

ORACLE

Oracle低代码解决方案

低代码流程平台快速帮助客户构建云上应用

2022 朱明尧

售前技术顾问



日程

- Oracle低代码/无代码平台介绍
- Oracle流程云平台介绍
- Oracle APEX流程接入



低代码应用开发

“你获得程序生产力的方法不是通过增加每个程序员每天的代码量。这是行不通的。
你获得生产力的方法是减少你要编程的代码量。”

而且要编写速度最快、永不宕机、不需要维护代码

Steve Jobs
WWDC '97

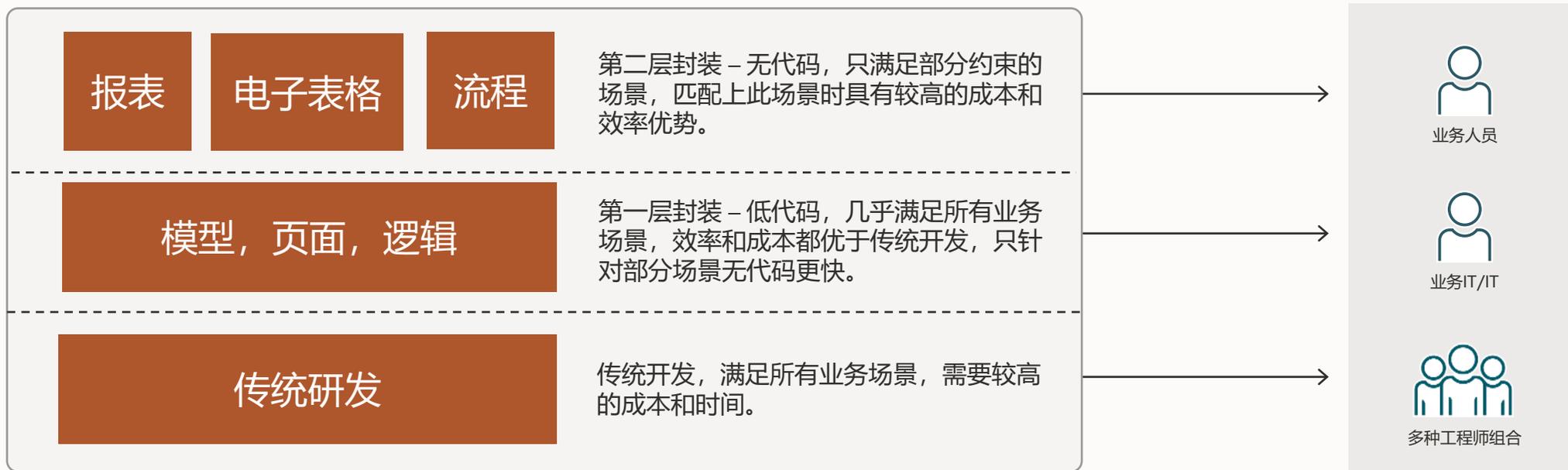
<https://www.youtube.com/watch?v=3LEXae1j6EY#t=41m26s>



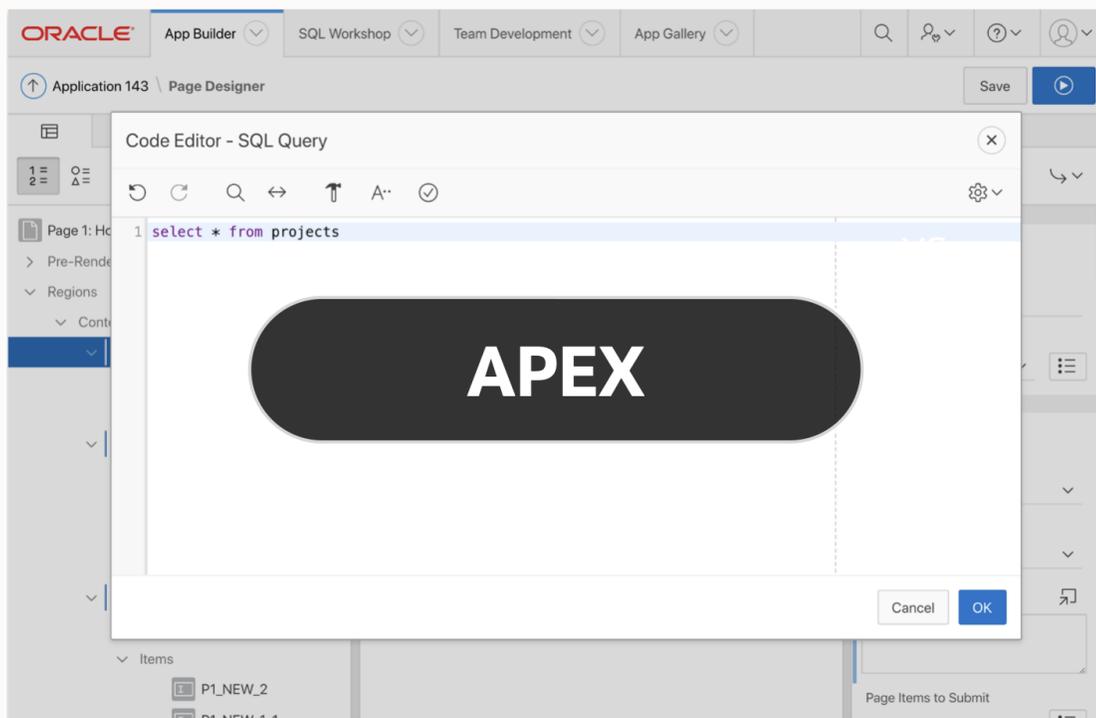
Oracle低代码/无代码平台介绍 What: apex.oracle.com

1. 什么是低代码

2. 新一代数据驱动的低代码平台



Oracle APEX 您可以**100**倍减少你的代码量， 快**20**倍的速度来构建企业应用程序



Home \

Races

Reset Calendar

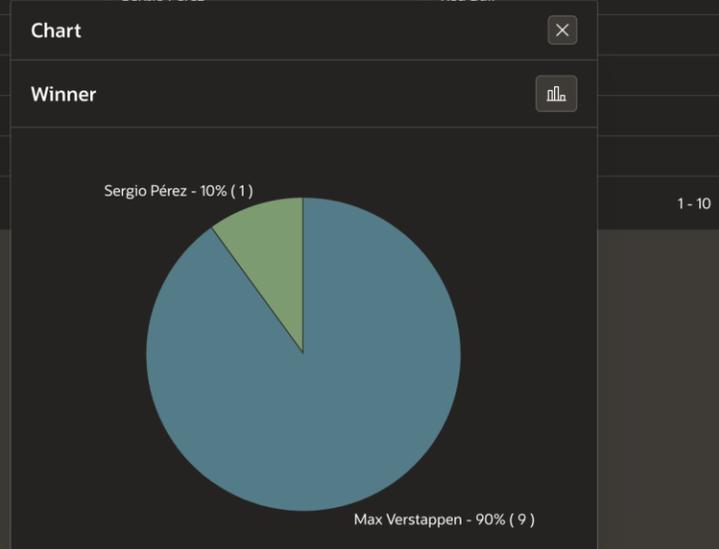
Search... Go

Count 10

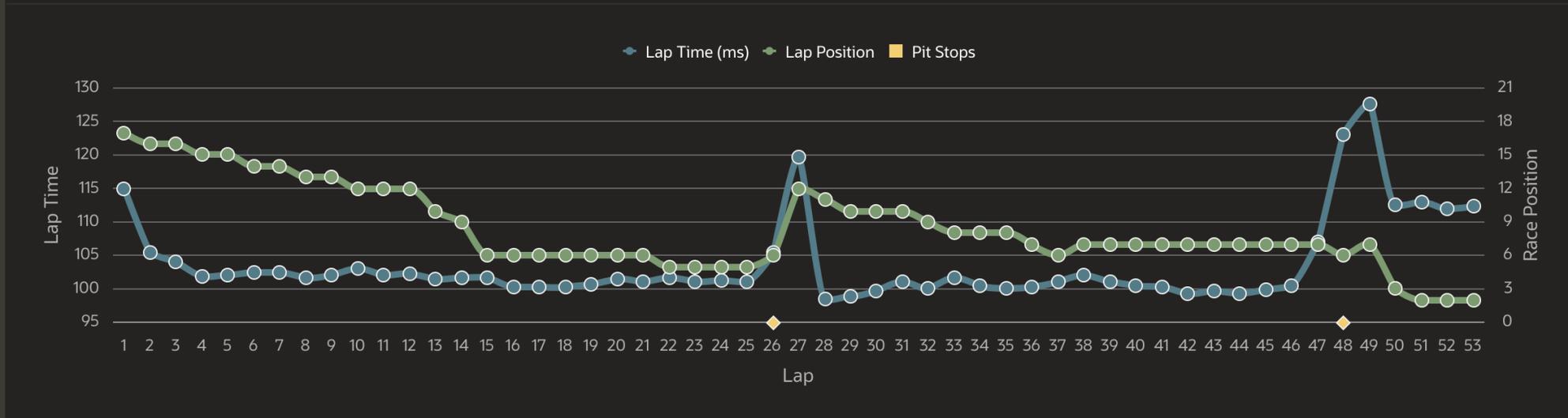
Winning Team Red Bull X Decade 2020 X Clear All

- Winner
 - Max Verstappen (9)
 - Sergio Pérez (1)
- Winning Team
 - Mercedes (18)
 - Red Bull (10)
 - AlphaTauri (1)
 - Alpine F1 Team (1)
 - McLaren (1)
 - Racing Point (1)
- Decade
 - 2000 (6)
 - 2010 (56)
 - 2020 (10)
- Year
 - 2021 (8)
 - 2020 (2)
- Race
 - 70th Anniversary Grand Prix (1)
 - Abu Dhabi Grand Prix (1)
 - Austrian Grand Prix (1)
 - Azerbaijan Grand Prix (1)

Race	Date	Year	Country	Winner	Winning Team
Dutch Grand Prix	05-SEP-2021	2021	Netherlands	Max Verstappen	Red Bull
Belgian Grand Prix	29-AUG-2021	2021	Belgium	Max Verstappen	Red Bull
Austrian Grand Prix	04-JUL-2021	2021	Austria	Max Verstappen	Red Bull
Styrian Grand Prix	27-JUN-2021	2021	Austria	Max Verstappen	Red Bull
French Grand Prix	20-JUN-2021	2021	France	Max Verstappen	Red Bull
Azerbaijan Grand Prix	06-JUN-2021	2021	Azerbaijan	Sergio Pérez	Red Bull
Monaco Grand Prix	23-MAY-2021	2021	Monaco		
Emilia Romagna Grand Prix	18-APR-2021	2021	Italy		
Abu Dhabi Grand Prix	13-DEC-2020	2020	UAE		
70th Anniversary Grand Prix	09-AUG-2020	2020	UK		



Lap Times and Positions



```
Code Editor - SQL Query
1  select
2    lap,
3    MILLISECONDS,
4    MILLISECONDS/1000 seconds,
5    position,
6    (select 0 pitted
7     from F1_PIT_STOPS p
8     where p.lap = lt.lap
9           and p.raceid = lt.raceid
10          and p.driverid=lt.driverid) pitted
11 from F1_LAP_TIMES lt
12 where driverid = :P10_DRIVERID and
13        raceid = :P10_RACEID
14 order by 1

Cancel OK
```



APEX

低代码平台



Oracle APEX



Oracle REST 数据服务

编程语言和框架



.NET



php



Perl

实现任务关键型应用程序的开发和部署



Oracle 数据库



Oracle 流程云平台介绍

What : <https://www.oracle.com/integration>

用于自动化端到端业务流程的预构建应用引擎开发平台



聊天机器人



Blockchain



IoT



增强分析

零人工

零人工失误

零数据丢失



接口管理



设计

控制

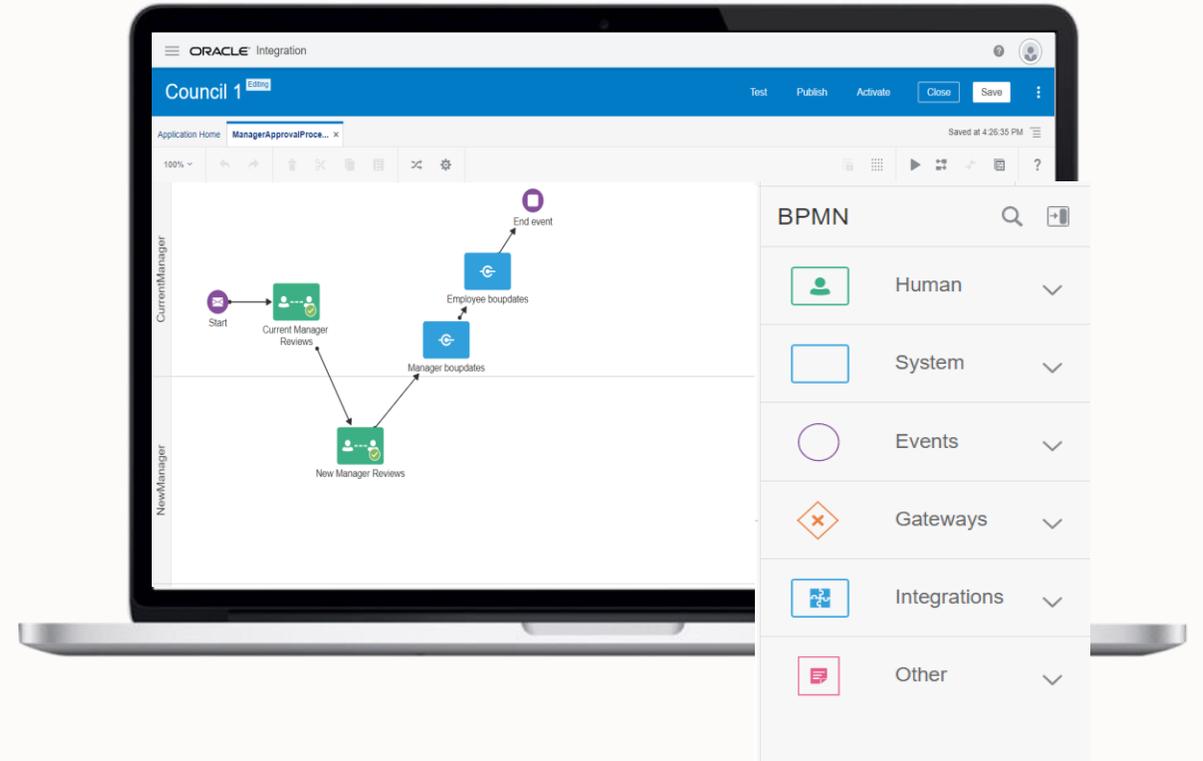
管理



跨部门数字化工作流程的自动化

享有端到端流程模板

- 设计规则和移动适配表单的可视化设计器
- 预先构建的应用程序集成
- 分析 workflow 数据以优化
- 协调人工、机器人和聊天机器人的行动



企业集成适配器

针对云、内部部署、Oracle、非Oracle和自定义应用程序的预构建适配器

ERP 连接

ERP Cloud, ORACLE NETSUITE, EPM Cloud, Commerce Cloud, Utilities Cloud, Logistics Cloud, ORACLE E-Business Suite, ORACLE JD Edwards, SAP S/4 HANA, SAP Commerce Cloud, SAP Ariba, CONCUR, Shopify

HCM 连接

HCM Cloud, Taleo, Talent Acquisition Cloud, Talent Cloud for Midsize, successfactors, workday

生产和社交媒体连接

DocuSign, facebook, Eventbrite, Google Calendar, twitter, Trello, EVERNOTE, Gmail, box, Google Tasks, MailChimp, MS Contacts, Adobe Sign, MS Email, LinkedIn, MS Calendar, SurveyMonkey

CX 连接

Engagement Cloud, CPQ Cloud, Eloqua, Responsys, Marketo, salesforce, Field Service Cloud, Service Cloud, Policy Automation, ORACLE Siebel, servicenow

Database 连接

Database Cloud, ATP Cloud, ADW Cloud, Database, MySQL, Microsoft SQL Server, IBM DB2

Enterprise Messaging

Apache Kafka, AQ, JMS, IBM MQ Series

Technology Connectivity

REST, FTP, SOAP, SOA Suite, FILE

RPA Connectivity

UiPath, AUTOMATION ANYWHERE

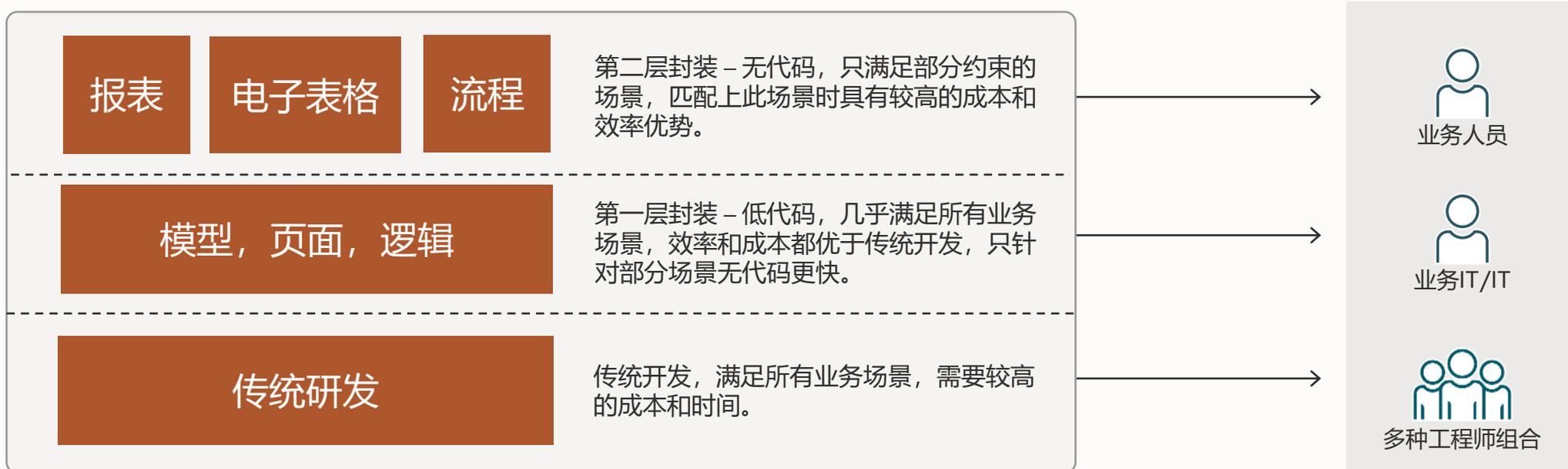
Future Proof

Limit maintenance and upgrade costs
Oracle supported

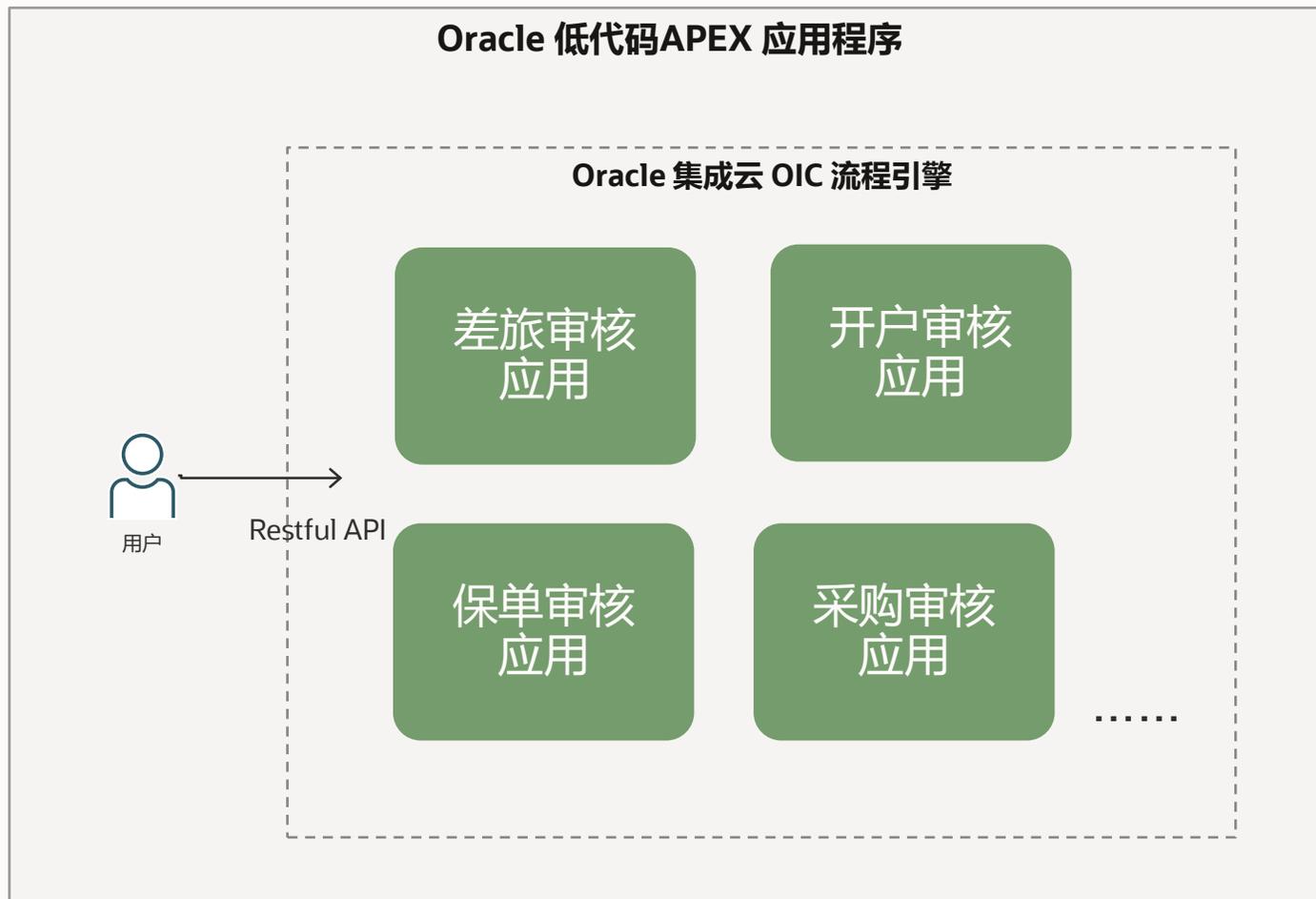
For more detailed information see [here](#)



回顾低代码/无代码



集成案例



架构实现流程低代码平台所有能力
Oracle iPaas的解决方案之一

优势:

1.此解决方案可以通过一次性开发，在APEX应用中建立好指定流程，方便流程变更，业务人员可改。

2.通过低代码可嵌入多种流程

3.通过单点登录，统一登陆方式，统一API调用机制OAuth2，轻松安全访问所有Oracle云平台产品



OIC API

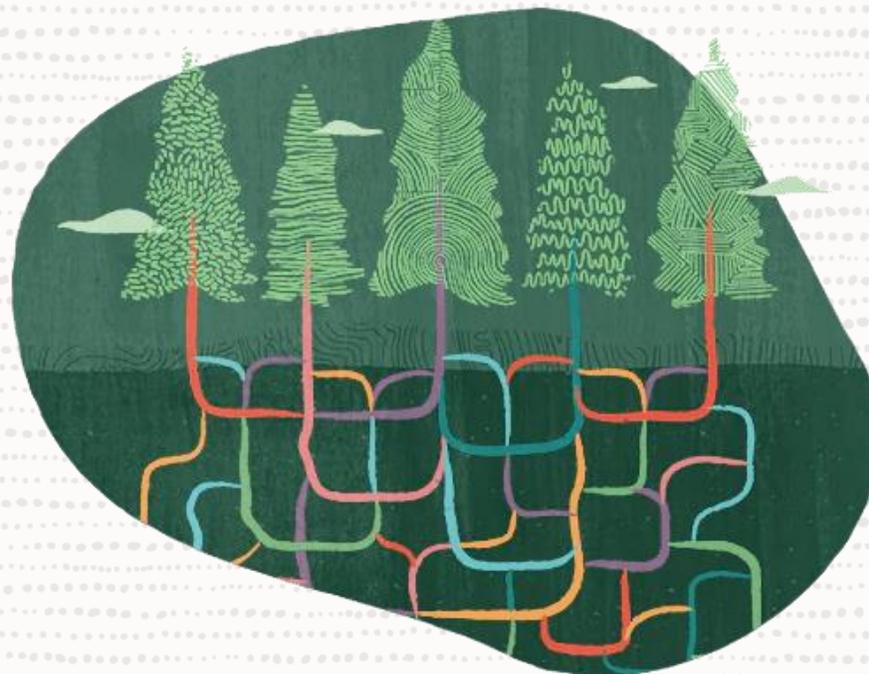
<https://docs.oracle.com/en/cloud/paas/integration-cloud/rest-api/op-ic-api-process-v1-tasks-views-viewname-get.html>

The screenshot displays a REST client interface with a sidebar on the left containing a search filter and a list of collections. The main area shows a GET request to the endpoint `{{server}}/ic/api/process/v1/tasks`. The response status is 200 OK, with a time of 2173 ms and a size of 8.31 KB. The response body is shown in JSON format, with the following structure:

```
1 {
2   "totalResults": 7,
3   "count": 7,
4   "hasMore": false,
5   "items": [
6     {
7       "title": "CustomerCreationApp",
8       "number": 200058,
9       "id": "be27480f-7501-46e8-8972-6272b576e02b",
10      "createdBy": "Mile Zhu",
11      "fromUserDisplayName": "Mile Zhu",
12      "fromUserName": "mingyao.zhu@oracle.com",
13      "priority": 3,
14      "ownerRole": "CustomerCreationApp.Process Owner",
15      "status": "ASSIGNED",
16      "state": "ASSIGNED",
17      "assignedDate": "2021-11-11T05:59:31.000Z",
18      "createdDate": "2021-11-11T05:59:31.000Z",
19      "updatedById": "mingyao.zhu@oracle.com",
20      "updatedAt": "2021-11-11T05:59:31.000Z",
21      "hasSubTasksFlag": false,
22      "processName": "CustomerCreationProcess",
23      "processId": "20024",
24      "processDefId": "oracleinternalpcs~CustomerCreationApp!4.0~CustomerCreationProcess",
25      "processInstanceDetail": {
26        "length": 0,
27        "rel": "processInstanceDetail"
28      }
29    }
30  ]
31 }
```



Demo演示



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