

# Oracle Application Express (APEX)



Oracle Global Leaders Summit Meeting Americas 2020

September 3, 2020

Joel R. Kallman

Senior Director, Software Development

 @joelkallman

## Safe Harbor

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The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

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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

# APEX is the industry's most-used Enterprise Low Code Platform

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Customers

50k

Developers

500k

Applications

2.2m+

New apps per day

3k+

Installs per day

Hundreds

Daily end users

Millions

Weekly page views

Billions

# 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

# The Benefits of Low Code



Faster Delivery



Greater Quality & Consistency



Easier to Learn



Less Cost



More Reliable

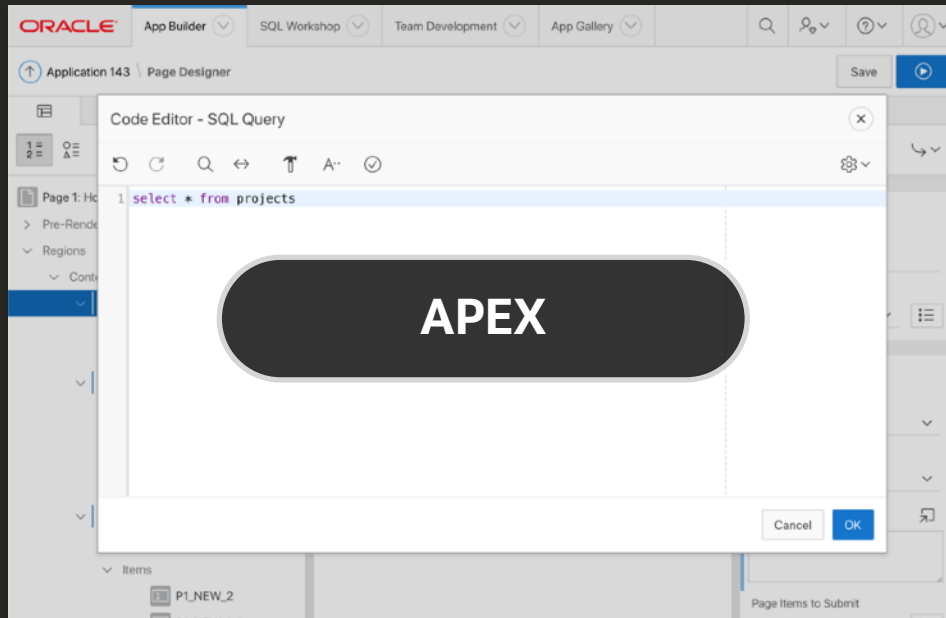


Flexible



# Productivity vs Hand Coding

Low Code



Lots of Code



VS

Oracle APEX is 20x faster with 100x less code

# Oracle APEX

Low Code Application Development Framework



Develop desktop and mobile web apps



Visualize and maintain database data



Leverage SQL Skills and database capabilities



# Build APEX apps using native SQL



Machine Learning



Real-Time Analytics



IoT



Social Graph Analysis



Documents



Spatial Processing



Blockchain

# 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



# 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



# Demonstration

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Excel File Edit View Insert Format Tools Data Window Help

Tasks\_2020 Search Sheet

Home Insert Page Layout Formulas Data Review View Share

Clipboard: Paste, Copy, Paste with Options

Font: Helvetica Ne..., 10, Bold, Italic, Underline, Color, Background Color

Paragraph: Alignment, Number, Conditional Formatting, Format as Table, Cell Styles

Cells: Cells, Editing

Formula Bar: A1, fx, Project

	A	B	C	D	E	F	G	H	I
1	Project	Task Name	Start Date	End Date	Status	Assigned To	Cost	Budget	
2	APEX Environment Configuration	Identify server requirements	10/17/2020	10/18/2020	Closed	John Watson	100	200	
3	APEX Environment Configuration	Determine Web listener configuration(s)	10/18/2020	10/18/2020	Closed	James Cassidy	100	100	
4	APEX Environment Configuration	Specify security authentication scheme(s)	10/19/2020	10/21/2020	Closed	John Watson	200	300	
5	APEX Environment Configuration	Select servers for Development, Test, Production	10/19/2020	10/24/2020	Closed	James Cassidy	200	600	
6	APEX Environment Configuration	Run installation	10/27/2020	10/27/2020	Closed	James Cassidy	100	100	
7	APEX Environment Configuration	Configure Workspace provisioning	10/26/2020	10/26/2020	Closed	John Watson	200	100	
8	APEX Environment Configuration	Create pilot workspace	10/26/2020	10/26/2020	Closed	John Watson	100	100	
9	Bug Tracker	Train developers on tracking bugs	1/7/2020	2/27/2020	On-Hold	Myra Sutcliff	0	2,000	
10	Bug Tracker	Measure effectiveness of improved QA	1/19/2020	2/19/2020	Pending	Myra Sutcliff	0	1,500	
11	Bug Tracker	Document quality assurance procedures	12/3/2020	1/6/2020	Open	Myra Sutcliff	3,500	4,000	
12	Bug Tracker	Review automated testing tools	11/1/2020	12/2/2020	On-Hold	Myra Sutcliff	2,750	1,500	
13	Bug Tracker	Implement bug tracking software	10/31/2020	10/31/2020	Closed	Myra Sutcliff	100	100	
14	Convert Excel Spreadsheet	Collect mission-critical spreadsheets	12/2/2020	2/3/2020	Open	Pam King	2,500	4,000	
15	Convert Excel Spreadsheet	Lock spreadsheets	12/2/2020	5/16/2020	Open	Pam King	1,000	800	
16	Convert Excel Spreadsheet	Create APEX applications from spreadsheets	12/2/2020	5/16/2020	Open	Pam King	10,000	6,000	
17	Convert Excel Spreadsheet	Send links to previous spreadsheet owners	12/3/2020	5/18/2020	Open	Pam King	1,000	1,500	
18	Discussion Forum	Identify owners	12/6/2020	12/9/2020	Closed	Hank Davis	250	300	
19	Discussion Forum	Install APEX application on internet server	12/14/2020	12/14/2020	Closed	Hank Davis	100	100	
20	Discussion Forum	Monitor participation	12/15/2020	12/23/2020	Open	Hank Davis	450	500	
21	Email Integration	Check software licenses	11/27/2020	11/30/2020	Closed	Mark Nile	200	200	
22	Email Integration	Get RFPs for new server	11/30/2020	12/21/2020	Open	Mark Nile	2,000	1,000	
23	Email Integration	Complete plan	10/24/2020	12/1/2020	Closed	Mark Nile	3,000	1,500	
24	Email Integration	Purchase backup server	12/30/2020	1/25/2020	Pending	Mark Nile	0	3,000	
25	Employee Satisfaction Survey	Complete questionnaire	12/5/2020	12/19/2020	On-Hold	Irene Jones	1,200	800	
26	Employee Satisfaction Survey	Review with legal	12/27/2020	1/2/2020	On-Hold	Irene Jones	200	400	
27	Employee Satisfaction Survey	Plan rollout schedule	1/3/2020	1/11/2020	On-Hold	Irene Jones	0	750	
28	Forms Conversion	User acceptance testing	2/4/2020	5/6/2020	Pending	Russ Saunders	0	2,500	
29	Forms Conversion	Migrate pilot Forms to APEX	11/22/2020	12/7/2020	Closed	Scott Spencer	400	500	
30	Forms Conversion	Migrate Oracle Forms	12/13/2020	4/21/2020	Open	Pam King	300	12,000	
31	Forms Conversion	End-user Training	3/6/2020	5/18/2020	Pending	Myra Sutcliff	0	2,500	
32	Forms Conversion	Rollout migrated Forms in APEX	5/9/2020	5/20/2020	Pending	Pam King	0	500	
33	Forms Conversion	Post-migration review	12/8/2020	12/8/2020	Closed	Pam King	100	100	

Sheet 1 - tasks (1)

Ready Count: 8 100%

MEM 68% Sun Aug 9 21:18 Joel Kallman

0.66 ABP (=) 0.7s

Joel Kallman

Team Development

App Gallery

Messages 174

Applications Tables

Productivity Apps Issues

Resources

- Community Site
- apex.world
- Blog
- Hands-On Labs
- Education

Social

Available Updates

# APEX in the Real World

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# Aria People: Employee Directory

The screenshot shows the Oracle Aria employee directory profile for Joel Kallman. At the top, there is a navigation breadcrumb: Board of Directors > Lawrence Ellison > Andrew Mendelsohn > Michael Hichwa > Joel Kallman. The profile card includes a profile picture of Joel Kallman, his name, and title: Senior Director, Software Development. Below this, there are several contact and utility links: Location (Dublin OH, US - 7:01 PM Sat), Email (joel.kallman@oracle.com), Work Phone (+1 614-376-1758), Mobile Phone (+1 614-571-2567), Calendar (Check calendar availability), and Permalink (@jkallman). The profile is divided into two tabs: Profile (selected) and Organization. The 'About' section states that Joel manages the development and product management of Oracle Application Express (APEX). It lists his responsibilities for APEX, including internal production and external customer evaluation. It also lists his contributions to the Autonomous Database. The 'Contact Information' section provides his mobile number, intercall number, and a Zoom video conference link. The 'Location' section is partially visible at the bottom.

ORACLE ARIA Search...

Board of Directors > Lawrence Ellison > Andrew Mendelsohn > Michael Hichwa > Joel Kallman >

**Joel Kallman**  
Senior Director, Software Development

**Location** Dublin OH, US · 7:01 PM Sat

**Email** [joel.kallman@oracle.com](mailto:joel.kallman@oracle.com)

**Work Phone** +1 614-376-1758

**Mobile Phone** +1 614-571-2567

**Calendar** [Check calendar availability](#)

**Permalink** [@jkallman](#)

Profile Organization

## About

Joel manages the development and product management of Oracle Application Express (APEX).

Responsible for:

- Application Express (APEX)
- apex.oraclecorp.com (internal production)
- apex.oracle.com (external customer evaluation)

Contributes to:

- Autonomous Database (<https://apex.oracle.com/autonomous>)

## Contact Information

**Mobile**  
+1.614.571.2567

**InterCall**  
+1.866.682.4770 Meeting ID: 8506858

[Zoom Video Conference](#)

## Location

# Reserve My Space: Office Reservations

The screenshot shows the 'Reserve My Space' web application. At the top, there is a navigation bar with the ARIA logo, a search bar, a 'Reserve Office Space' button, and a user profile icon. The main content area is titled 'Reserve My Space' and includes a navigation menu with 'Make a Reservation', 'My Reservations', 'Office Locations', and 'Help'. Below the menu is a 'Select a Location' section with a search bar and a magnifying glass icon. A message asks if the office is closed and points to the 'Office Locations' page. A list of four office locations is displayed, each with a radio button, name, address, status ('Closed'), and a 'Details' link.

Location	Address	Status	Action
<input type="radio"/> Columbus - Dublin Tuller	4378 Tuller Road, Dublin, OH, 43017, US – My Office Location	Closed	<a href="#">Details</a>
<input type="radio"/> Cleveland - Beachwood Richmond	3333 Richmond Road Suite 420, Beachwood, OH, 44122, US	Closed	<a href="#">Details</a>
<input type="radio"/> Cleveland - Solon Parkland	6675 Parkland Blvd., Solon, OH, 44139, US	Closed	<a href="#">Details</a>
<input type="radio"/> Dayton - Beavercreek	3610 Pentagon Blvd Suite 205, Beavercreek, OH, 45431, US	Closed	<a href="#">Details</a>



# Payroll Approvals

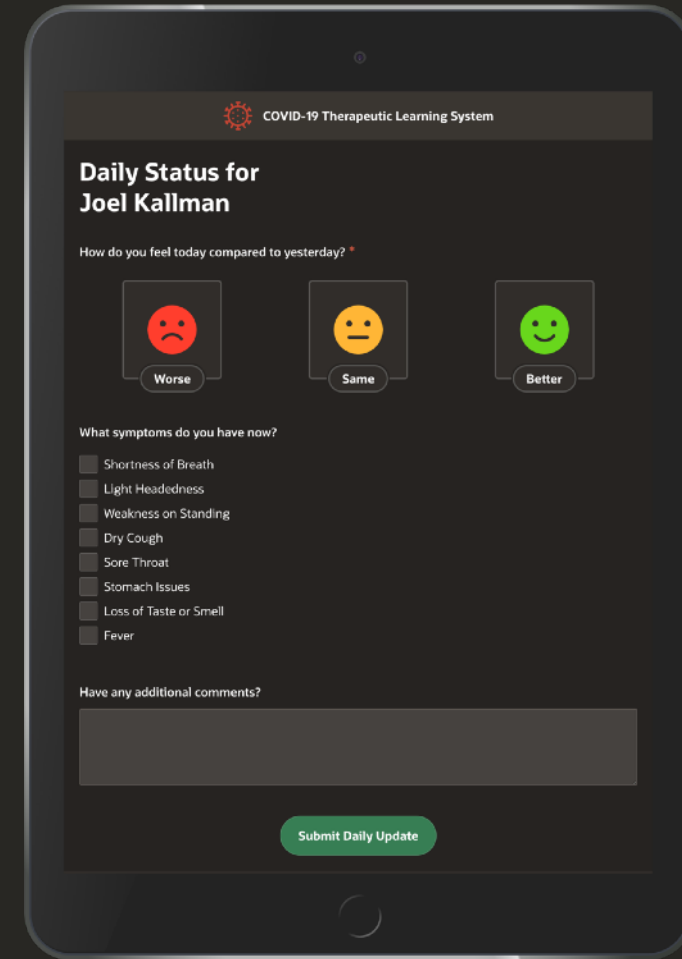
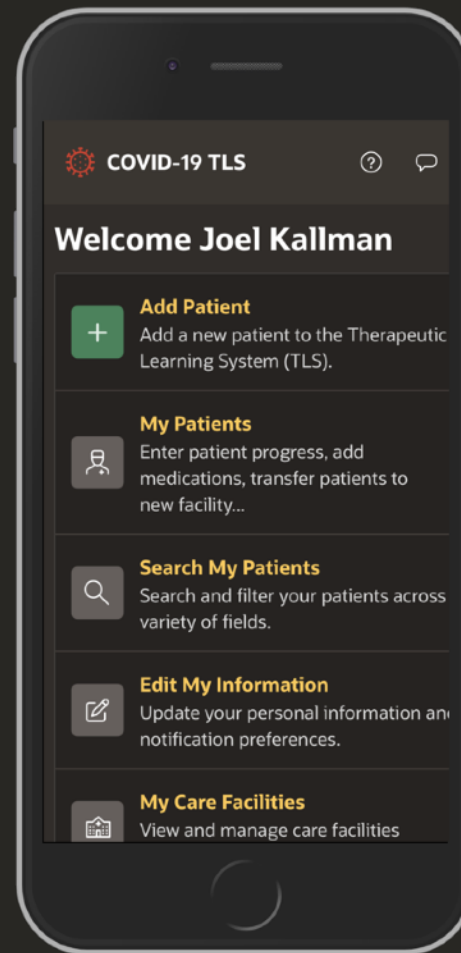
The screenshot displays the 'Global Payroll Approval Template' application. The interface features a blue header with the application name and a user profile 'andras.a.toth@oracle.com'. A dark sidebar on the left contains navigation links: Home, Create New GPAT, In process GPAT, Submitted GPAT, Approved GPAT, Get G2N Macro, Reporting, Configuration, Information & Help, and Video Tutorials. The main content area is a grid of nine cards, each with an icon, a title, and a brief description. An information banner at the top of the main area states: 'This tool is intended to help in process of preparation, review and approve the Global Payroll Approval Templates.'

Icon	Title	Description
	Create New GPAT	Create New GPAT from the scratch
	GPAT in progress	Use to find and update existing GPATS, which are in status: New, Rejected or Withdrawn.
	Submitted GPAT	Review GPATS submitted for approval.
	Approved GPAT	Find and view details about approved GPATS
	Get Excel Macro for G2N data extraction	Download Excel macro for extracting data from G2N reports.
	Reporting	Review details of GPAT reports and export data to Excel.
	Configuration	Use to update Element Dictionary and settings.
	Help & Information	Information related to GPAT process and variance (flux) explanations.
	Video Tutorials	Watch "How to..." video tutorials on OTube. Will open a new window.

Release 1.2 Built with using Oracle APEX

# 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](#)

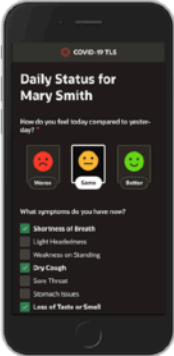
PART OF A ZDNET SPECIAL FEATURE: [CORONAVIRUS: BUSINESS AND TECHNOLOGY IN A PANDEMIC](#)

## 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.

[Share](#) [Facebook](#) [LinkedIn](#) [Twitter](#) [Email](#) [Alert](#)

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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**The power of IoT and big data (TechRepublic Premium)**  
Research from [TechRepublic Premium](#)

**READ NOW**



# Coronavirus Prevention Network Vaccine Trials (CoVPN)

Developed and deployed in ~2 weeks with Oracle APEX

## What it does:

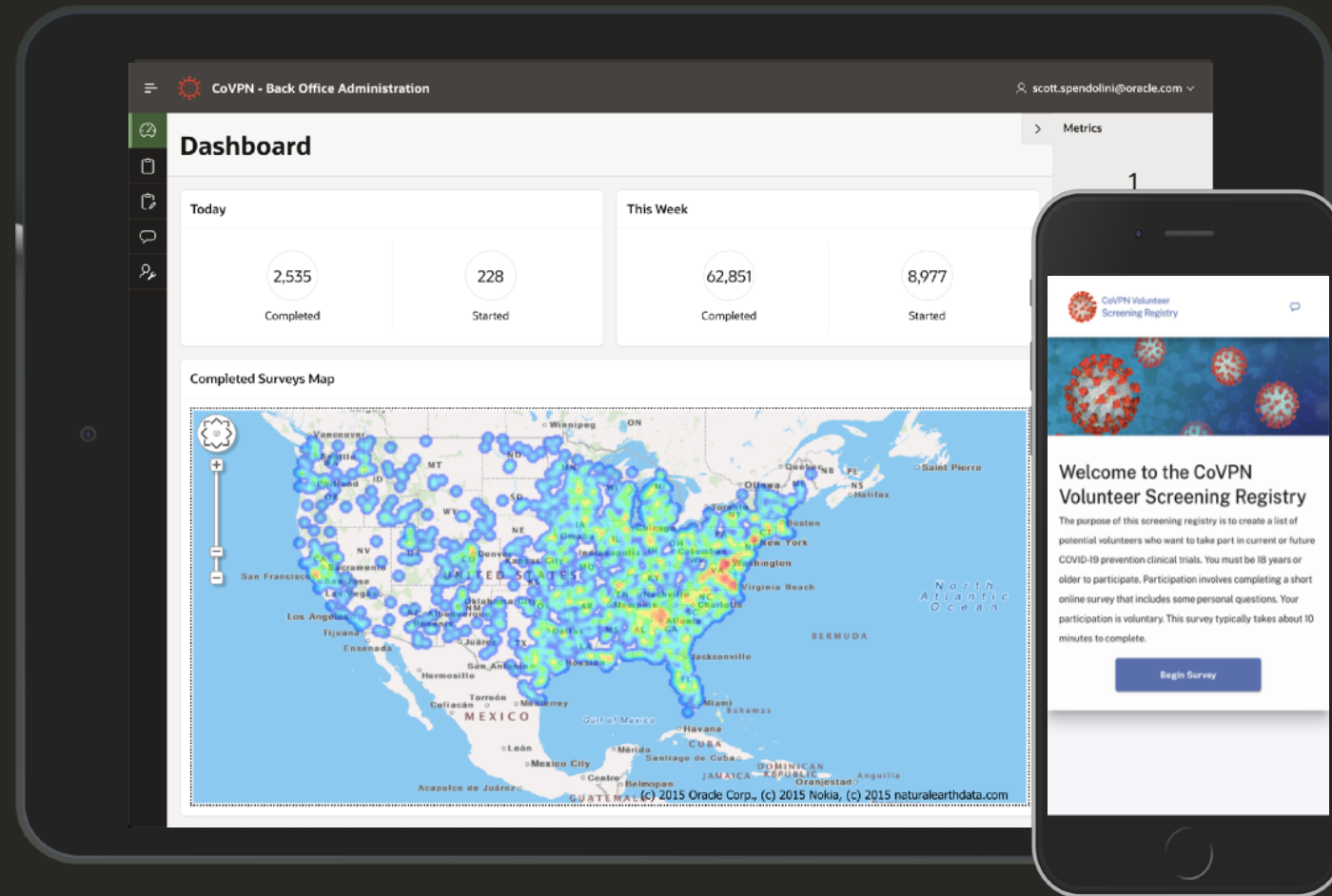
- Intake survey designed to collect volunteers for CoVPN

## How it works:

1. Patients register online and take quick survey
2. Results are analyzed and scored
3. Patients who meet criteria are advanced to clinical vaccine trials



**Over 60,000 people signed up in less than a week**



# 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 application cards, each with a title, description, and metadata (Scope, Language, Author).

Application 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, Polish	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 Jumna
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 Sciarano
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](#)

# 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

**i** 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? \*

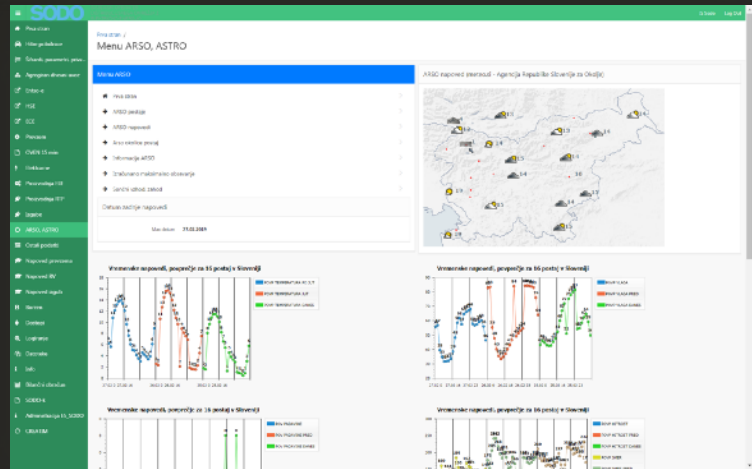
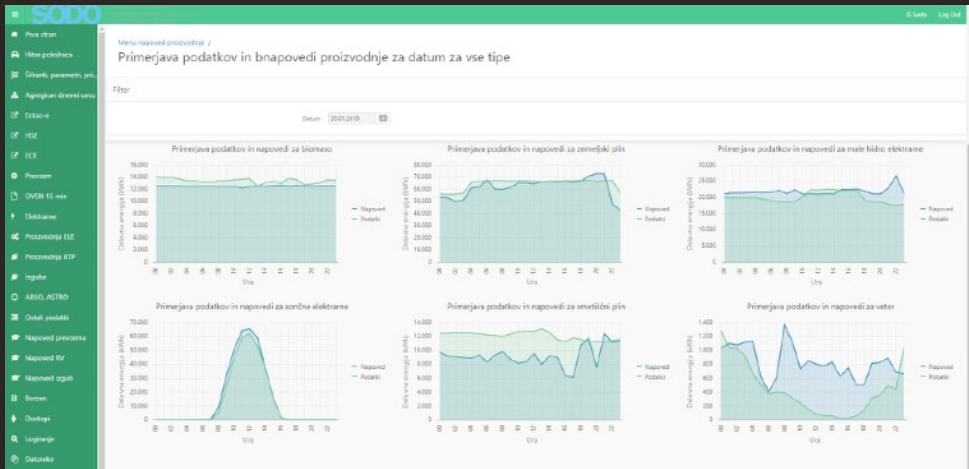
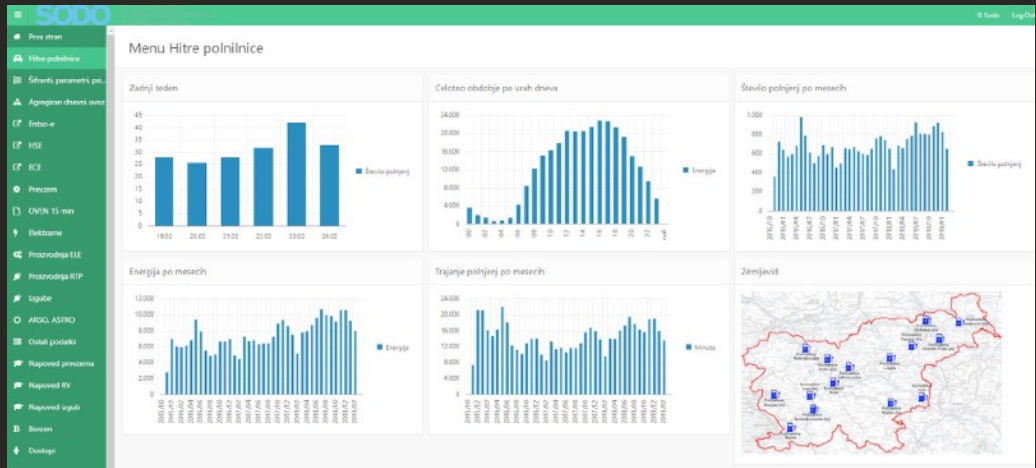
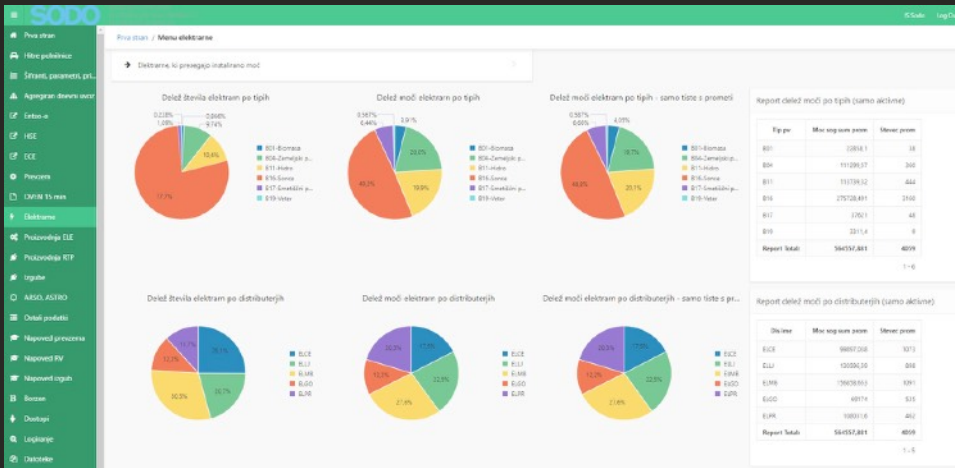
Ie  Na

**i** Mae'r awdurdod bellach yn defnyddio what3words fel ffordd syml o rhoi gwybod am unrhyw leoliad.  
Yn 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 Faris

\* Middle Name Faisal

\* Family Name Hamed

\* Emirates ID 611111111111116

\* Phone 09900000

\* Email faris.hamed@esting.test

**Employer Details**

\* Company Name AD/ETI

\* 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

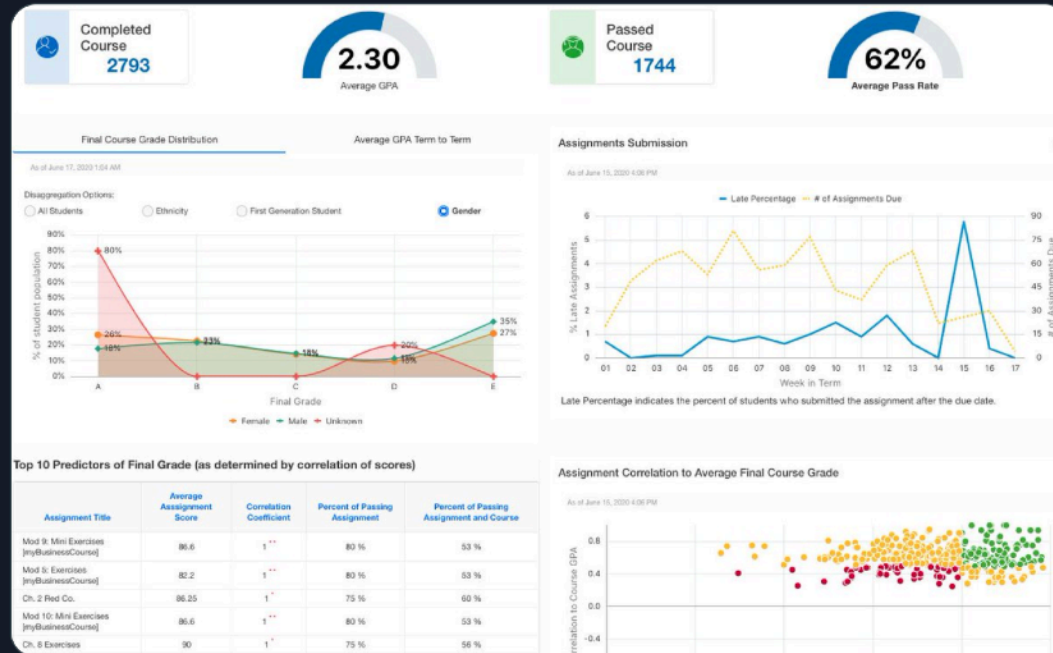
[History](#)





**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](#)



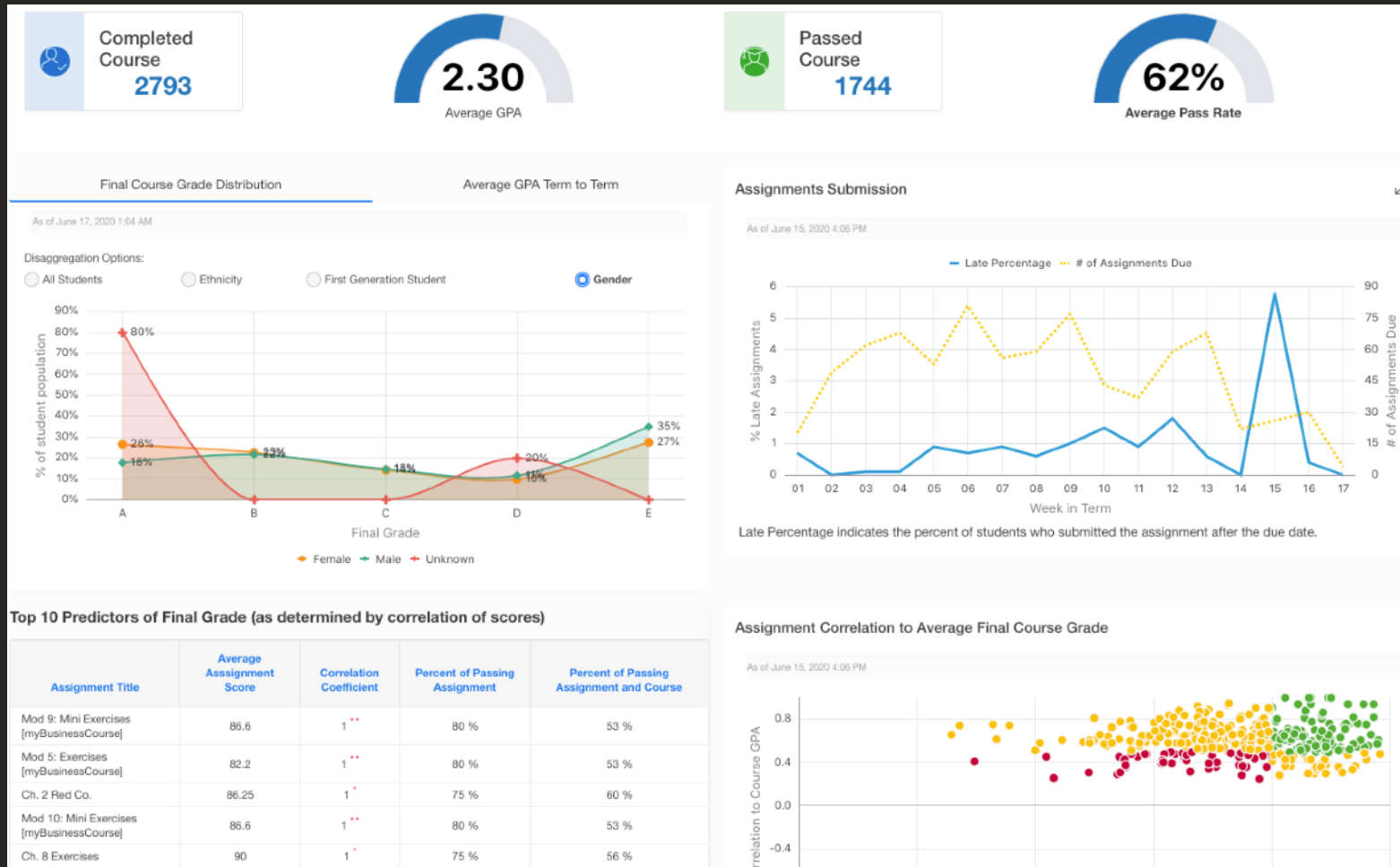
5:04 PM · Jun 17, 2020 · [Twitter Web App](#)

19 Retweets 98 Likes



# Salt Lake Community College

## Faculty Dashboard



# Direction & Summary

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# Oracle APEX - Short Term Features

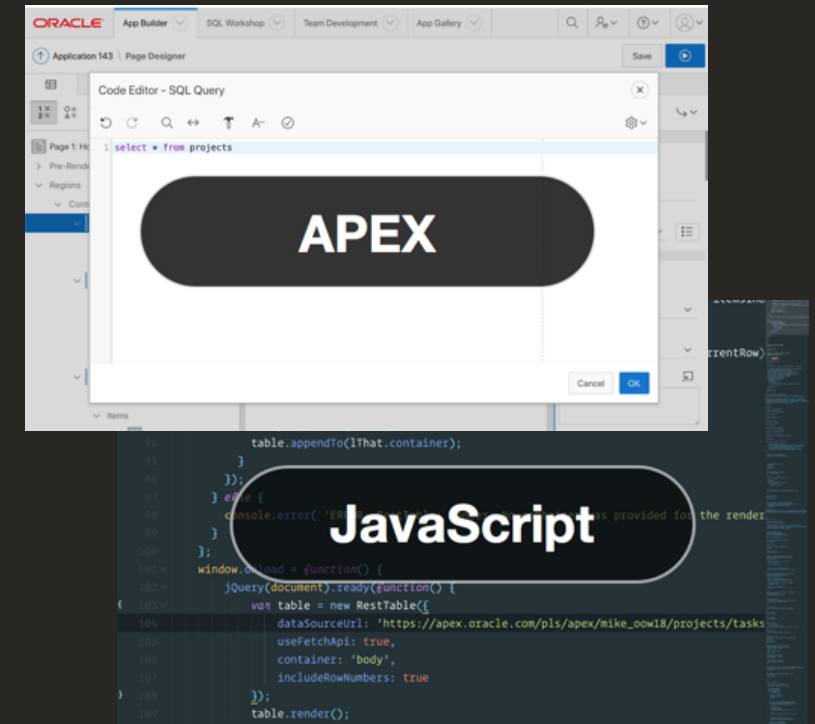
- New Oracle APEX Cloud Service
- Native support for server-side JavaScript (Multilingual Engine)
- Support for MySQL as a data source
- Automations (asynchronous actions)
- Data Loading from OCI Object Store
- Native support for Autonomous Data Warehouse service levels



# 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

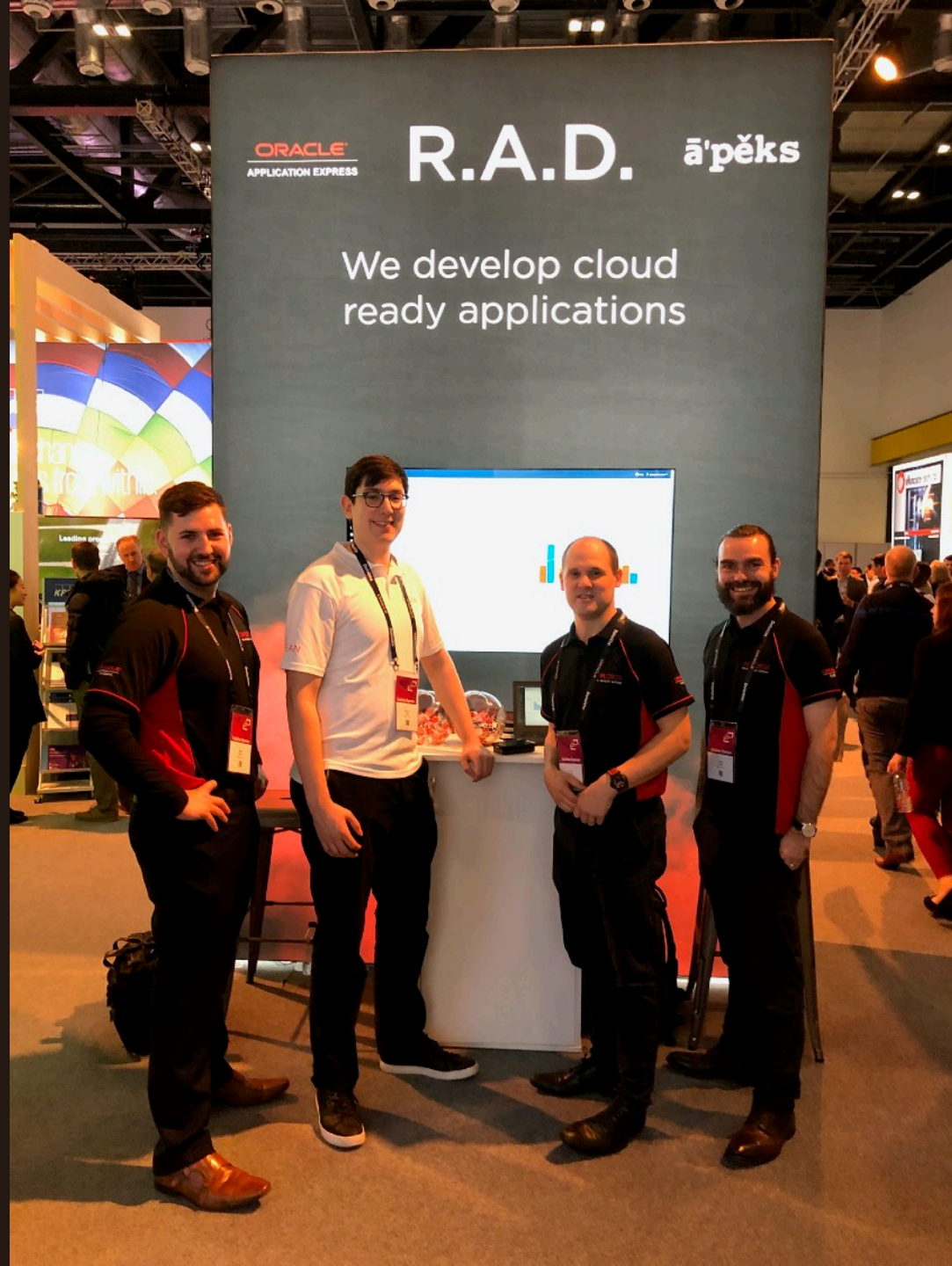


20x faster with 100x less code

ORACLE  
APPLICATION EXPRESS

R.A.D. ā'pēks

We develop cloud  
ready applications



# More information about Oracle APEX

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

# Thank You



**Joel R. Kallman**

Senior Director, Software Development  
Oracle Database Server Technologies





**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](https://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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