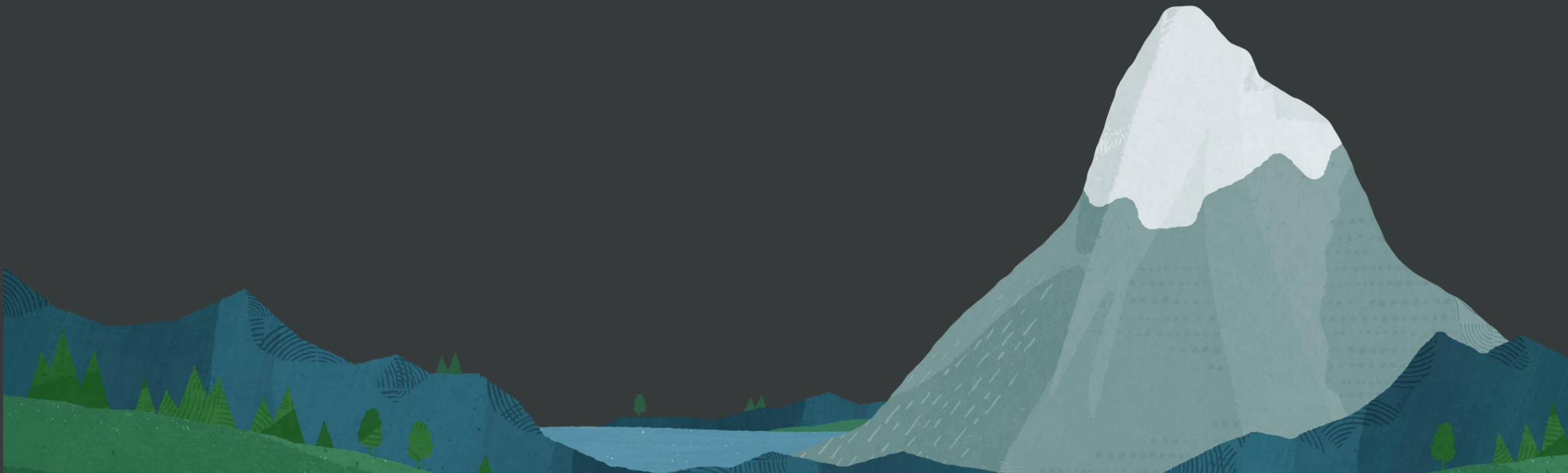


ORACLE | APEX

# Oracle APEX 24.2

New Features



*“ We're now building a lot of our applications in **APEX**. And our productivity gains are, again, a factor of **10**. And we build the applications in **one tenth** the time, or **one tenth** the amount of people, or at **one tenth** the cost. But these are not typical low-code applications. These are applications that can scale to **millions** of users and all over the world.”*

**- Larry Ellison**

*Founder & CTO, Oracle*

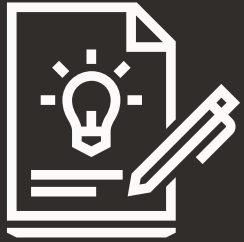
# What's New in Oracle APEX 24.2?

- AI-Assisted Development
- Provide RAG Data for AI Calls
- Integrating with Fusion Applications
- New and Updated Components
- Developer Experience
- User Experience
- Additional Updates and Enhancements



[apex.oracle.com](https://apex.oracle.com)

# Oracle APEX 24.2: What's New?



## Quickly create apps - APEX GenDev

Custom Data Models using AI



## Add AI Capabilities to APEX Apps

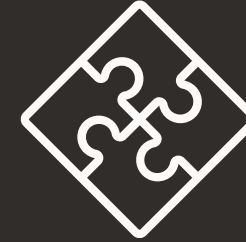
AI Configurations

Conditional RAG Sources

Search Configuration using

Oracle AI Vector Search

Generate Text with AI



## Build Enterprise-ready Apps

Extend Oracle Fusion Applications

JSON Data Sources

Workflow Templates

# AI-Assisted Development

---

# Create a Data Model from a Prompt

### APEX Assistant

Create a data model with the prefix PM to manage projects, milestones, tasks, task to-dos, task links, and comments, including multiple rows of data for each table. RT

 Certainly! Here's an optimized data model for managing projects, milestones, tasks, task to-dos, task links, and comments, along with constraints, sequences, and trigger definitions. The multiple rows of data inserts will be added to provide sample data for each table.

```
sql
-- create projects table
create table pm_projects (
  id                number          generated by default on null as identity
                    constraint pm_projects_pk primary key,
  name              varchar2(255) not null,
  description        varchar2(4000),
  created_on         date           not null,
  created_by         varchar2(255) not null,
  updated_on         date           not null,
  updated_by         varchar2(255) not null,
  row_version        integer        not null )
/
```

I have created the tables with appropriate relationships, constraints, and triggers for the data model. Each table also has multiple rows of sample data inserted.

1. Do you need any additional attributes for any specific entity?
2. Any specific integrity constraints or business rules you want to implement in this data model?

Create SQL Script

Type your message here

SQL Format Oracle SQL Quick SQL

Create your **Own Schemas** from a Prompt

Generate scripts either in **Oracle SQL** or **Quick SQL format**

Build a **Data Model** and generate **Sample Data**

<https://apex.oracle.com/go/blog-create-data-model-using-ai>



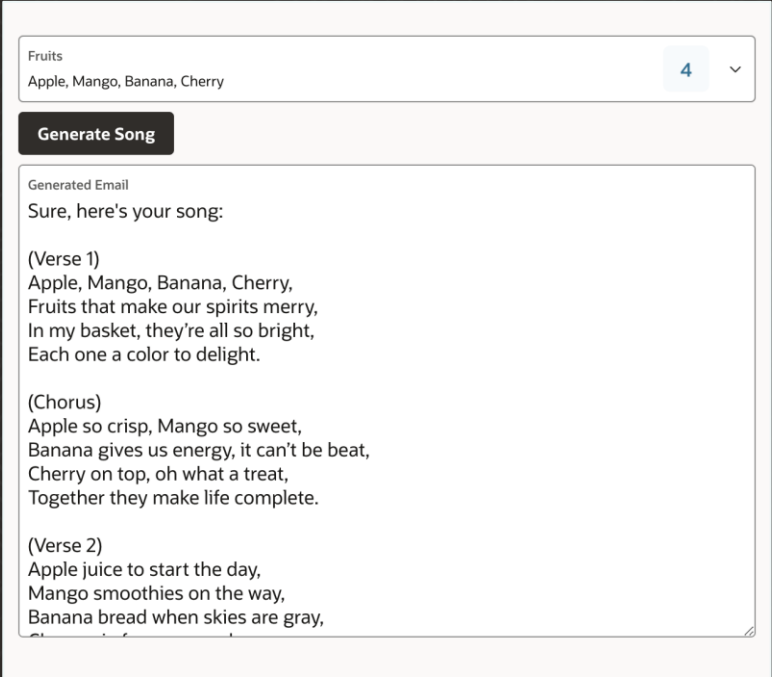
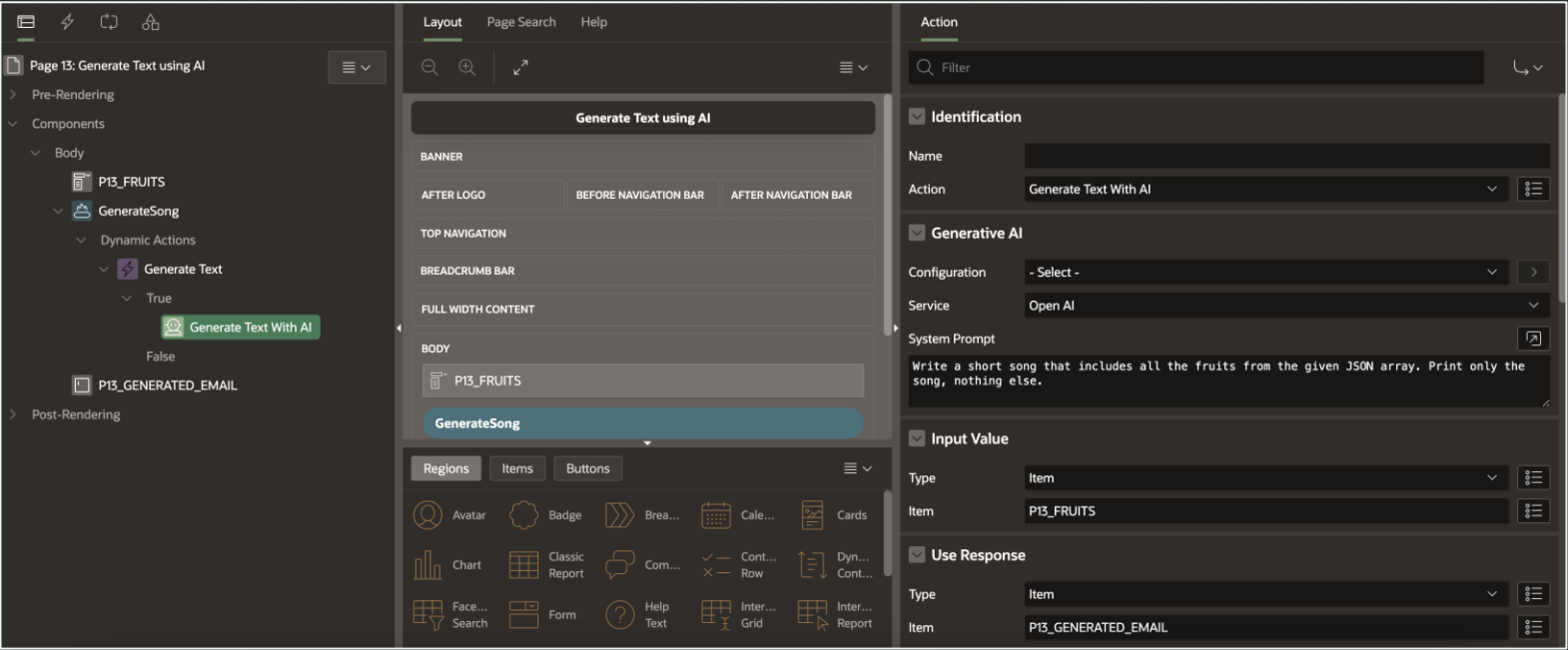
# Generate Text with AI - Overview

Generate a **one-time response** based on user content

Leverages **Generative AI services**

Can also leverage centralized settings defined in **AI Configurations**

Configurable **System Prompt, Input Value, and Use Response** attributes



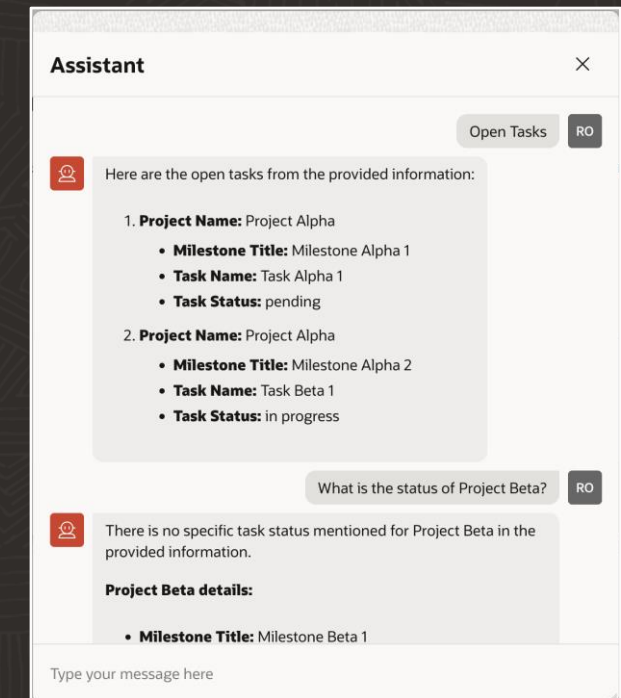
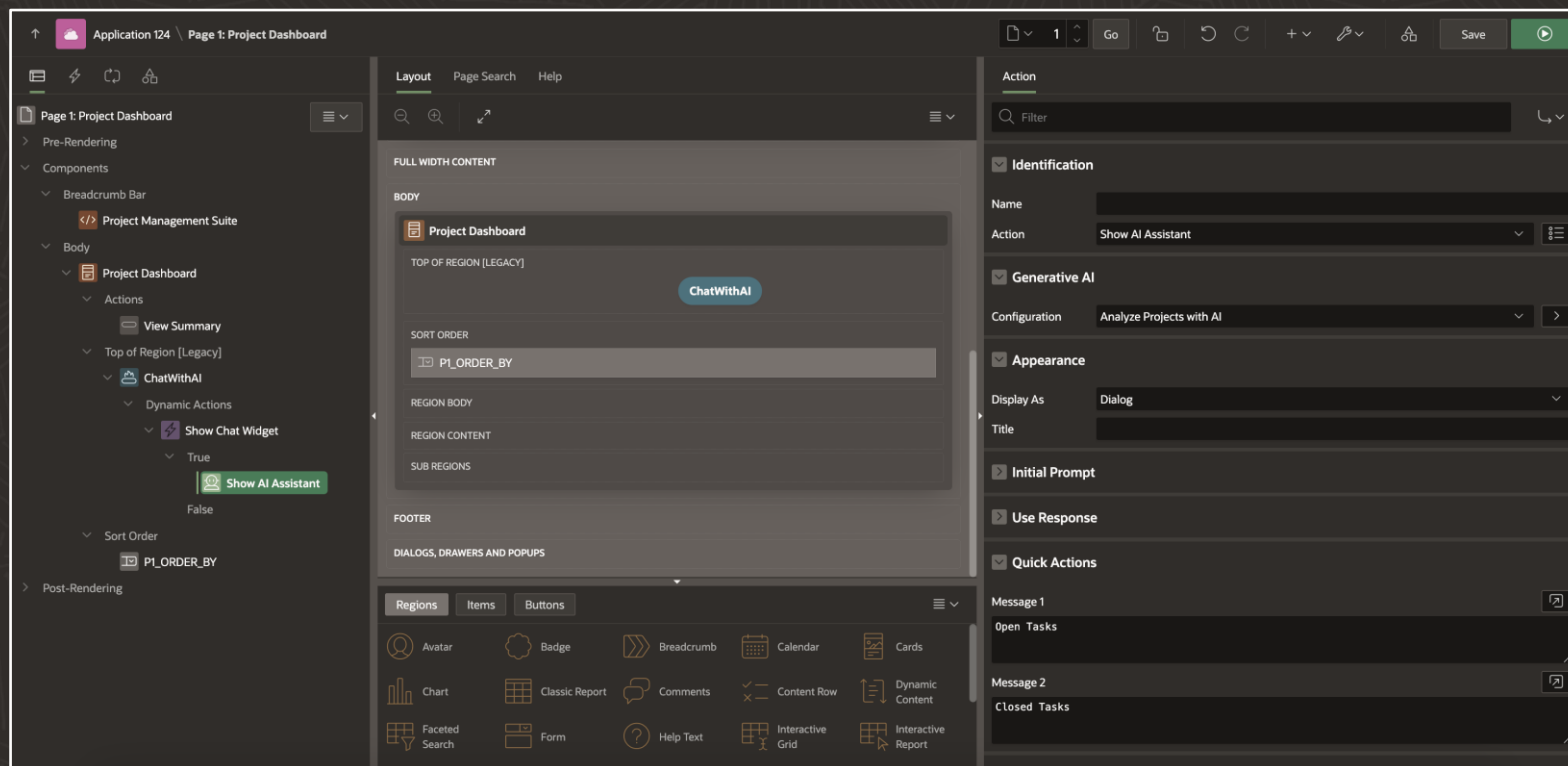
# Show AI Assistant Dynamic Action - Overview

A **Native Dynamic Action** in Oracle APEX which opens an AI Chat User Interface

Leverages **Generative AI Services** configured under Workspace Utilities

Rendered **Inline** or as a **Dialog**

Configurable **System Prompt** and **Welcome Message**



# What are Vector Providers?

The screenshot shows the 'Vector Provider DB ONNX Model' configuration page in the Oracle APEX interface. The breadcrumb trail at the top is 'Workspace Utilities \ Vector Providers \ Vector Provider Details'. The page title is 'Vector Provider DB ONNX Model'. There are three tabs: 'Show All', 'Identification', and 'Local Embedding'. The 'Identification' tab is active. It contains three fields: 'Provider Type' (a dropdown menu with options '- Select -', 'Database ONNX Model' (selected), 'Generative AI Service', and 'Custom PL/SQL'), 'Name' (a text field), and 'Static ID' (a text field with the value 'db\_onnx\_model'). Below these is the 'Local Embedding' section with two fields: 'ONNX Model Owner' (a dropdown menu with the value 'ROOPESH') and 'ONNX Model Name' (a dropdown menu with the value 'DOC\_MODEL'). At the top right of the form are buttons for 'Cancel', 'Delete', and 'Apply Changes'.

- A **Vector Provider** enables you to convert text into an embedding
- Available **Provider Types**: Database ONNX Model, Generative AI Service, Custom PL/SQL
- Vector Providers are stored at the **Workspace level**
- Use **APEX\_AI.GET\_VECTOR\_EMBEDDINGS** PL/SQL API to generate embeddings

<https://apex.oracle.com/go/search-configurations-vector>

# Vector Search Support in Search Configurations - Overview

### Search Configuration: Search Movies - Vector

CancelDeleteApply Changes

Show AllSettingsSubscriptionSourceColumn MappingIcon and DisplayLinkServer-Side ConditionAdvanced

#### Vector Attributes

ProviderONNX Model?

\* Column NameOVERVIEW\_V (Vector)?

Search TypeExact?

Distance MetricCosine?

#### Column Mapping

\* Primary Key Column?ID (Number)?

Primary Key Column 2?- Select Column -?

\* Title Column?TITLE (Varchar2)?

Subtitle Column?- Select Column -?

Description Column?OVERVIEW (Varchar2)?

Custom Column 1?- Select Column -?

Custom Column 2?- Select Column -?

Custom Column 3?- Select Column -?

Badge Column?- Select Column -?

Score Column?- Select Column -?

Last Modified Column?- Select Column -?

#### Icon and Display

Icon SourceInitials?

- Available exclusively on **Oracle Database 23ai**
- Create **Search Configurations** on the table with Vector Data type columns
- Configure **Index Usage**, **Distance Metrics**, **Max Vector Distance**, and **Max Results**
- Results are returned based on **Vector Similarity**

<https://apex.oracle.com/go/search-configurations-vector>

# Provide RAG Data for AI Calls

---

# What are AI Configurations?

The screenshot displays the 'Generative AI Configuration' interface. At the top, there's a breadcrumb trail: 'Application 124 \ Shared Components \ Generative AI Configurations \ Create / Edit'. Below this, the title 'Generative AI Configuration' is followed by 'Cancel', 'Delete', and 'Apply Changes' buttons. A tabbed interface shows 'Show All', 'Identification', 'Subscription', 'Generative AI', 'RAG Sources', 'Advanced', and 'Comments'. The 'Identification' tab is active, showing 'Name' (Summarize Project Details) and 'Static ID' (summarize\_project\_details). The 'Subscription' section has a 'Subscribe From' dropdown. A note states: 'This is the "master" copy of this Generative AI Configuration. No Generative AI Configuration subscribed to this configuration.' The 'Generative AI' section shows 'Service' set to 'Application Default'. The 'System Prompt' section contains a text area with the prompt: '1 Analyze the provided information and generate a concise summary in a single paragraph.'

- **AI Configurations** centralize key Generative AI settings.
- Customizable **System Prompt**, **Welcome Message**, and **RAG Sources**.
- Use it in both the **Show AI Assistant** and **Generate Text with AI** Dynamic Actions
- Accessible via the **APEX\_AI PL/SQL API** for seamless integration.

<https://apex.oracle.com/go/blog-ai-config-and-rag-sources>

# RAG Sources - Overview

The screenshot shows the 'RAG Source' configuration page in Oracle APEX. The page has a dark theme and a top navigation bar with tabs: 'Show All', 'Identification', 'Description', 'Source', 'Advanced', 'Server-Side Condition', 'Security', 'Configuration', and 'Comments'. The 'Identification' tab is active. Below the tabs, there are three main sections: 'Identification', 'Description', and 'Source'. The 'Identification' section has a 'Name' field with the value 'Project Details RAG Source'. The 'Description' section has a 'Description' field. The 'Source' section has a 'Type' dropdown menu set to 'SQL Query'. Below the dropdown, there is a 'SQL Query' field containing a SQL query. The query is a SELECT statement that returns project details, including project name, milestone title, task name, and task status. The 'Advanced' section at the bottom has a 'Maximum Tokens' field.

**RAG Source** [Cancel] [Delete] [Apply Changes]

**Identification**

Name: Project Details RAG Source

**Description**

Description:

**Source**

Type: SQL Query

SQL Query

```
1 SELECT
2   'Project Name : '
3   || PROJECT_NAME
4   || CHR(10)
5   || CHR(13)
6   || 'Milestone Title : '
7   || MILESTONE_TITLE
8   || CHR(10)
9   || CHR(13)
10  || 'Task Name : '
11  || TASK_NAME
12  || CHR(10)
13  || CHR(13)
14  || 'Task Status : '
15  || TASK_STATUS
```

**Advanced**

Maximum Tokens:

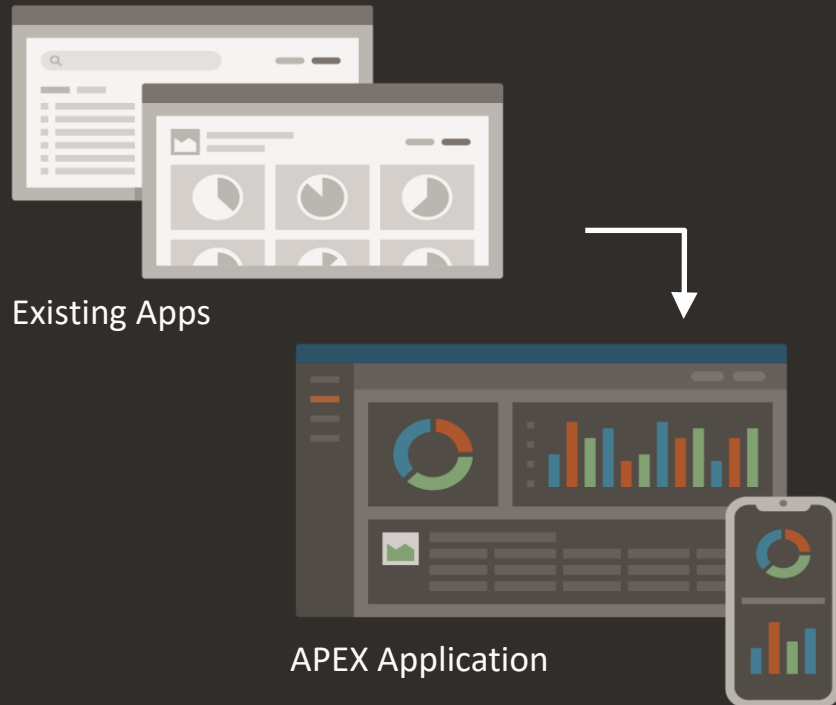
- Use **RAG Sources** to enrich AI conversations with application-specific data.
- Can include **SQL Queries**, **Function Bodies Returning CLOB**, or **Static Text**.
- Use **Authorization Schemes** or **Server-side Conditions** to control which RAG data is included.
- Use **APEX\$AI\_ALL\_USER\_PROMPTS** and **APEX\$AI\_LAST\_USER\_PROMPT** bind variables for custom RAG logic
- Utilize the **AI Configuration** in **Show AI Assistant** and **Generate Text with AI Dynamic Actions**

<https://apex.oracle.com/go/blog-ai-config-and-rag-sources>

# Integrating with Fusion Applications

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# Integrating with Fusion Applications



- Quickly start Fusion Applications projects with the new **Fusion Integration** option, featuring pre-configured SSO, identity propagation, and testable REST setups.
- Easily build APEX apps using any **Fusion REST APIs**, including the latest **/api/boss** endpoints.
- Automatically discover supported **API operations** and **data profiles**.
- Optimize performance by delegating tasks like filtering and sorting to APIs, transferring only necessary data.

<https://apex.oracle.com/go/fusion-app>

# New and Updated Components

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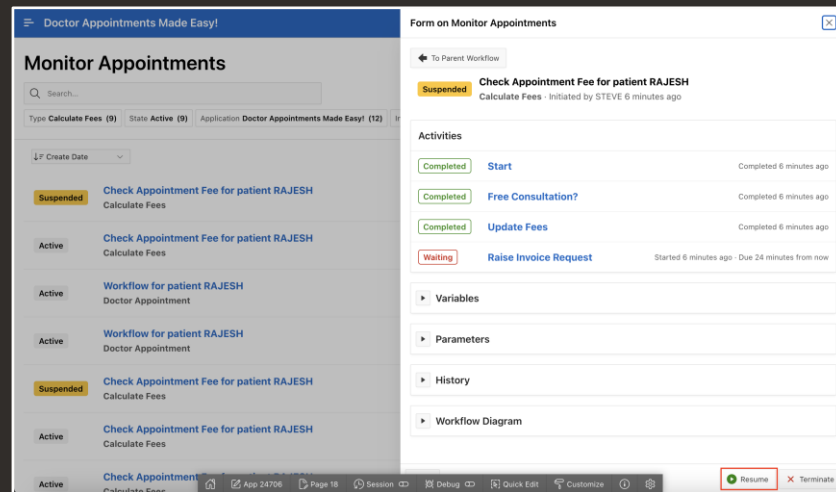
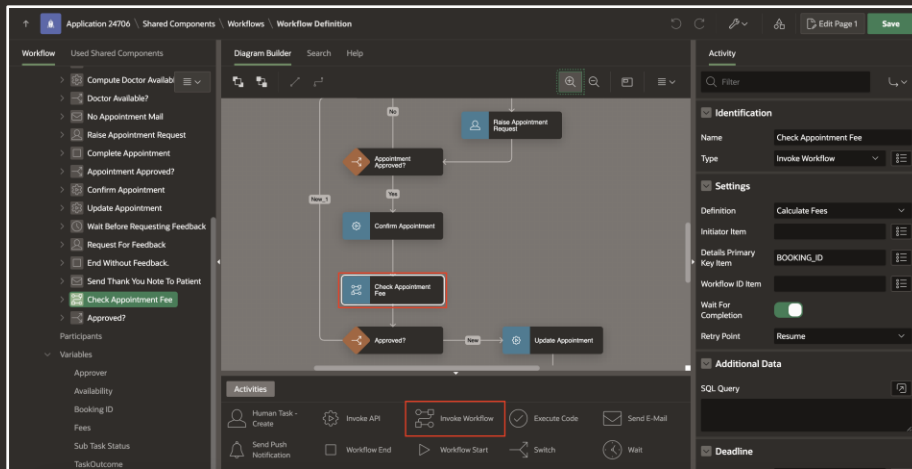
## JSON Data Sources

---

- Create a JSON-based **Data Source** in Shared Components.
- Oracle APEX auto-converts JSON, including nested structures, into rows and columns using **Data Profiles**.
- Build **Reports**, **Charts**, and **Forms** directly on JSON data —no JSON functions required.
- Use APEX\_EXEC PL/SQL API to treat JSON as relational tables with full DML support.
- Integrate seamlessly with **Automations**, **LOVs**, and **Report Queries**.

<https://apex.oracle.com/go/json-sources-blog>

# Workflow Enhancements



- Easily structure and reuse workflows by calling one workflow from another using the new **Invoke Workflow** activity with input and output parameters
- **Copy Workflow definitions** between applications to save time and avoid re-modeling similar workflows
- **Resume suspended workflows** at any activity to quickly address issues or errors
- Workflow variables and parameters now support the **CLOB data type**
- The Create Page wizard now generates simplified human task and workflow pages using **Template Components, menus,** and **modal dialogs** for easier customization

<https://apex.oracle.com/go/callable-workflows>

<https://apex.oracle.com/go/resume-workflows>



# Template Components Enhancements

|                                                                                                                    |                                                                         |          |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------|
|  <b>Configure Web Environment</b> |                                                                         |          |
|                                   | <b>Identify Server Requirements</b><br>Assignee: Tameka Hall            | Complete |
|                                   | <b>Configure Web Listeners</b><br>Assignee: Mei Yu                      | Complete |
|                                   | <b>Define Workspaces</b><br>Assignee: Harold Youngblood                 | Pending  |
|  <b>Develop Bug Application</b>   |                                                                         |          |
|                                  | <b>Customize the Bug Tracker app</b><br>Assignee: Madison Smith         | Complete |
|                                 | <b>Train staff on use of Bug Tracker</b><br>Assignee: Miyazaki Yokohama | Complete |

Template Components now support **grouping**, allowing developers to easily add **grouping headers**, similar to control breaks, for organized data presentation.

Simply define the grouping columns, set the region **Order By**, and provide an appropriate group title – APEX handles the rest.

# REST Source Enhancements

The image displays two screenshots of the APEX REST Data Source configuration interface. The top screenshot, titled 'Create REST Data Source - Settings', shows a progress bar with three steps, with the third step 'Settings' being the active one. It includes fields for 'Pagination Type' (set to 'Page Size and Page Token'), 'Page Size URL Parameter' (set to 'limit'), 'Page Size Maximum' (set to '100'), 'Page Token URL Parameter' (set to 'cursor'), 'Next Page Token Selector' (set to 'nextCursor'), 'Has More Rows Selector', and 'Total Rows Selector'. The bottom screenshot, titled 'Edit Remote Server', shows the 'General' tab with fields for 'Name' (set to 'Flexible Remote Server'), 'Server Type' (set to 'REST Data Source'), 'Endpoint URL' (set to 'https://#host#'), and a 'Prompt on Install' toggle. The 'Advanced' tab is also visible, showing a 'Static Identifier' (set to 'Flexible\_Remote\_Server'), 'HTTPS Host Name', and a 'PL/SQL Code' editor. The code in the editor is a PL/SQL procedure named 'configure\_remote\_server' that takes an input parameter 'p\_info' and an output parameter 'p\_config', and uses 'apex\_string' to build a base URL and substitutions for host, port, workspace, and api. The 'Configuration Procedure' is set to 'configure\_remote\_server'.

- **Simple HTTP** REST Data Sources now support REST Services with **token-based pagination** for better integration with APIs.
- **Flexible derivation** of the Base URL for a Remote Server in REST Data Sources, REST SQL, and Authentication using a **PL/SQL procedure**
- Flexible Remote Server can make APEX invoke dynamic endpoints based on **current app, tenant, or environment settings**
- Set the scope of a **Web Credential** programmatically with the **APEX\_CREDENTIAL** API

<https://apex.oracle.com/go/242-rest-data-source-enhancements>

# Improvements to Text Messages

### Create/Edit Text Message

Messages are designed to provide translation services for use in PL/SQL.

Application **52475 APEX 24.2 New Features App**

\* Name **TEXT\_MESSAGE**

Language **English (en)**

Used in JavaScript ☐

\* Text **Hello %name, your order-> %orderno has been shipped. Percent complete: %percent%**

Comments

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

- Enhanced support for **substitution syntax**, simplifying how **Text Messages** are used in applications.
- **Shortened syntax** makes referencing Text Messages faster and more intuitive.
- **Named substitution parameters** improve code clarity and support more than ten substitutions in a single message.
- Easy **search** and **selection** of Text Messages directly within Page Designer for seamless development.

Name  
Jon

Order No  
20

Percent  
80

**Check Output**

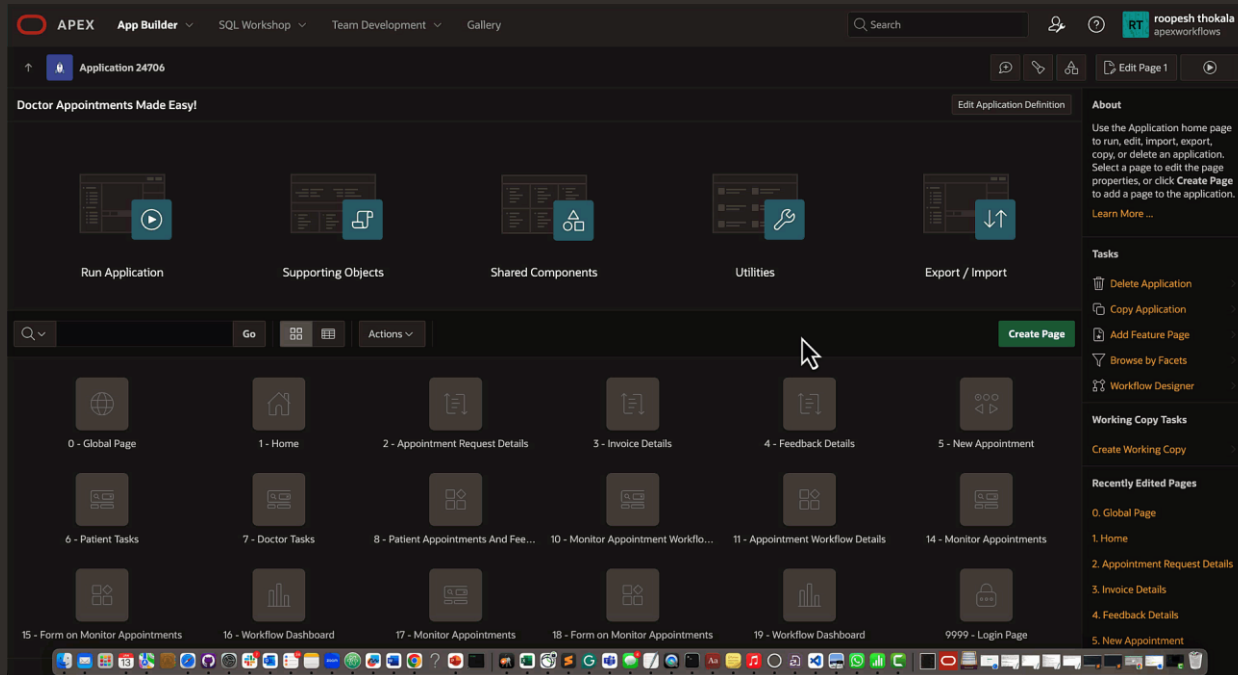
**Text Message Syntax Used**  
  
&{TEXT\_MESSAGE name=&P64\_NAME.  
orderno=&P64\_ORDER\_NO. percent=&P64\_PERCENT.}.

**Output after Substitution**  
  
Hello Jon, your order -> 20 has been shipped. Percent complete:  
80%

# Developer Experience

---

# Understanding Application Object Dependencies



- Easily scan and report **database object dependencies** for entire applications or specific pages
- Visualize dependencies in a **hierarchical tree format** and access **direct links** to detected references
- **Separates system dependencies** from schema objects developers manage
- Includes a **search filter** for streamlined navigation and code review of object references
- Enhances the **APEX\_APP\_OBJECT\_DEPENDENCY API** with improved performance, bug fixes, and expanded detection capabilities

<https://apex.oracle.com/go/242-db-object>

# General Builder Enhancements

---

## Export and Import Pages across Workspaces

- Move pages seamlessly between different APEX environments by exporting one or more pages from one workspace, then importing them into an application in another workspace.

## Builder Extensions

- Instance administrators can auto-subscribe workspaces to Extension Menu entries, eliminating manual subscriptions.

## Simpler List Edit Experience

- The Edit List page now offers a more intuitive interface, with List details in an Interactive Report and bulk editing through a separate Grid Edit page.

## Page Designer Enhancements

- Extend HTML title and breadcrumb with page and app information. Declaratively make modal dialog pages resizable with a new page attribute to switch the resizable setting on or off.

# User Experience



# Universal Theme Updates

## Country Flags in Font APEX 2.4

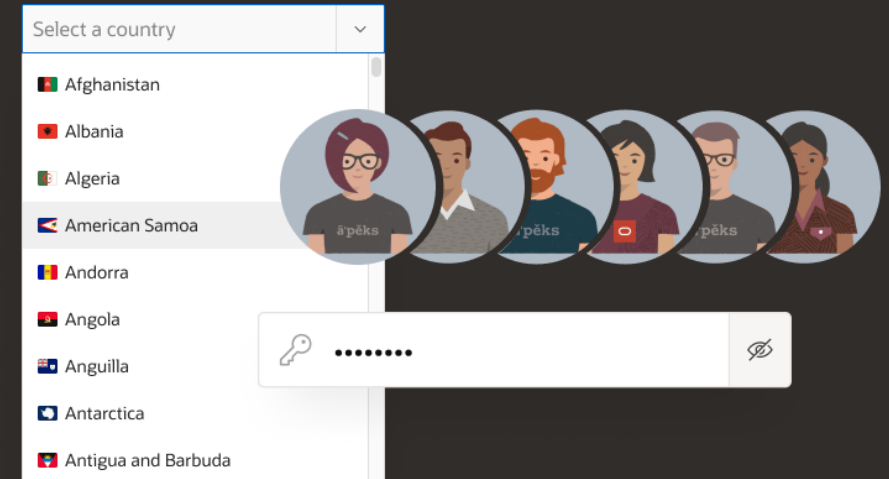
- Font APEX 2.4 adds over 250 colorful country flag icons to the Universal Theme.

## Content Row Grouping

- The Content Row region type has been updated to support Template Components' new Grouping feature, which includes support for both a title and an icon in group headings.

## Multiple Avatars

- The ability to create regions of multiple Avatars is now supported, with new configuration options for spacing and stacking Avatars.



# Universal Theme Updates - Continued

---

## New Utility Classes

- A number of new utility classes for Typography, Shadows, Flex Order, Padding, and Margin give developers further control over their applications' style and layout.

## Password Visibility

- A new password visibility toggle for Password items lets users view or hide an entered password.

## Performance

- Universal Theme is now stored in a Centrally located theme repository, improving performance, reducing export file size, and streamlining CI/CD processes.

## Additional Theme Updates

- Updates to Universal Theme include better dynamic toolbar support for mobile browsers and enhancements to Redwood Light.

# Accessibility Improvements

---

## Read-Only Elements

- Read-only elements in App Builder now support improved accessible rendering, enhancing features introduced in the 24.1 release.

## Builder Heading Improvements

- Heading levels in App Builder have been refined to address hierarchy issues for better accessibility.

## ARIA Live Regions

- ARIA live regions in APEX have been modularized for enhanced accessibility, ensuring consistent live message handling for screen reader users.



# OpenTelemetry Support

---

Utilize OpenTelemetry features in APEX applications to meet industry standards for instrumenting and collecting client-side telemetry data.

## UX Analysis

- Gain deeper insights into UX performance by using OpenTelemetry to gather data on resource fetch timings, AJAX/XHR requests, and user interactions.

## Declarative Telemetry Configuration

- Set up Client Logging Service (CLS) endpoints and Token Relay URLs easily from Workspace Utilities, and configure OpenTelemetry settings per application.



# Additional Updates & Enhancements

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# Excel Support for Document Generator

The **Document Generator Integration service** has been improved to support Excel templates as Report Layouts

Generate documents in new formats:

- DOCX to DOCX
- XLSX to PDF
- XLSX to XLSX

<https://apex.oracle.com/go/docgen-enhancements>

## Select Many Improvements

- New **Comma-separated List** display option allows adding a counter button to items.
- The counter shows the **number of selected values**.
- Pressing the counter opens a dropdown with only the selected values.

<https://apex.oracle.com/go/242-sm-enhancements>



## Faceted Search Enhancements

- Faceted Search now supports **Add Filter Dialog** for displaying multiple facets conveniently on the page.
- New **synchronization feature** for Faceted Search and Smart Filters regions enables the quick creation of new facets for existing regions.

<https://apex.oracle.com/go/242-sm-enhancements>

## Search Page Improvements

- **Improved UI** for Search Pages created from Search Configurations.
- Search Input Field now includes:
  - Default search icon
  - Clear-on-ESC functionality
  - Placeholder text
- Standard **default messages** have been added for the Search Results region to avoid an empty results region before any search has happened.



# Additional Updated and Enhancements - Continued

---

## Outdated App Translation Information

- When running a translated version of an application, developers will be notified if the translated version is not up-to-date with the primary language.

## Unlimited Attributes for Item Plug-Ins

- Item Plug-ins now support unlimited attributes, utilizing the enhanced infrastructure introduced in 23.2 and 24.1 releases for Template Components and Regions.

## Declarative Pagination Control

- Developers can now control pagination behaviour with the Refresh Dynamic Action on Interactive Reports.
- While the default resets pagination, developers can configure reports to maintain the current pagination and scrollbar position after a refresh.

# Additional Updated and Enhancements - Continued

---

## Substitution String for MAIN\_APP\_ID

- When application logic depends on the application ID, developers can use a new substitution string MAIN\_APP\_ID to reliably reference the main application ID, even when running in a working copy.

## Modernized Popup LOV

- Popup LOV search attributes have been updated to be consistent with new LOV components like Select One, Select Many, and Combobox.
- Enhanced search capabilities with Match Type and Case Sensitive attributes.

## Map Region Labels

- Map regions have been enhanced to provide full support for right-to-left text rendering. This fixes an outstanding bug regarding displaying RTL labels in Map regions.

## Content-Security-Policy

- This release enhances support for content-security-policy, eliminating unsafe inline styles, script tags, and JavaScript pseudo URLs across the APEX platform.

# PL/SQL API Updates

## APEX\_APPLICATION\_ADMIN

- New SET\_REMOTE\_SERVER procedure to programmatically set the Base URL of a Remote Server object

## APEX\_CREDENTIAL

- New SET\_SCOPE procedure to programmatically change the "scope" attribute of a Web Credential

## APEX\_PAGE

- New parameter p\_absolute\_url of type boolean added to the function GET\_URL. When set to false, its default, it automatically determines if an absolute URL is needed. When set to true, an absolute URL is always generated

## APEX\_REGION

- New GET\_ID function to return the ID of a region for a named region on a page of your app



# PL/SQL API Updates

## APEX\_SHARED\_COMPONENT

- The new APEX\_SHARED\_COMPONENT package contains two APIs for working with shared components: REFRESH and PUBLISH. It is only available in full APEX installations.

## APEX\_LANG

- Updated CREATE\_MESSAGE procedure
  - New p\_metadata parameter to optionally add any additional supporting data for a Text Message - e.g. Fusion teams will use to add additional data in JSON format
  - New p\_comment parameter to optionally add comments against a Text Message
- New overloaded UPDATE\_MESSAGE procedure
  - Provides full set of parameters - p\_id, p\_name, p\_language, p\_message\_text, p\_used\_in\_javascript, p\_metadata, p\_comment
- New GET\_MESSAGE function
  - Formats a Text Message with named substitution variables 'Hello %name is your birthday on %fulldob?'



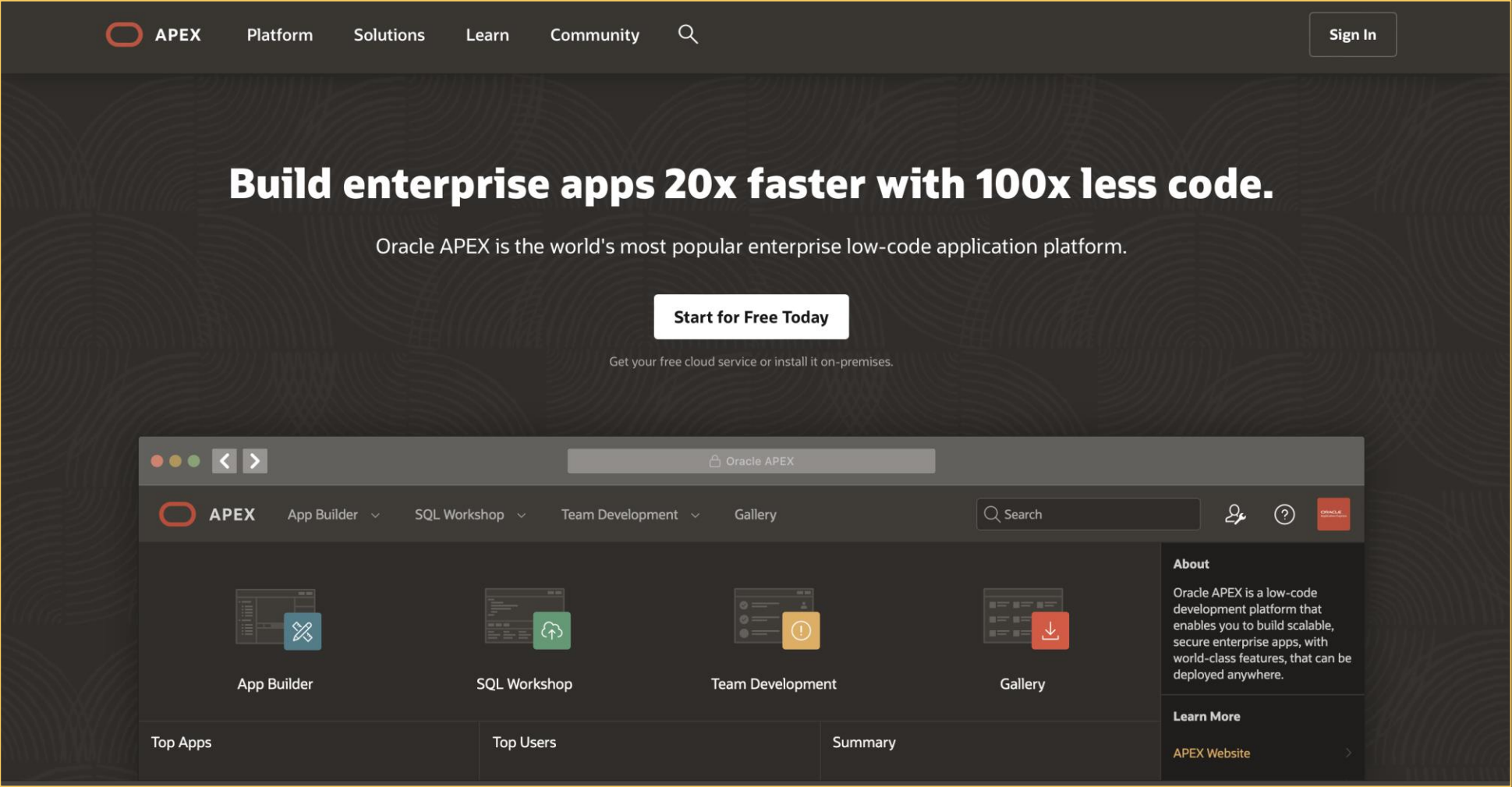
# JavaScript Library Upgrades

- cropperjs 1.6.2
- DOMPurify 3.1.6
- Font APEX 2.4
- FullCalendar 6.1.15
- jQuery Migrate 3.5.2
- Less.js 4.2.0
- Map Region: Upgrade Mapbox to MapLibre 4.6.0
- MarkedJS 14.1.0
- Monaco Editor 0.51.0
- Oracle JET 17.0.2
- Oracle Rich Text Library 2.0.1
- PrismJS 1.29.0
- Terser 5.31.3
- Turndown 7.2.0



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The screenshot shows the Oracle APEX Developer Professional Learning Path page. At the top, it says "Become An Oracle APEX Developer Professional" with a status of "In Progress". Below this, it states: "This learning path enables developers to design, develop, and deploy scalable, secure enterprise applications using Oracle APEX by integrating AI capabilities to create innovative solutions." The "Learning Objectives" section lists five bullet points: developing modern applications, creating dynamic reports, enhancing application functionality, integrating OCI AI services, and leveraging AI Vector Search for RAG features. It also mentions that the path prepares users for the "Oracle APEX Cloud Developer Professional certification".



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1

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2

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Course along with the  
Hands-on Labs

4

**Prepare for the  
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Take up the Practice  
Exam and self assess  
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5

**Get Certified**

Pass the exam and earn  
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# Thank you

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