

Oracle Application Express (APEX)



Oracle Global Leaders Summit Meeting EMEA 2020

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 @joelkallman

Safe Harbor

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Joel R. Kallman

- Oracle America, 1996
- Based in Columbus, Ohio USA
- Co-creator of Oracle APEX
- Leading Oracle APEX development since 1999
- Responsible for Oracle APEX development & product management



 @joelkallman

Oracle APEX

Low Code Application Development Framework



Develop desktop and mobile web apps



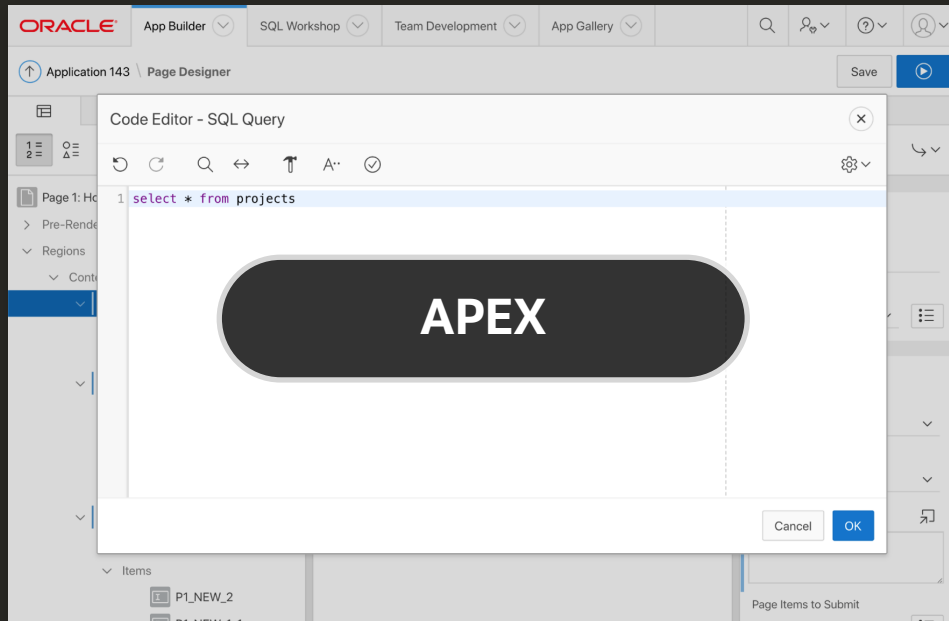
Visualize and maintain database data



Leverage SQL Skills and database capabilities

Productivity vs Hand Coding

Low Code



Lots of Code



Oracle APEX is 20x faster with 100x less code

The Benefits of Low Code

- Faster Delivery
- Greater Quality & Consistency
- Easier to Learn
- Less Cost
- More Reliable
- Flexible

Low Code versus Traditional Coding

- “10 times faster than traditional methods”

Forrester

- “By 2024, low-code application development will be responsible for more than 65% of application development activity.”

Gartner

- “...compelling productivity gains for professional and citizen development, as well as speed-of-delivery benefits.”

Gartner

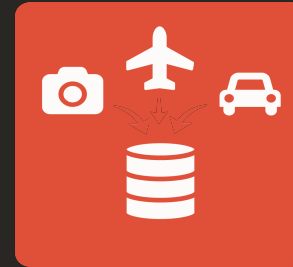
Build APEX apps using native SQL



Machine Learning



Real-Time Analytics



IoT



Social Graph Analysis



Documents



Spatial Processing



Blockchain

Scalable, Spatially-Accurate Contact Tracing with APEX



Oracle APEX Everywhere

APEX included with every Oracle Database, including Oracle Autonomous Database

- No cost fully-supported feature
 - All supported DB editions and versions
- No limits on developers, end users, apps
- Available in all Database Cloud Services
- Run on-premises, Oracle Cloud, other clouds



ORACLE
APPLICATION EXPRESS

R.A.D. ā'pēks

We develop cloud
ready applications



Demonstration


APEX in the Real World

Common uses of APEX

- Spreadsheet Replacement
- Opportunistic Apps
- Process Digitization / Inefficient Processes
- Oracle Forms Replacement / Legacy App Modernization
- External Data Sharing
- ERP / SaaS Reporting & Extension

Neath Port Talbot Council

Mobile app for citizen incident reporting, spatial integration

 Cyngor Castell-nedd Port Talbot
Neath Port Talbot Council

Neath Port Talbot - Report Fly Tipping

Change language: [ENG](#) | [CYM](#)

Did you witness the fly tipping? *


Yes No

Do you want to provide your name and contact information? *


Yes No

Are you currently at the location of the fly tip? *


Yes No

 The authority is now using what3words as a simple way to report any location.
By clicking the red icon, you will provide us with your current what3words location.

Your current what 3 words address:



Locality:

 Cyngor Castell-nedd Port Talbot
Neath Port Talbot Council

Castell-Nedd Port Talbot - Riportio Tipio Plu

Change language: [ENG](#) | [CYM](#)

A welsoch chi'r tipio anghyfreithlon? *



Ie Na

Ydych chi am rhoi eich enw a'ch manylion cyswllt? *

Ie Na

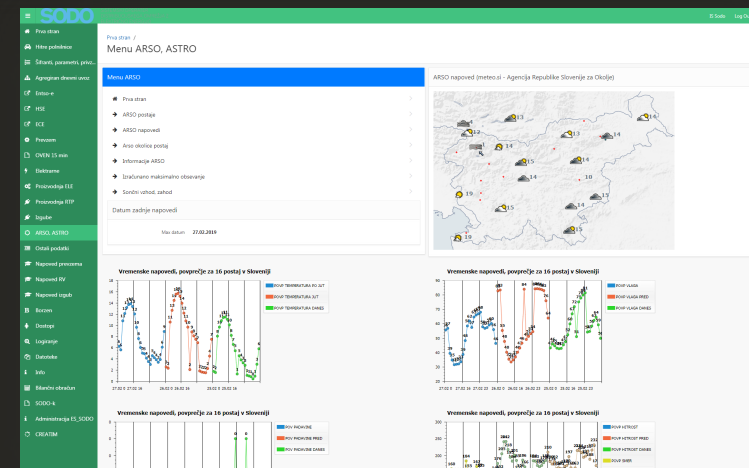
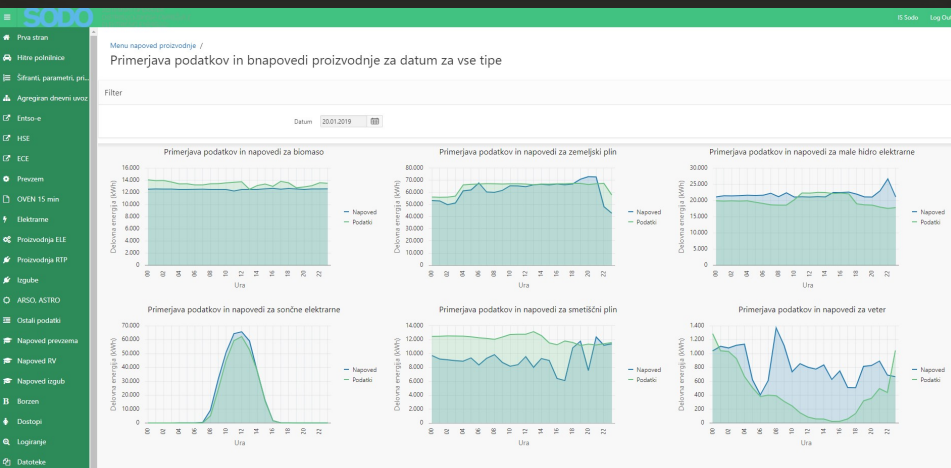
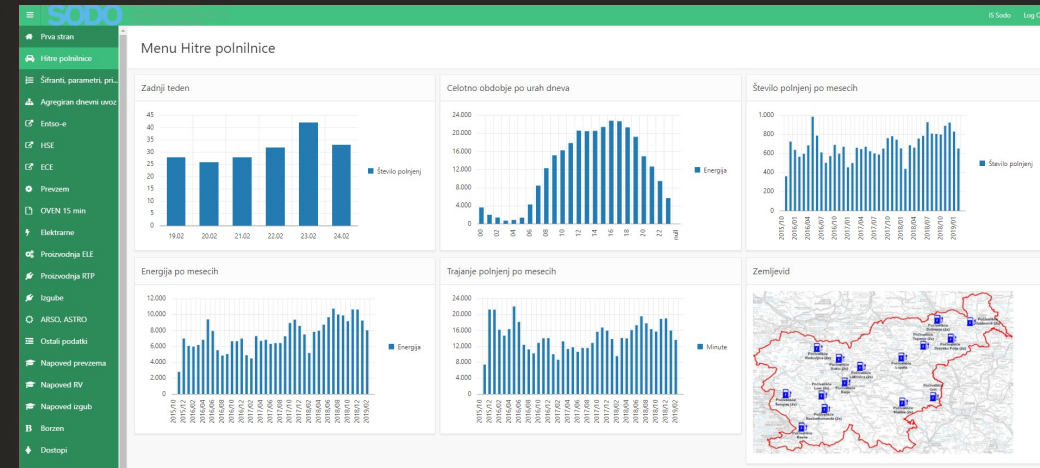
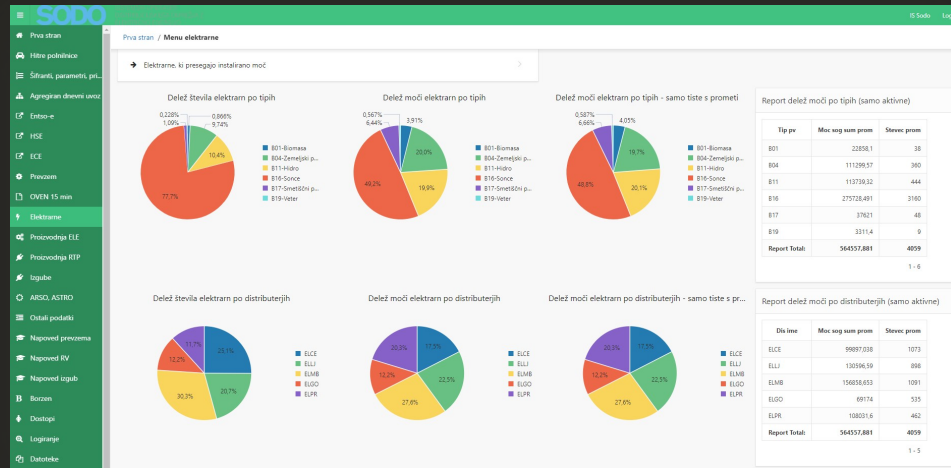
Ydych chi ar hyn o bryd yn lleoliad y tipio anghyfreithlon? *

Ie Na

 Mae'r awdurdod bellach yn defnyddio what3words fel ffordd syml o rhoi gwybod am unrhyw leoliad.
 Y glicio ar yr eicon coch, byddwch


SODO doo (Slovenia)

Electricity distribution system operator, entire back office systems



Abu Dhabi Vocational Education and Training Institute

Online course registration

 معهد أبوظبي للتعليم والتدريب المهني
Abu Dhabi Vocational Education & Training Institute

OHS Online Registration Form

Home **Registration** More Information

Registration Form

Note
A notification email will be sent to you. Please check your junk emails if you cannot find it in your inbox.

The Abu Dhabi Occupational Health and Safety Practitioners Course Application Form

Personal Details

Campus Al Jazeera Institute - Abu Dhabi Al Jaheli Institute - Al Ain

* Prefix (Mr., Mrs., Ms., Dr.)

* First Name


* Middle Name

* Family Name


* Emirates ID

* Mobile

* Email

 معهد أبوظبي للتعليم والتدريب المهني
Abu Dhabi Vocational Education & Training Institute

OHS Online Registration Form

Welcome: V00015641 Logout 

Applicants Report **More Information** Admin Users Email Status

Applicants Report > Applicant Info

Applicant Info Cancel Apply Changes

Personal Details

* Prefix Mr

* First Name Faisal

* Middle Name Faisal

* Family Name Hamed

* Emirates ID 611111111111116

* Phone 09900000

* Email faisal.hamed@testing.test

Employer Details

* Company Name ADVETI

* Company Phone 09900000

* Position IT Manager

Course Details

Course Title

Start Date

Test Date

* Course Type OHS - Full-time 2 Day Paid

Record Info

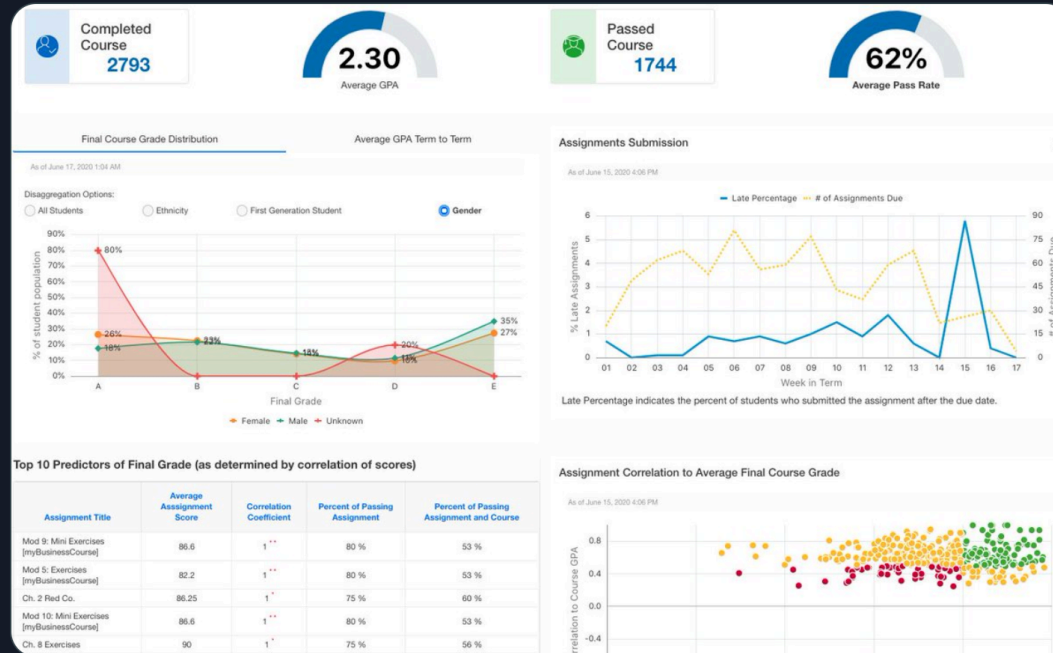
Application submitted on: 11-JUN-2014 03:31PM

[History](#)



Michelle Hardwick
@datacheesehead

This week my team rolled out a new Faculty Dashboard to our 3000+ faculty at SLCC. I am so excited about the analytics in it! We built it in Oracle APEX. Blog coming soon. [#TransformingHigherEd](#) [#IRwatercooler](#)



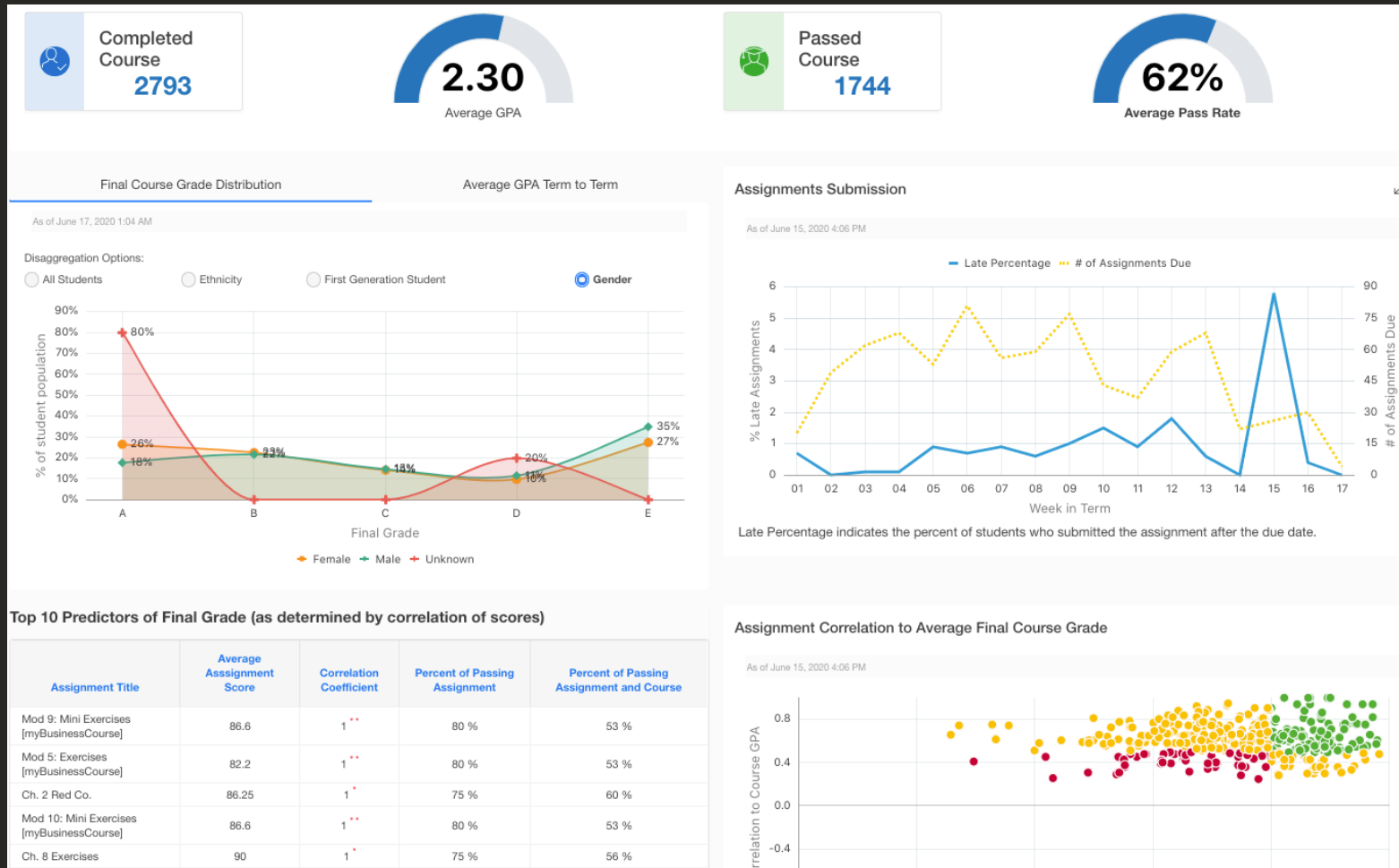
5:04 PM · Jun 17, 2020 · [Twitter Web App](#)

19 Retweets 98 Likes



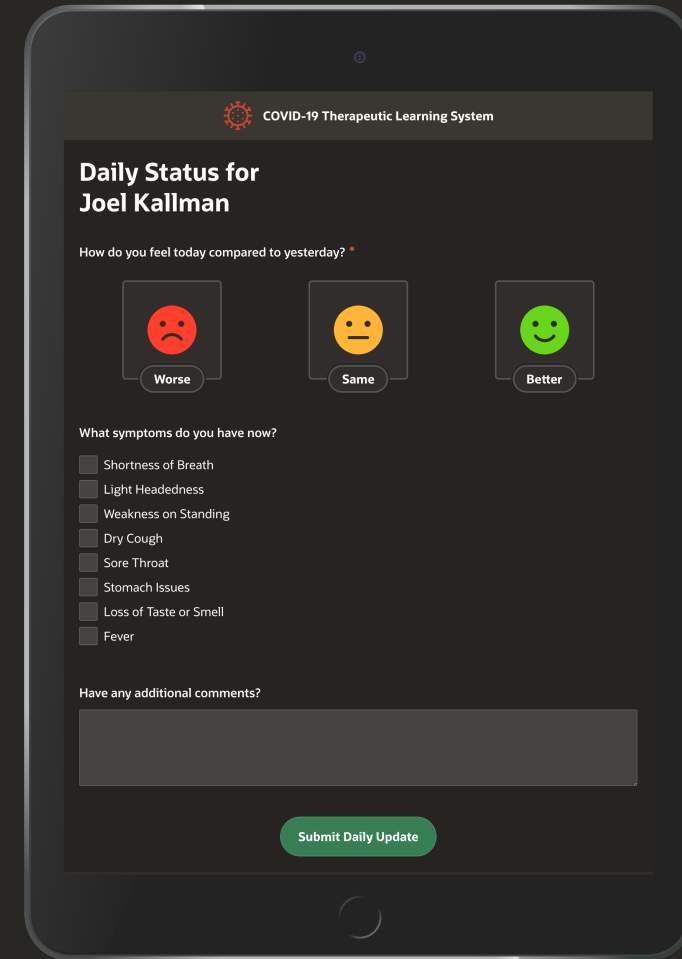
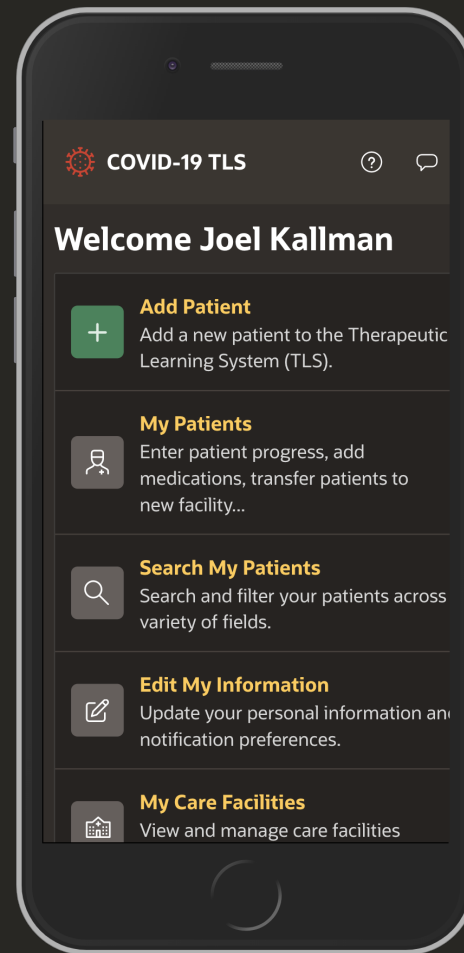
Salt Lake Community College

Faculty Dashboard



COVID-19 Therapeutic Learning System

- Collects real world data about COVID-19 patients and their prescribed treatments
- Fast way to study COVID-19 patient outcomes in aggregate
- Developed and deployed in under 2 weeks
- Healthcare practitioner registers and adds their patients
- Patients receive daily email or SMS reminders to provide an update on their status



COVID-19 Therapeutic Learning System

EDITION: US

ZDNet IOT CLOUD AI SECURITY MORE NEWSLETTERS ALL WRITERS

MUST READ: [Coronavirus app: What contact tracing is, and how it will work](#)

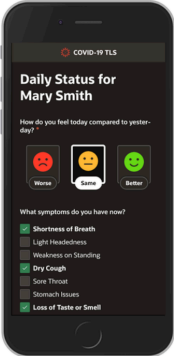
PART OF A ZDNET SPECIAL FEATURE: [CORONAVIRUS: BUSINESS AND TECHNOLOGY IN A PANDEMIC](#)

Launching Oracle's COVID-19 Therapeutic app: The back story

Oracle's APEX application development framework was an unsung hero in enabling a drug treatment reporting app to make it from design to full national rollout in the US in barely two weeks. Here's how it happened.

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By [Tony Baer \(dblinsight\)](#) for [Big on Data](#) | April 10, 2020 – 12:00 GMT (05:00 PDT) | Topic: [Coronavirus: Business and technology in a pandemic](#)



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apex.world

The screenshot shows the apex.world website with a navigation bar at the top. The 'COVID-19 Apps' menu item is highlighted with a red box. Below the navigation bar, the page title is 'COVID-19 APEX Apps'. The main content area is a grid of 12 app cards, each with a title, description, and metadata (Scope, Language, Author).

App Title	Description	Scope	Language	Author
COVID-19 Therapeutic Learning System	What drugs are effective in treating or preventing the COVID-19 virus?	USA	English	Larry Ellison
APEX App to follow the COVID-19 Virus	APEX App to follow the COVID-19 Virus	Global	English	Ronny Weiß
COVID19 Masks	We're connecting hospitals, doctors, and healthcare workers in urgent need of Personal Protective Equipment to the volunteers around the world who want to help.	Global	English	Anton Nielsen
Corona Hilfe Angebote in der Region Lüneburg	Diese Anwendung soll zur Koordination der Hilfsangebote im Bereich Lüneburg dienen. Download the app to use it with your community.	Local	German for now	Bernhard Fischer-Wasels
Help Exchange	The portal supports Polish hospitals and other public institutions in informing about their current needs. Companies and institutions who offer support can also publish information about their free help. Portal is non-profit.	Poland	English, Polski	Przemyslaw Kantyka
Daily Grocery Status	This application was quickly designed to combat the panic buying at grocery stores by providing a crowd-sourced list of which store has what supplies. If you would like to add a new city, please leave some feedback or send me an e-mail at dailygrocerystatus@gmail.com. Thanks!	Global	English	Scott Spendolini
Pandemic Volunteer Virtual Projects	PVP is just a simple registry app that should give us an idea of the projects that are suggested or are in progress. Add projects, give suggestions, or look for a team that needs resources.	Global	English	Jason Aughenbaugh
For Each Other	This app offers a way to give and receive help during a time of crisis.	Global	English, Croatian	Goran Zebec
APEX_GY COVID-19 Virus Cases	To inform Guyanese public of worldwide effect of COVID-19 cases and to inform them about local alerts from the Department of Public Information (DPI).	Guyana	English	Nicholas Seetaram, Darshani Jumma
COVID-19 Tracker	COVID-19 Tracker is an application developed to track and analyze the propagation of the virus around the world.	Global	Portuguese (pt-br), English	Luis Ricardo Oliveira
Covid-19 in Italy	Deep dive Apex Charts using data provided by Italian "Protezione Civile" An application that graphically shows the data communicated daily by the "Italian Civil Protection" relating to the situation in Italy, of those infected with COVID-19, of the recovered, hospitalized patients, Tests performed, Home isolated and any variation and trend for each day.	Italy	Italian	Alessandro Bracchini, Federico Bernardini, Francesco Scarano
GLOBAL COVID'19 Tracker	Description: Its a web based user-friendly application to track global stats for the corona virus outbreak. It consumes live data from trusted APIs. Every 15 minutes, data will be refreshed automatically.	Global	English	Karkuvelraja Thangamariappan [4 Apps Solutions]

Built with using [APEX](#) [Set Screen Reader Mode On](#)



Summary

Oracle APEX - Short Term Features

- New Oracle APEX Cloud Service
- Native support for server-side JavaScript (Multilingual Engine)
- Data Loading from OCI Object Store
- Native support for Autonomous Data Warehouse service levels
- Support for MySQL as a data source





Oracle was named a November 2019 **Gartner Peer Insights Customers' Choice** for Enterprise Low-Code Application Platforms for Oracle APEX.



Reviews from enterprise peers—verified by Gartner
gartner.com/reviews/customers-choice/enterprise-low-code-application-platform

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G2 Crowd:

Best Low-Code Development Platforms Software

Best Low-Code Development Platforms Software

What is Low-Code Development Platforms Software?

Low-code development platforms provide development environments that allow businesses to develop software quickly with minimal coding, reducing the need for extensive coding experience. The platforms provide base-level code, scripts, and integrations so companies can prototype, build, or scale applications without developing complex infrastructures. Both developers and non-developers can use these tools to practice rapid application development with customized workflows and functionality. Some products are geared more toward developers and require coding for functionality, while others provide element libraries for design. Many products can interpret information from databases or spreadsheets and quickly create applications to access and manage information.

These products differ from **no-code development platforms** because they focus on a greater level of functionality with customized code. While some no-code development platforms are code extensible, low-code platforms feature code customization as a primary function rather than an "as needed" solution. Their functionality also differs from that of a full **integrated development environment**, which provides the framework to program complete applications from scratch.

To qualify for inclusion in the Low-Code Development Platforms category, a product must:

- Generate source code as a base for customization
- Allow developers to customize HTML markup and source code as a primary function
- Integrate with databases, web services, or APIs to connect data

[Show Less](#) ^

Top 10 Low-Code Development Platforms Software ⓘ

OutSystems | Spring Boot | Claris | Salesforce Lightning Platform | Pega Platform | Kissflow | IAR Embedded Workbench | Oracle Application Express | Mendix | Zoho Creator



Constellation ShortList™

Enterprise Low Code Tools & Platforms

Q1 2020

ENTERPRISE LOW-CODE TOOLS & PLATFORMS

APPIAN

GOOGLE APP MAKER/
APPSHEET

INTEGROMAT

MENDIX BY SIEMENS

MICROSOFT POWERAPPS

ORACLE APEX

CONSTELLATION
ShortList™

12

solutions
to know

OUTSYSTEMS

PEGASYSTEMS

SALESFORCE LIGHTNING

SERVICENOW

VINYL BY ZUDY

ZOHO CREATOR

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Industry's most-used Enterprise Low Code Platform

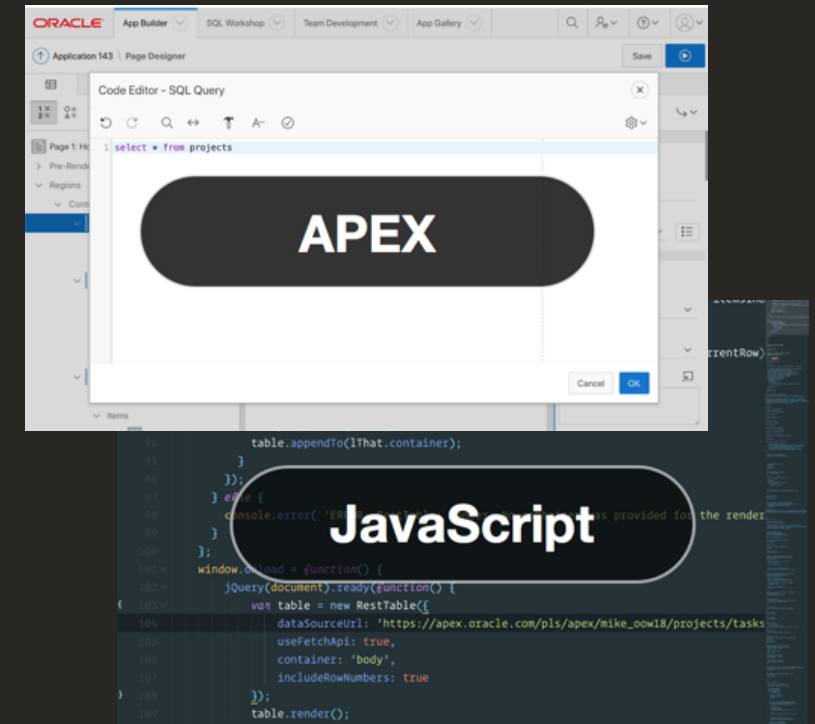
- Customers 50k
- Developers 500k
- Applications 2.2m+
- New Apps per day 3k+
- Installs per day Hundreds
- Daily end users Millions
- Weekly page views Billions



Oracle APEX

FREE

- Industry leading low code app dev platform
- Easy to learn and get started
- SQL and REST friendly
- Build responsive & mobile apps
- Included (free) with all Oracle Databases
- Part of Always Free Oracle Cloud
- Global success stories across all industries
- Loved by 500K+ developer community



20x faster with 100x less code

More information about Oracle APEX

apex.oracle.com

Thank You



Joel R. Kallman

Senior Director, Software Development
Oracle Database Server Technologies

