportsNA	Ubisoft
NRSEsports	Warner Bros

Twitter Account Detail Maintenance

GamingMaintenanceTool  psadmin ▾

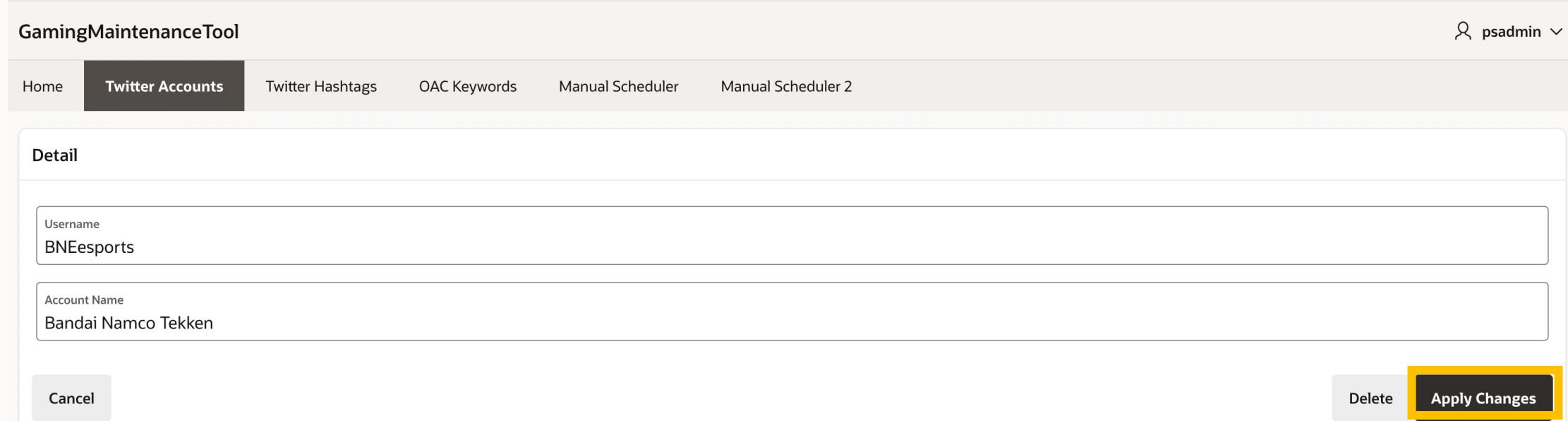
Home Twitter Accounts Twitter Hashtags OAC Keywords Manual Scheduler Manual Scheduler 2

Detail

Username
BNEsports

Account Name
Bandai Namco Tekken

Cancel **Delete** **Apply Changes**



Twitter Hashtags Maintenance

GamingMaintenance Tool psadmin

Home Twitter Account 1 Twitter Hashtags Select “Twitter Hashtag” Tab.

Q ▾ Go Actions ▾ Create

	Hashtag	Description
2	 PSN	Click to modify. Generic Playstation Tag #PSN
	 PSNDown	Playstation Tag #PSNDown when Down
	 PS4	Playstation PS4 #PS4
	 PS5	Playstation Tag for PS5 #PS5
	 XBOX	xbox Tag #XBOX

1 - 5

Twitter Hashtags Maintenance Detail

GamingMaintenanceTool  psadmin ▾

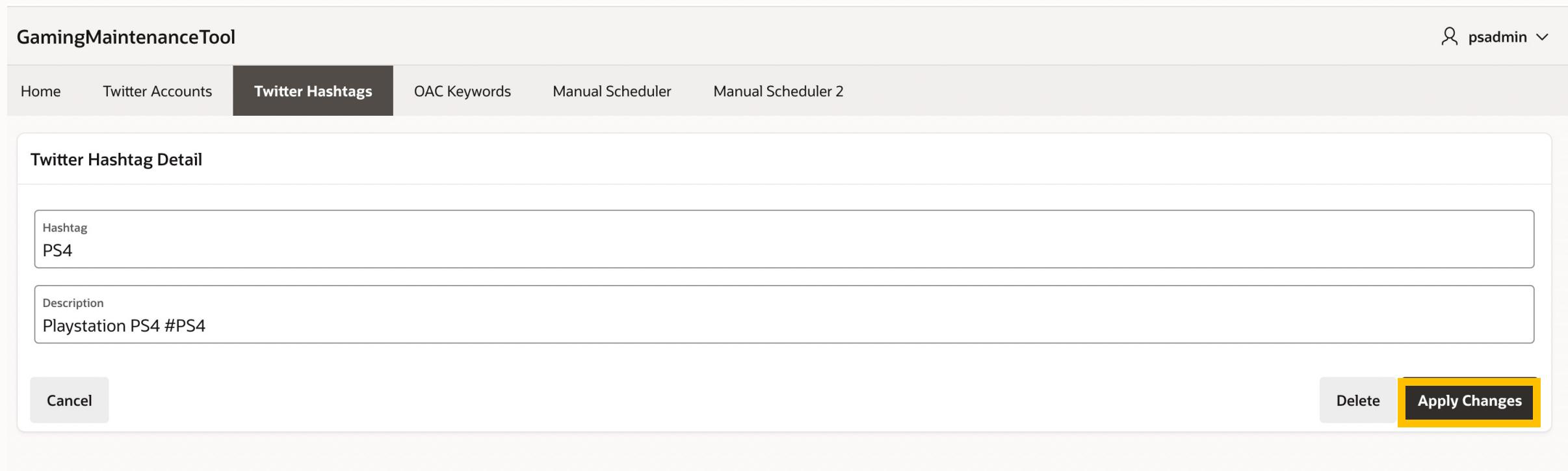
Home Twitter Accounts **Twitter Hashtags** OAC Keywords Manual Scheduler Manual Scheduler 2

Twitter Hashtag Detail

Hashtag
PS4

Description
Playstation PS4 #PS4

Cancel **Delete** **Apply Changes**



Twitter OAC Keywords Maintenance

GamingMaintenanceTool psadmin

Home Twitter Accounts Twitter Has 1 OAC Keywords Select “OAC Keywords” Tab.

Keyword Lowercase Keyword Capitalized

Keyword Lowercase	Keyword Capitalized
playstation tournaments	PlayStation Tournaments
open series	Open Series
flash rounds	Flash Rounds
dojo fighting fest	Dojo Fighting Fest
lostys tower	Losty's Tower
summer win-a-thon	Summer Win-A-Thon
winter win-a-thon	Winter Win-A-Thon
spring win-a-thon	Spring Win-A-Thon
sackboy knit-speedrun challenge	Sackboy Knit-Speedrun Challenge
sackboy faster blaster	Sackboy Faster Blaster
rainbow six siege three round blitz	Rainbow Six Siege Three Round Blitz
eMLS fan challenge	eMLS Fan Challenge
jlingz fut challenge	JLINGZ FUT Challenge

2 Click to modify.

Create

Twitter OAC Keyword Detail Maintenance

GamingMaintenanceTool  psadmin ▾

Home Twitter Accounts Twitter Hashtags OAC Keywords Manual Scheduler Manual Scheduler 2

OAC Keyword Detail

Keyword Lowercase
fgc arcade

Keyword Capitalized
FGC Arcade

[Cancel](#) [Delete](#) [Apply Changes](#)

Twitter Scheduler for one Twitter Account

GamingMaintenanceTool psadmin

Home Twitter Accounts Twitter Hashtags OAC Keywords **Manual Scheduler** Manual Scheduler 2

Schedule a Manual Task for One Twitter Account

< > today October 2022 month list

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

The calendar for October 2022 shows the following dates:

- Week 1: 25, 26, 27, 28, 29, 30, 1
- Week 2: 2, 3, 4, 5, 6, 7, 8
- Week 3: 9, 10, 11, 12, 13, 14, 15
- Week 4: 16, 17, 18, 19, 20, 21, 22
- Week 5: 23, 24, 25, 26, 27, 28, 29

The date 12 is highlighted with a yellow box and a black border.

Twitter Scheduler for Multiple Twitter Accounts

GamingMaintenanceTool  psadmin ▾

Home Twitter Accounts Twitter Hashtags OAC Keywords Manual Scheduler **Manual Scheduler 2**

Schedule a Manual Task for Multiple Twitter Accounts

< > today

October 2022

month week day list

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

Twitter Scheduler Task for Multiple Twitter Accounts

GamingMaintenanceTool  psadmin ▾

Home Twitter Accounts Twitter Hashtags OAC Keywords Manual Scheduler Manual Scheduler 2

Plan a Twitter Accounts List Refresh

Twitter Account List

- ArcSystemWorksU
- BNEesports
- CallofDuty
- EAMaddenNFL

Execution DateTime 

dd/mm/yyyy, --:--

From date  To date 

Execution Reason

Cancel Create

Twitch Accounts Maintenance

The screenshot shows the "GamingMaintenanceTool" interface. At the top, there is a navigation bar with links for "Home", "Twitter Accounts", "Twitter Keys", and "Twitch Accounts". The "Twitch Accounts" link is highlighted with a yellow box and a red arrow pointing to it from the text "Select ‘Twitch Accounts’ Tab.". Below the navigation bar is a search bar with a dropdown menu, a "Go" button, and an "Actions" dropdown. To the right is a "Create" button. The main area is a table with two columns: "Account Name" and "Account Interest". The table lists various Twitch accounts and their interests. A yellow box highlights the first row, and a red arrow points to the edit icon (pencil) in the "Account Name" column of that row. The row number "2" is also visible next to the edit icon. The table data is as follows:

Account Name	Account Interest
https://twitch.tv/loltyler1	streamer
https://twitch.tv/nickmercs	streamer
https://twitch.tv/PlayStation	competitive
https://twitch.tv/hasanabi	streamer
https://twitch.tv/riotgames	competitive
https://twitch.tv/esl_csgo	competitive
https://twitch.tv/chess	competitive
https://twitch.tv/summit1g	streamer
https://twitch.tv/pokimane	streamer
https://twitch.tv/shroud	streamer
https://twitch.tv/fortnite	competitive
https://twitch.tv/esl_dota2	competitive
https://twitch.tv/vgbootcamp	competitive

Twitch Account Detail Maintenance

The screenshot shows a web-based application titled "GamingMaintenanceTool". The top navigation bar includes links for "Home", "Twitter Accounts", "Twitter Keywords", and "Twitch Accounts", with "Twitch Accounts" being the active tab. A user profile icon for "psadmin" is also present. The main content area is titled "Twitch Account Detail" and displays a "New" entry with the URL "https://twitch.tv/xqcow". Below this, there is a field labeled "Account Interest" containing the value "streamer". At the bottom of the form are three buttons: "Cancel", "Delete", and "Apply Changes", where "Apply Changes" is highlighted with a yellow border.

GamingMaintenanceTool

psadmin

Home Twitter Accounts Twitter Keywords Twitch Accounts

Twitch Account Detail

New
https://twitch.tv/xqcow

Account Interest
streamer

Cancel Delete Apply Changes

Live Labs



Live Labs for APEX

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Number of Workshops: 24

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Intermediate (10)

Advanced

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Paid Credits (22)

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Sprints (2)

Run on Gov Cloud

ADB for Free

▼ Workshop Series

Autonomous DB Shared (1)

DBA Masterclass Series

Autonomous DB Dedicated

MovieStream Series

DBA Essentials

In-database Machine Learning Series

Workshops and Sprints

Building an App from a Spreadsheet using Oracle APEX



Create an application in minutes by simply uploading a spreadsheet!

⌚ 45 mins 44315 Views

Build a Starter Online Shopping App using Oracle APEX!



In this workshop, developers will learn how to take advantage of Oracle APEX components to create a (..)

⌚ 2 hrs 38887 Views

Build a Movies Watchlist Application using Oracle APEX



Quickly develop a high-quality application to discover movies and create a personal watchlist.

⌚ 2 hrs 34086 Views

Low Code Development Oracle APEX on Autonomous Database



Quickly develop and deploy compelling application that solves real problems and provides immediate (..)

⌚ 2 hrs 17488 Views

Building an App using REST Data Sources for Oracle Autonomous Cloud Services



You will build an APEX application using REST Data Sources for Oracle Autonomous Cloud Services.

⌚ 50 mins 12827 Views

Building a Proof-of-Concept for Oracle Autonomous Cloud Services (20.1)



Build an APEX app from a napkin design on ADB using QuickSQL.

⌚ 1 hr 10930 Views

Low Code Development with Oracle Autonomous Database



Create a low code application on Autonomous Database using QuickSQL, Database Actions and APEX.

⌚ 1 hr, 30 mins 9278 Views

APEX + Server-Side JavaScript (MLE)



Using In-Database Server-Side JavaScript in Oracle Application Express (APEX) application.

⌚ 55 mins 8059 Views

Extend your application with advanced chat-bots



Use ADB, APEX, Rest APIs and Digital Assistant to interact with your customers.

⌚ 2 hrs 7969 Views



APEX Live Labs: Online Shopping App

Build a Starter Online Shopping App using Oracle APEX!

 Share

 Start

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 2 hours

Outline

- Installing Sample Tables
- Adding Columns to the Products Table
- Creating Database Objects
- Creating the Application
- Creating the Order Page
- Creating the Shopping Cart Page
- Creating the Add to Cart Page
- Improving Products Page
- Improving the App

Prerequisites

- Familiarity with Oracle Database and Oracle APEX is desirable, but not required

About This Workshop

This workshop walks you through the creation of a Shopping Cart application that allows administrators users to manage the products, customers, and stores.

On the other side, customers can review and add products to the Shopping Cart and eventually proceed to checkout.

APEX Live Labs: Maps and Spatial App

Get Started with Maps and Spatial in APEX

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Watch on YouTube

YouTube icon

1 hour, 15 minutes

Outline

- Install Sample Maps Application
- Create map with wizard
- Create map from scratch
- Add spatial analysis

Prerequisites

- APEX 21.1+ required, APEX 21.2 recommended.
- Familiarity with APEX and Spatial is desirable, but not required
- Some understanding of cloud and database terms is helpful
- Familiarity with Oracle Cloud Infrastructure (OCI) is helpful

About This Workshop

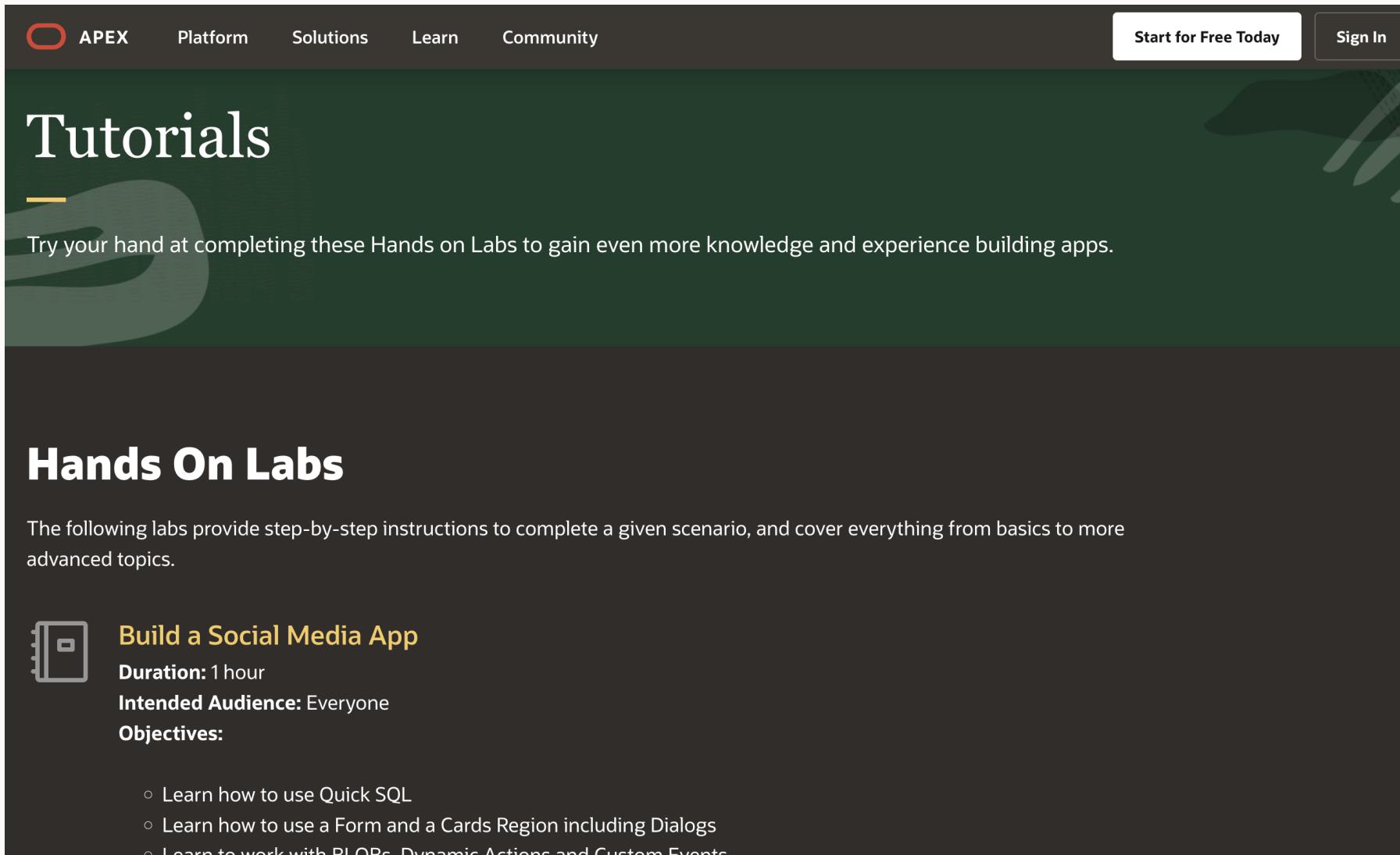
In this workshop you will explore mapping in Oracle APEX using the Map Region feature and Oracle Spatial. You will install and explore a pre-built sample application with many useful mapping examples. You will then create your own application with and configure maps both using a wizard and from scratch.

Other Workshops you might like

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APEX Tutorials



The screenshot shows the Oracle APEX Tutorials landing page. At the top, there's a navigation bar with links for APEX, Platform, Solutions, Learn, and Community. To the right of the navigation are two buttons: "Start for Free Today" and "Sign In". Below the navigation, a large section titled "Tutorials" features a sub-section titled "Hands On Labs". A descriptive paragraph encourages users to try hands-on labs to gain more knowledge and experience building apps. Below this, a specific lab titled "Build a Social Media App" is highlighted, showing its duration (1 hour), intended audience (Everyone), and objectives, which include learning Quick SQL, using a Form and Cards Region, and working with PL/SQL, Dynamic Actions, and Custom Events.

APEX Platform Solutions Learn Community

Start for Free Today Sign In

Tutorials

Try your hand at completing these Hands on Labs to gain even more knowledge and experience building apps.

Hands On Labs

The following labs provide step-by-step instructions to complete a given scenario, and cover everything from basics to more advanced topics.

 **Build a Social Media App**

Duration: 1 hour

Intended Audience: Everyone

Objectives:

- Learn how to use Quick SQL
- Learn how to use a Form and a Cards Region including Dialogs
- Learn to work with PL/SQL, Dynamic Actions and Custom Events

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Customers



Vodafone Group

- British communications company, providing mobile, fixed, broadband and TV
- Uses APEX to manage entire infrastructure lifecycle from provisioning to retirement
- APEX was selected as it is flexible, easy to customize, and allows for developing applications incredibly quickly with minimal coding

Approved customer reference



MineSense accelerates time to value

- Leader in intelligent digital mining improves operational profitability and sustainability
- ADW ingests GBs of daily IoT sensor data at 2x faster performance and with flexible auto-scaling
- 65% reduction in DBA workloads increased productivity on development and reporting
- Built-in APEX speeds development to deployment of new low code apps from 6 weeks to 1 week



Approved customer reference

Siemens Mobility reduces App Dev costs by 90%

- Siemens Mobility GmbH is a specialized part of the Siemens Group in Germany targeted to the segment of the railway electrification.
- Enhanced data and application availability and minimized the operation overhead by moving custom applications and new app dev from on premises to APEX on Oracle cloud in just 2 weeks
- Maximized the convenience of developing new applications, improved integration of all necessary components and saw 90 % cost savings compared to On-premise solution with APEX and Autonomous Transaction Processing



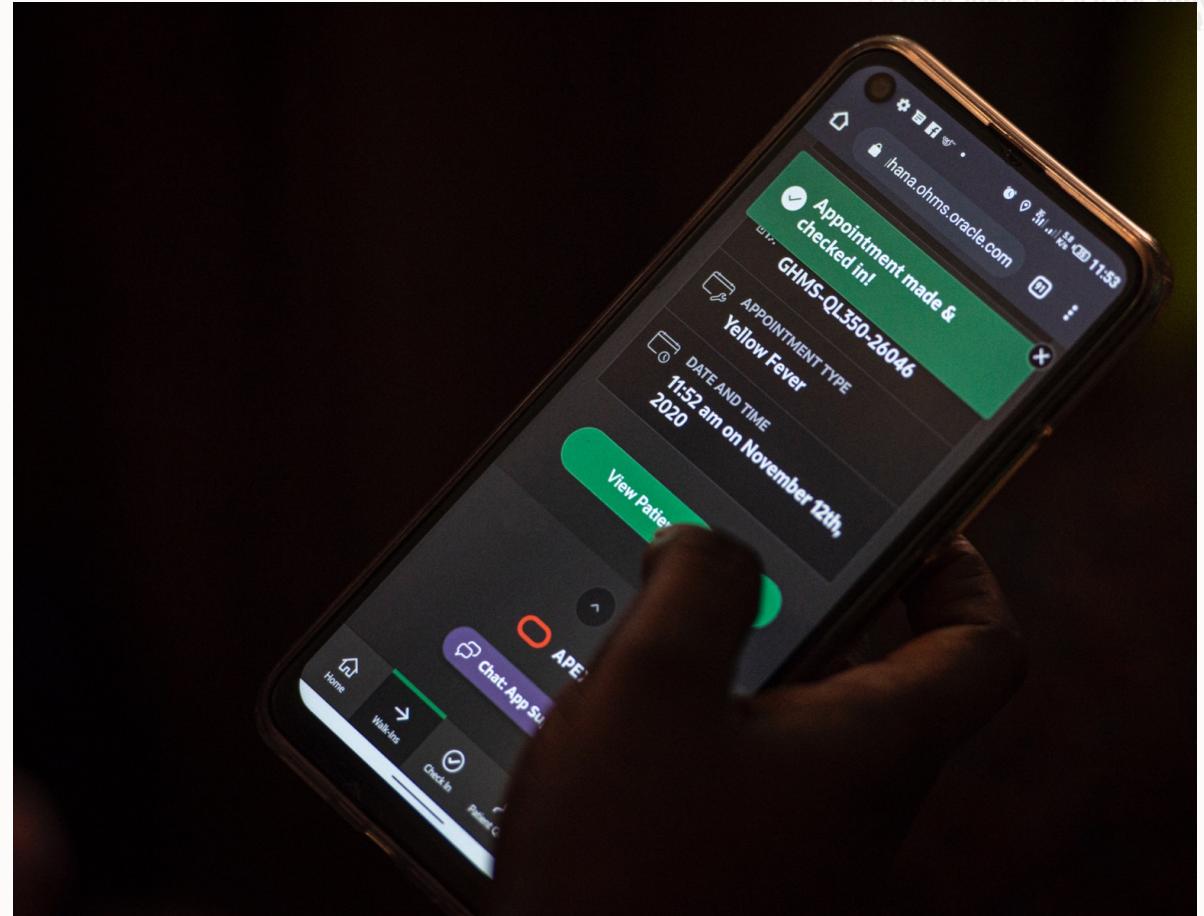
Approved customer reference

Conclusion



Oracle APEX Adoption in numbers

- 500,000+ developers
- 2+ Million Apps created
- 6,000+ new apps every day
- 50,000+ customers
- 150+ partners



Takeaways

- ✓ Oracle offers low code solutions for solving all your business needs
- ✓ Apps built across the organization with varying skill levels
- ✓ Apps built iteratively in agile methodology and delivered quickly with quality

Additional resources

Product Information

[Oracle APEX Application Development](https://apex.oracle.com/en/learn/tutorials/)

[Oracle APEX](https://apex.oracle.com/en/learn/tutorials/)

Tutorials

<https://apex.oracle.com/en/learn/tutorials/>

Learning Path

<https://mylearn.oracle.com/ou/learning-path/oracle-apex-foundations/112444>

<https://apex.oracle.com/go/foundations>

LiveLabs

<https://apexapps.oracle.com/pls/apex/dbpm/r/livelabs/livelabs-workshop-cards?search=APEX>

Asktom

https://asktom.oracle.com/pls/apex/f?p=100:551:106456652156389:::P551_INVITED,P551_CLASS_ID:N,20943&cs=1A33F0B7EA8AD274D48DF201F106A345E

Apex World

<https://apex.world/ords/f?p=100:1>

Blogs

<https://blogs.oracle.com/apex/>

Social Media

[@OracleAPEX](#)

[@OracleDatabase](#)

GitHub

<https://github.com/OracleDataManagementSpain/APEXdemo>

Thank you.

