



# Oracle APEX 23.1

## New Features

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**Name**

Presenter's Title

Organization, Division or Business Unit

Month 00, 2023

# What's New in Oracle APEX 23.1?

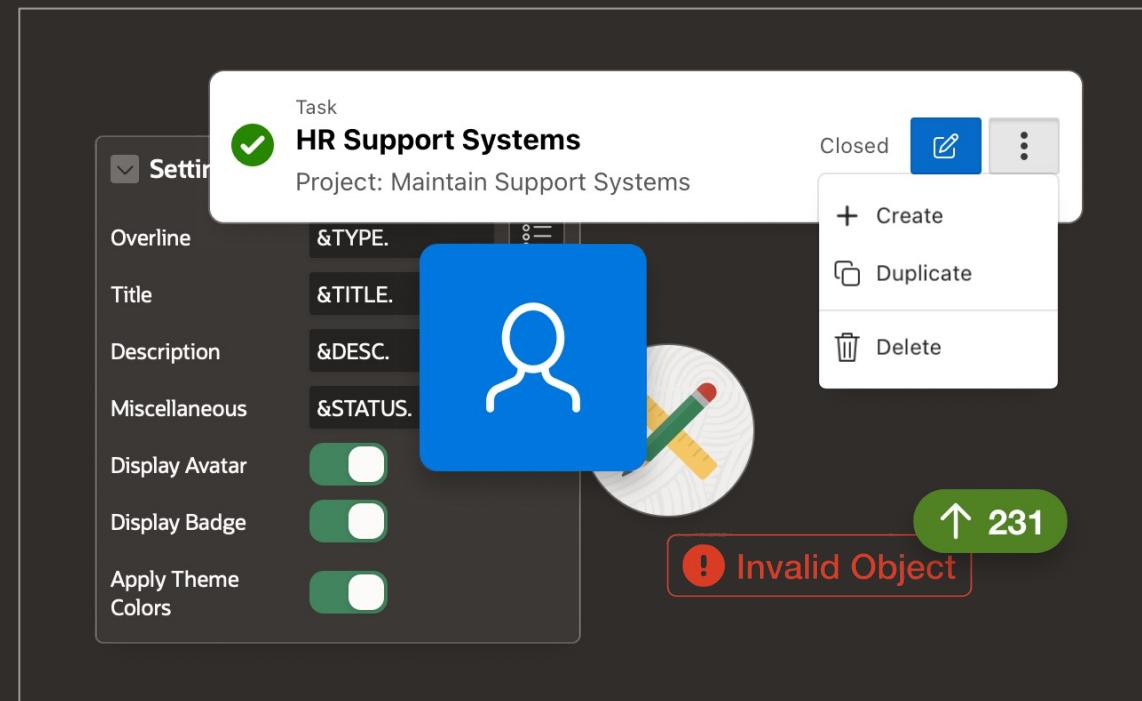
- Template Components
- PWA Push Notifications
- Developer Experience
- General Builder Improvements
- New and Updated Components
- Additional Updates and Enhancements



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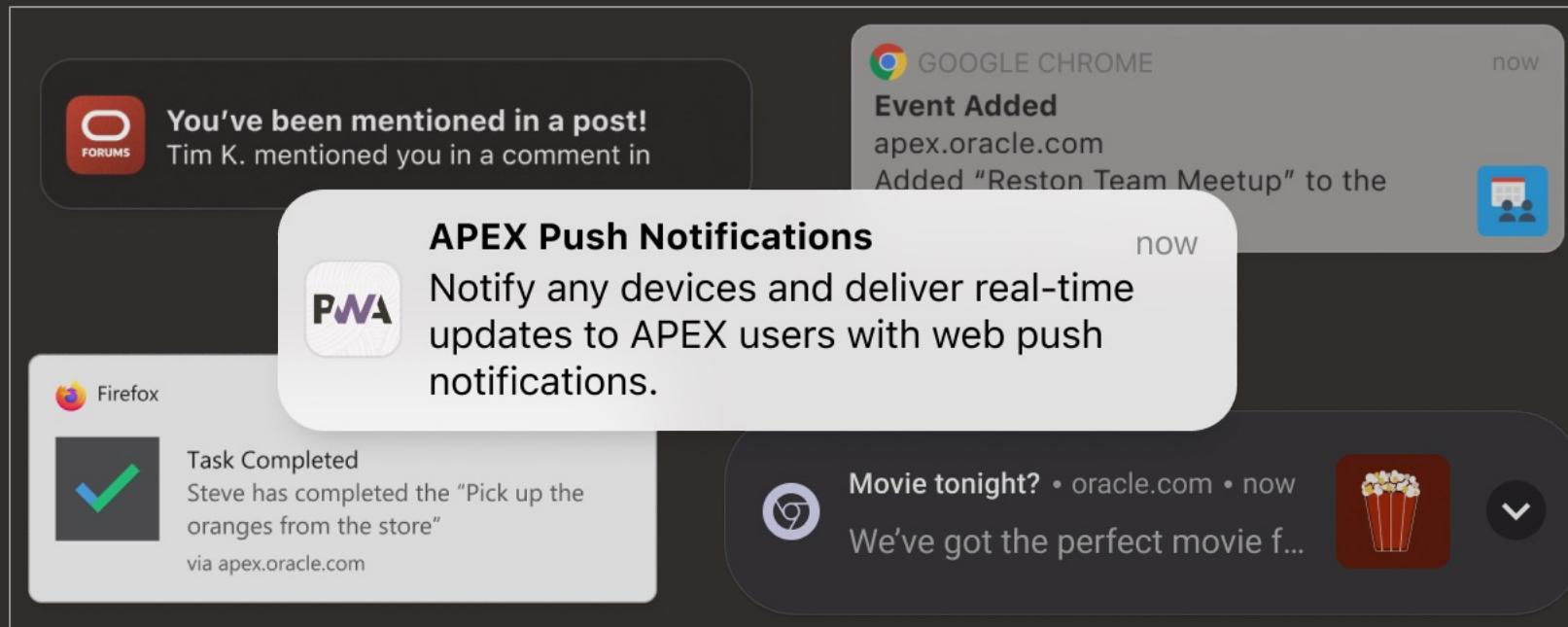
# Template Components

Introducing Template Components, a new plug-in type for building re-usable UI components with support for actions, menus, and custom attributes within Page Designer. These components can be rendered standalone as regions displaying one or multiple rows of data, and can also be within reports as partials for a column.



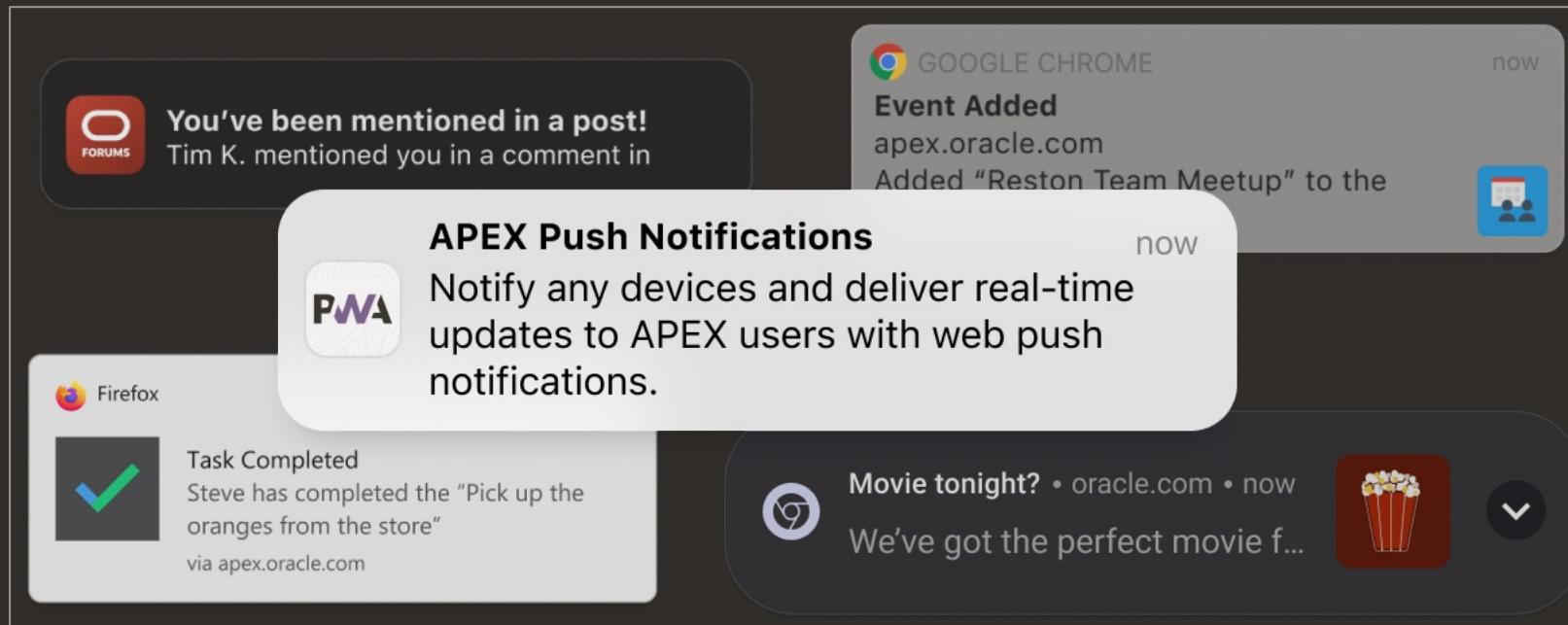
# PWA Push Notifications

Low code push notifications, made available with a single switch. Easily notify desktop and mobile users who've opted-in to receive push notifications.



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# Developer Experience

## Modernized Object Browser

The Object Browser delivers a more accessible and streamlined user experience that makes managing database objects easier than ever before.

## Page Processing Improvements

Group a sequence of page processes to offload processing to the background or just simplify maintainability of conditional execution.

## REST Data Source Enhancements

REST Data Sources have been updated to provide more control over source discovery and responses.

# General Builder Improvements

## Copy Pages from Create Page

Quickly create copies of pages from the current application or other apps directly from the Create Page wizard. The new Create Page as Copy button available in the Create Page wizard sends you right to the Copy Page wizard, where you can follow the familiar steps to have a copy of a page in no time!

## Save and Run from Code Editor

Run pages in Page Designer directly from a code editor dialog without closing using the new Save and Run pages functionality in code editors.

## Context Sensitive Help

Links to documentation resources in APEX Builder applications have been updated to include context to allow the documentation to redirect to appropriate book or chapter, increasing the quality of all documentation links from within the APEX Builder.

# General Builder Improvements

## Plug-In Attributes Updates

The item plug-in infrastructure has been extended to support 25 attributes, up from 15. It is also now possible to define and assign Groups for custom attributes, making it easy to group similar plug-in attributes together.

## Property Graph Support

Native support for Property Graphs in database 23c. Build APEX Page Components directly on a Property Graph using PQL queries. Build shared LOVs, Automations and Search Configurations directly on Property Graphs using PQL.

## SQL Developer Web Integration

Open SQL Developer Web directly from the SQL Workshop menu in the menu bar. Supported on ORDS version 23.1 and must be configured at the instance level. For workspaces with one associated DB schema that is REST-enabled, SQL Developer Web will open in a separate tab. Otherwise, developers will be prompted by a modal dialog with a list of the schemas to either connect or REST-enable.

# General Builder Improvements

## Capture ECID in Webservice Log

Configure external web services by passing the Execution Context ID for end-to-end tracing.

## Application Continuity

A new app security attribute, Session State Commit, has been added. This controls how changes to session and item values plus accompanying commits are handled. These are deferred to the end of request processing for new apps, while old apps have the changes immediately written and committed.

## Friendly URLs in Builder

The APEX Builder has been updated to use friendly URLs, paving the way for future enabling of PWA in Builder.

# Improvements to APEX Administration

## Admin Digest

Monitor the health of your Instances, Workspaces, and Schemas with daily metrics and trend charts, made available daily in the new APEX Administrator Digest. View top Workspaces, Apps, and Users, investigate Workspace details, and monitor everything through a single Dashboard.

## Auto Provisioning Restrictions

Managing the creation of workspaces in an instance just got easier with a new UI and API that allows you to define and manage a block list of email patterns. Query a block list when auto-provisioning a workspace to restrict email addresses that match the pattern on the block list.

## New APEX\_APPLICATION\_ADMIN API

The APEX\_APPLICATION\_ADMIN API has been added, allowing developers to programmatically interface with admin jobs.

## Universal Theme and UX Improvements

- Universal Theme has been updated with new built-in Template Components, an enhanced Region Display Selector, improved page rendering performance, and more.
- Application icons generated for PWAs have been updated to apply the appropriate masking so it looks appropriate on more platforms and devices.
- Easily download and upload themes directly from the Theme Roller interface from the new Actions menu button.
- Updates to the Hero and Title Bar templates provide a new Up button position. The Standard and Report region templates have also been updated to include a new Alignment Template Option, allowing for additional control over the alignment of Order By items.

# Approvals Component Enhancements

The Approvals component now supports due dates for creating approval tasks.

## Due Date Item

The Due Date item is now available as a property for the Human Task - Create process plugin. When specified, this value will override the due date settings for the underlying task definition.

## Updated Create Task API

The APEX\_APPROVAL.CREATE\_TASK API now includes a due date parameter. When specified, this value will override the due date settings for the underlying task definition.

# Additional Updates and Enhancements

## New Color Picker

The old JET color picker has been replaced in the APEX Theme Roller, Page Designer, and IR/IG Highlights with a new web component based color picker. This color picker can be created dynamically and has the same settings as the old color picker with a JET color compatible object.

## REST-Enabled Objects

REST-enabling functionality for database objects has been removed from the APEX Object Browser and placed under APEX RESTful Services. Users can now create and modify RESTful services from the RESTful Enabled Objects page.

## Accessibility Improvements

Plain text attributes have been updated to properly escape HTML and ARIA attributes and prevent HTML markup from being exposed to screen readers.

## JavaScript Library Upgrades

We've updated several JavaScript libraries to newer releases

## Learn More...

What's New in Oracle APEX 23.1?

<https://apex.oracle.com/en/platform/features/whats-new-231/>

Oracle APEX 23.1 New Features Videos

<https://apex.oracle.com/go/Playlist-231>

# Oracle APEX Training and Certification

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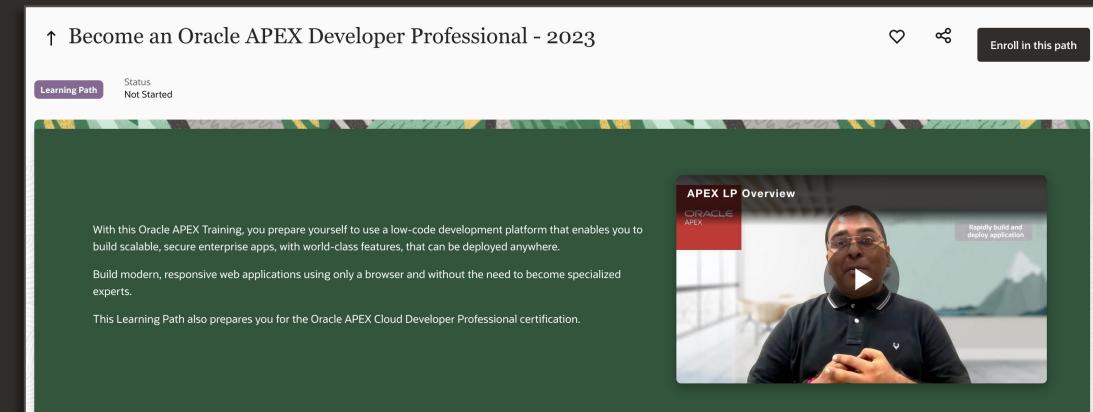
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# Become an Oracle APEX Specialist

## Oracle APEX Developer Professional Course

-  **Soup-to-nuts** covering complete low-code app dev with Oracle APEX
-  **12 + hours** of expert training delivered by the APEX Product Team
-  **Hands-on-Labs** to practice along with the training videos



↑ Become an Oracle APEX Developer Professional - 2023

Learning Path Status: Not Started

With this Oracle APEX Training, you prepare yourself to use a low-code development platform that enables you to build scalable, secure enterprise apps, with world-class features, that can be deployed anywhere.

Build modern, responsive web applications using only a browser and without the need to become specialized experts.

This Learning Path also prepares you for the Oracle APEX Cloud Developer Professional certification.

**APEX LP Overview**

ORACLE APEX

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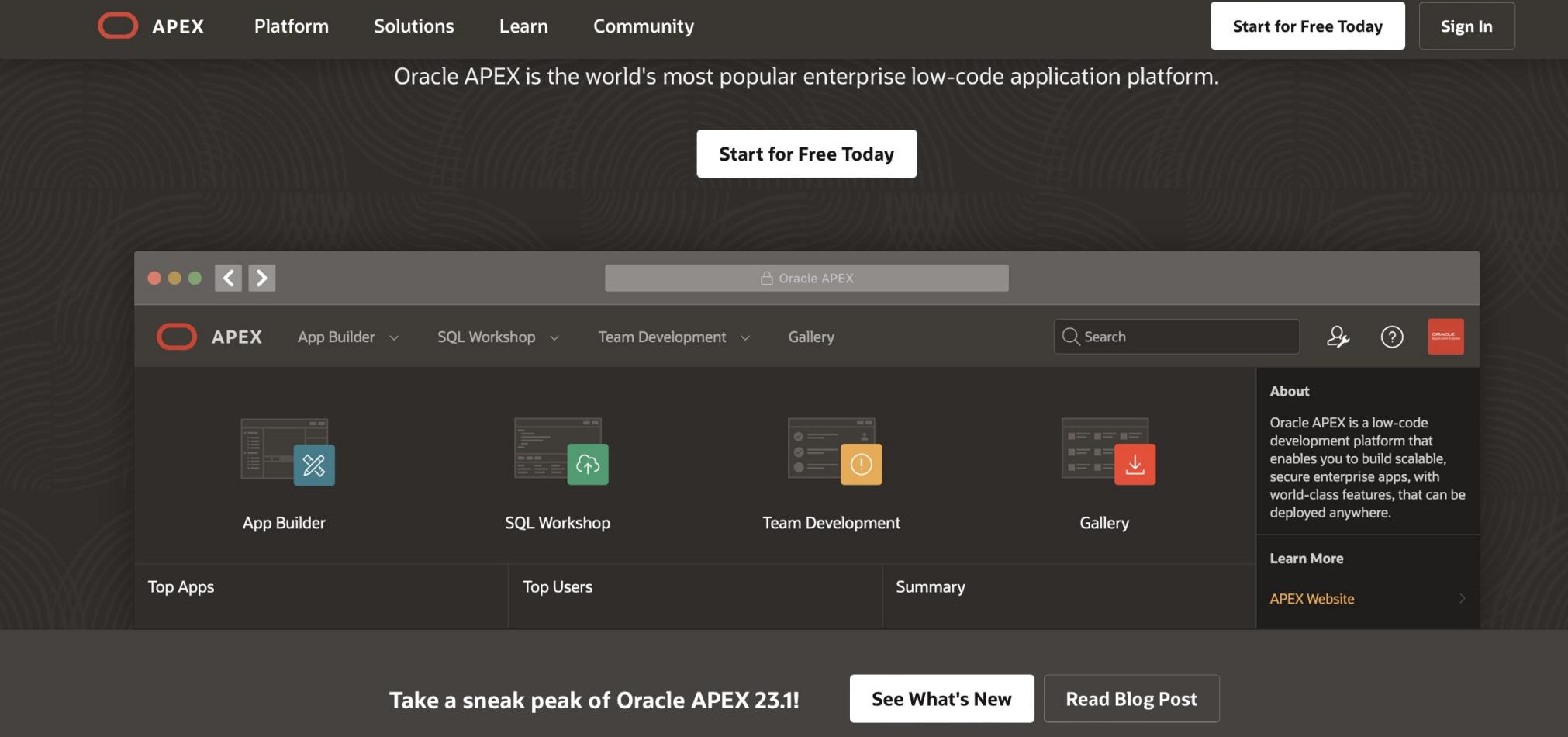
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# Everything about Oracle APEX

<https://apex.oracle.com>



The screenshot shows the Oracle APEX homepage. At the top, there is a navigation bar with links for APEX, Platform, Solutions, Learn, and Community. To the right of the navigation bar are buttons for "Start for Free Today" and "Sign In". Below the navigation bar, a banner states "Oracle APEX is the world's most popular enterprise low-code application platform." and features a "Start for Free Today" button. The main content area displays a screenshot of the Oracle APEX application interface, which includes tabs for App Builder, SQL Workshop, Team Development, and Gallery. Below these tabs, there are icons and labels for App Builder, SQL Workshop, Team Development, and Gallery. At the bottom of the interface, there are links for Top Apps, Top Users, and Summary. To the right of the interface, there is a sidebar with sections for "About", "Learn More", and a link to the "APEX Website". At the very bottom of the page, there are buttons for "See What's New" and "Read Blog Post".

# Thank you

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data in new ways, discover insights,  
unlock endless possibilities.

