

APEX WORLD

LET'S INTEGRATE!



à'péks
world

FULL program

WITH ALL ABSTRACTS

NL.OUG
NL ORACLE USER GROUP



APEX World 2023

NL.ORG
NL ORACLE USER GROUP

Thursday March 30th

Room 6
EXTRA
HANDSON SESSION
11:55-12:45
**Flows for
APEX - How
to Start**
MORITZ KLEIN

08.45 - 09:30

WALK-IN & REGISTRATION

09:30 - 10:30

Keynote - Oracle APEX in 2023 - Marc Sewtz

10:30 - 10:55

BREAK

Room 1 + 2

Room 3

Room 4+5

Building real time APEX Maps with WebSocket
(Intermediate)
Kevin Thyssen

Lets talk chatbots: How to integrate Oracle Digital Assistant into APEX
(Beginner)
Luc Bors

Hybrid project management in APEX projects - Real Life Experience
(Customer Case)
Jochen Michels

10:55 - 11:45

Realtime gaming in APEX using WebSockets
(Beginner)
André van der Put

Give your end-users an overview of their tasks
(Beginner)
Dimitri Gielis

Plan Your Visit with APEX
(Intermediate)
Karen Cannell

11:55 - 12:45

12:45 - 13:45

LUNCH

Offloading your BLOBs to cloud object storage
(Intermediate)
Robin Verstrepen

Your data at your wrist
(Deep Dive)
Dick Dral

Based on a true story: The APEX Chain Saw Massacre! All the ways your project can go wrong ... *(Beginner)*
Dominik Grabiński

13:45 - 14:35

Low-Code JavaScript? Introducing Dynamic Actions!
(Beginner)
Jackie McIlroy

Are you a report-conductor?
(Beginner)
Richard Martens

Deconstructing the APEX Application Development Lifecycle Paper
(Deep Dive)
Matt Mulvaney

14:45 - 15:35

15:35 - 16:05

BREAK

It's Time to Get Ready for the Power of PL/SQL and JavaScript Combined
(Beginner)
Rodrigo Mesquita

How to handle Deprecated, Desupported and Changed Behaviour
(Beginner)
Oliver Lemm

Oracle-enhanced Liquibase SQLcl features vs standalone Liquibase. What's best for you?
(Deep Dive)
Rafał Grzegorzcyk

16:05 - 16:55

17:00 - 18:00

NETWORK DRINK

18:00 - 20:00

DINNER

*This program is subject to changes

MARCH 30

KEYNOTE 9:30 - 10:30



Oracle APEX in 2023

Oracle APEX continues its momentum, inside Oracle and within the global Low Code development community. In this session, we'll take a retrospective of significant milestones over the past year and explore what lies ahead. We'll show some of the new features to look forward to in APEX 23.1, including Template Reports using our new Dynamic Templates, easier invocation of REST APIs, advances to PWAs, a new option to run page processes in the background and closer integration with SQL Developer Web. We'll conclude this session with a preview of the Oracle APEX roadmap for 23.2 and beyond.



Marc Sewtz
(Oracle)

Senior Director of Software Development at Oracle in New York City. Responsible for the development and delivery of Oracle Application Express (APEX). Leads a global software development team. Joined Oracle in 1998, working several years for Oracle Consulting in Europe and the US. Joined the APEX development team in 2002.

MARCH 30 - 10:55-11:45



Building real time APEX Maps with WebSocket

The Map region has received some significant updates with the latest releases of APEX, which makes visualising geographical data easier than even before. But wouldn't it be great if we could add real time updates for every user of our application?

In this session, I will explain key concepts and show you how to build a map with additional functionality. By using the APEX Map region, JavaScript and the WebSocket protocol, we can create an interactive application with great user experience!

During this session, I'll go more into detail about the features of the APEX Map region, such as layers, GeoJSON and its Dynamic Actions. I will explain key concepts of the WebSocket protocol and how to set up a basic Node.js server combined with the Socket.io library for real time communication. All of these functionalities will be shown in a demo application, in which attendees will be able to participate.

Because of the visual aspect, the APEX Map region is great for displaying real time updates. But the WebSocket protocol can be used for all kinds of use cases. With this session, I would like to share some basic techniques that other developers could also use in their applications.



Kevin Thyssen
(United Codes)

I'm a senior Oracle APEX consultant at United Codes with more than 10 years experience. During these years I've worked on several large projects in chemical, pharmaceutical and financial industries, as well as the public sector. Furthermore, I'm always enthusiastic about new technologies. Cycling is one of my passions and I'm always in the mood for an outdoor adventure!

Lets talk chatbots: How to integrate Oracle Digital Assistant into APEX

In this session I will share my extended Oracle Digital Assistant knowledge and explain to the audience how to develop a Digital Assistant, and how to integrate it with an APEX application. I share my knowledge based on real life ODA experience and based on the ODA book that I published. The session will contain basic concepts of ODA to get started, key integration concepts, real live demo's and some advanced features as take aways.

Oracle Digital Assistant (ODA) is Oracle's enterprise solution for Chatbots. It has been around for a while and has evolved into one of the most advanced chatbot solutions currently available. There are many ways to use it. One of them is to integrate ODA with Oracle APEX. In this session you will learn fundamental concepts of ODA, how to setup a Digital Assistant and finally how you can add this DA to an APEX application.



Luc Bors
(BOHORT)

Luc Bors is an Oracle ACE Director specialised in various Oracle technologies amongst others Oracle JET and Oracle Digital Assistant. He has many years of experience as a Principal Consultant, Architect, and Trainer. Luc regularly writes articles for international magazines, websites, and his personal blog, and he is author of Oracle Mobile Application Framework published by Oracle Press in 2014 and Oracle Digital Assistant: A Guide to Enterprise-Grade Chatbots published by Apress in 2020. Luc is a frequent presenter at international conferences such as ODTUG Kscope, Oracle OpenWorld, Oracle Code and UKOUG Tech.

Hybrid project management in APEX projects – Real Life Experience

The tender defines the functional scope. The timeline is set. The negotiated price is fixed. Nevertheless, the customer demands an agile approach, and as a developer that is the preference anyways.

In this session we present our experiences and will show a hybrid approach, in which we transfer the requirements catalog into an agile approach and involve the customer in the development process from the first step to the final rollout.

Using a real project with multiple developers and project staff as an example, we show how to take advantage of APEX and fully involve the customer in the daily project work. Starting with daily standups with the product owner up to regular reviews with a larger number of key users.

A success story where we not only incorporate agile and iterative development, but also integrate elements such as CI/CD pipeline, automated testing, and project management for APEX with the Cloudogu Ecosystem.



Jochen Michels
(Triology GmbH)

I am working as an APEX developer and Senior IT Consultant for TRILOGY GmbH in Braunschweig, Germany. I have been working with Oracle databases for about 10 years now, starting with developing ETL processes and now focusing on Oracle APEX development.

In addition I am giving talks at conferences such as DOAG APEX Connect and OAG Konferenz + Ausstellung.

Realtime gaming in APEX using WebSockets

Normal APEX interaction flows from the client to the server: the browser submits a request, and the server gives a response. But in some cases you need a flow from the server to the client, or even between clients.

Examples are interactive gaming, or push notifications from the server to indicate a certain server process has finished. In this presentation we will show how we can use WebSockets to achieve communication between multiple APEX clients, and between the database and the client.



André van der Put
(Open-Fine)

André van der Put has been working with Oracle technology since 1997. The last 12 years his main focus is on Application Express. Currently he is employed by Open-Fine, where he is building and maintaining APEX applications for various clients.

Give your end-users an overview of their tasks

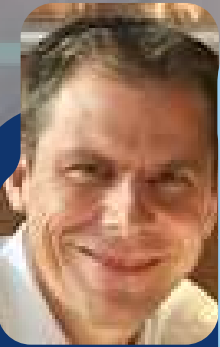
The new APEX 22.2 unified task list shows all initiated user tasks in the workspace.

The task definitions are managed in Shared Components > Task Definitions and can even be shared across your APEX applications.

We will do a deep dive into how to provide your end-users with the status is on the different tasks in a visual matter.

We will look at different examples and implementations to fully understand how unified tasks can enhance your application.

Finally, we will look at when to use this feature or when you need a more rich experience that Flows for APEX gives you.



Dimitri Gielis
(United Codes)

Dimitri Gielis is the founder and CEO of United Codes, a company specializing in Oracle Application Express. He's also the founder of APEX Office Print (AOP), APEX Media Extension (AME), APEX Project Eye (APE) and Plug-ins Pro.

Dimitri is a frequent presenter at all the major Oracle conferences, an Oracle ACE Director, and received several awards among Oracle APEX Developer of the Year.

Plan Your Visit with APEX 🌴

Hear challenges faced and lessons learned building a simple Plan Your Visit app for a non-profit agency in the US Virgin Islands . Faceted search, map regions, a bit of geolocating, data generator, enable PWA, toss in a few other APEX features and Voila! you too can plan your visit to my favorite tropical destination.

The concept is simple - APEX makes it so - yet as in most projects, unexpected questions and challenges kept the journey interesting. Hear how we addressed questions such as:

- What type of APEX instance: ATP, Always Free, vs APEX Service?
- How to "geolocate" on an island with no addresses?
- How best to integrate seamlessly with existing websites?
- How best to re-purpose data from existing sources?
- Will PWA help or hinder?

We will also share some unexpected experiences using the Oracle Data generator, faceted search and PWA Attend and learn nuances of the APEX features used, or just relax, imagine your toes in the sand and bask in the photos for a mid-APEX World vacation.



Karen Cannell
(TH Technology)

Karen Cannell is President of TH Technology, a consulting firm focused on Oracle technology. Karen is an Oracle ACE Director, ODTUG Vice President, APEX gal, ODTUG Kscope Conference Chair, frequent Oracle user group volunteer and conference presenter. kcannell@thtechnology.com @thtechnology

EXTRA
HANDSON SESSION
11:55-12:45

Flows for
APEX - How
to Start

MORITZ KLEIN



See next page

MARCH 30 - 11:55-12:45



**HANDSON
SESSION**

Flows for APEX - How to Start

Flows for APEX is a community-driven BPMN 2.0 compliant workflow engine for use with APEX. Adding rich workflow functionality can really supercharge your APEX apps.

But maybe you don't know how to start?

This small workshop will give you the necessary knowledge to understand and use Flows for APEX in your next project.

Together with the participants I will explore what Flows for APEX is and how to use it. In addition we'll also take a quick look at native workflow capabilities in APEX for comparison.



Moritz Klein
(MT AG)

Moritz Klein has been working with Oracle technology since early 2001. Moritz shares his knowledge through his blog, on Twitter and by speaking at national and international conferences like the DOAG Annual Conference, APEX Connect, APEX World and Kscope.

After 6 years working for Ericsson as Data Warehouse Specialist, he's now with MT AG as Principal Consultant for APEX.

His main areas are Data Modeling, PL/SQL and Oracle APEX. Nowadays he's also adding JavaScript and DevOps to the mix.



**Bring your
own laptop**

**SUBSCRIBE AT EVENT OR
EMAIL
SECRETARIAAT@NLOUG.NL**

MARCH 30 - 12:45-13:45

A large graphic for 'LUNCH TIME'. It features a thick, hand-drawn brown circular border. Inside the circle, the words 'LUNCH TIME' are written in a large, bold, black, hand-drawn font. To the left of the circle is a black fork, and to the right is a black knife. The background of the entire page is a light blue grid with faint, stylized gears.

MARCH 30 - 13:45-14:35



Offloading your BLOBs to cloud object storage

Have you ever experienced the error “unable to extend lob segment”? Your DBA checks the segments and finds gigabytes of BLOBs in your tables. The quick solution is to add datafiles or even storage but what about the long-term solution?

Storing BLOBs in the database is not the best idea but how can we offload them? Local fileserver? Cloud? Cloud looks attractive but we have so many options: Oracle Object Storage, AWS S3, Azure Blob Storage, ... Which one do we choose? And most importantly, how do they work?

In this presentation I'll take a look at how cloud object storage like Oracle Object Storage works and how you can configure and implement it in your APEX application.

In the first part of the presentation I'll take a look at how cloud object storage works and how we can configure it to store data and most importantly, keep it secure. Thereafter I'll explore the various API's and use demos to get, add, update and delete files from an APEX application.



Robin Verstrepen
(iAdvise)

Robin Verstrepen's interest in Oracle APEX started seven years ago during his internship at iAdvise. He has always been interested in web development, and he enjoys sharing his knowledge in APEX, SQL, PL/SQL, HTML, CSS, and JavaScript with all of his colleagues during monthly webinars. He was the youngest presenter on ODTUG's Kscope 2018 at age 23.

Your data at your wrist

Oracle APEX on Apple Watch

How would it be when you could access the Oracle database from your wrist. What use cases could you come up with?

I have got a use case and I will show you how to access your APEX application from your smartwatch. Of course this application will have to be adapted to the characteristics of the device, having a small screen and no keyboard. In this presentation I will show you how to create such an application. This application will allow users not only to retrieve data but also to change them. For this purpose a number of new methods will be introduced. All this will be demonstrated live.



Dick Dral
(Detora)

Dick is a seasoned developer, working with Oracle since 1988, and an APEX developer since 2007. He likes to share his knowledge through presentations and blog posts.

Based on a true story: The APEX Chain Saw Massacre! All the ways your project can go wrong ...

For several years I have been working on APEX applications that were worked on by 1 to 10 developers. Everyone has a different level of knowledge and experience.

But why am I telling you this? Because this presentation is not only my experience but also thousands of hours worked for clients from many industries: pharmacy, telecommunications, logistics, banking, and aviation. And with the courtesy of my colleagues from work and my own experience also, I have collected a few interesting examples: sometimes funny, sometimes tragic, but as a warning and learning for others.

Anyone at this time may have a weaker day. This presentation includes cases of those bad days when the author let his imagination run wild!

Why do I want to talk about it? Because the longer I work, the more I think that it should be shown openly, and not just silently sigh and quietly correct someone's not entirely successful work. Every failure is a substitute for success. Instead of being ashamed of mistakes and hiding them as soon as possible, it is enough to show them as a lesson and maybe even an idea to improve something globally!

This presentation is both humorous and didactic. For one developer, it will be fun, for another, it will be a lesson: how to do or not to do something. What lesson can you learn from this? Therefore, apart from funny examples, I would like this presentation also to include instructive values worth remembering.



Dominik Grabiński
(Pretius Low-Code)

Oracle APEX developer at Pretius Low-Code with over five years of experience in Oracle Database and APEX development. Gaining experience in pharma, telecommunications, and banking. Author of blog articles. Speaker at Kscope, APEX World, Alpe Adria, and HrOUG. I am interested in finding humor in everyday life, but also more serious topics such as good series or movies and games from the Diablo series.

Low-Code JavaScript? Introducing Dynamic Actions!

Are you new to APEX? Do you want to be able to take your applications to the next level with very little knowledge of JavaScript? If so, learning the basics of dynamic actions is a must! Dynamic Actions are a powerful tool that allows you to quickly and easily define client-side behavior declaratively with little or no knowledge of JavaScript. In many cases, you can even use them without writing any code; however, dynamic actions can still be daunting to any APEX developer.

In this session, I'll introduce and explain the concept of dynamic actions highlighting how you can use them to simplify your development and bring power to your APEX applications using examples ranging from basic to advanced.



Jackie McIlroy
(United Codes)

Jackie McIlroy is an Oracle APEX developer based out of Dallas, Texas, USA who has been tinkering with APEX since 2006. She currently works at United Codes with a focus on their products: APEX Office Print (AOP), APEX Media Extension (AME), APEX Project Eye (APE), and Plug-ins Pro. She is an Oracle ACE Pro, maintains an APEX-related blog (jackiemcilroy.blogspot.com), is on the ODTUG Board of Directors, is the APEX Content Chair for Kscope22, and is the organizer of the Dallas/Fort Worth Oracle APEX Meetup group. Jackie enjoys mentoring new APEX developers and helping others create awesome APEX applications.

Are you a report-conductor? Conduct your reports using template directives

You do not need to be an HTML guru to be able to beautify your reports. You do not be an HTML master adjusting templates or even creating new ones.

We will start conducting our reports using tiny HTML snippets, add them to our reports and give that extra bit of user experience that will make your application stand out above others!

Template directives allow you to give that little extra pizzazz needed to grab the attention of your user. This session explains the use of template directives, when to use them and why.



Richard Martens
(Smart4Solutions)

Richard Martens has been involved in information technology for more than 20 years. He started as a web developer using the Oracle database as no more than data storage. Richard has been responsible for major European multilingual websites and has been working with the Oracle database since 2000. During those years, he developed himself using a multitude of technologies and specialized in PL/SQL and Oracle APEX. With APEX, he combines the things he loves most: the Oracle database and web technologies.

Deconstructing the APEX Application Development Lifecycle Paper

In late 2022, the APEX team announced version 3 of the APEX Application Development Lifecycle Technical Paper. The whitepaper has been around for some time, however this version is somewhat revolutionary.

This paper contains the definitive guide of how APEX teams should implement best practices to develop, test and deploy APEX applications. Not only does it explain exactly what these best practices are, but this document actually provides you the scripts to automate much of this.

In 45 mins, I'll deconstruct 45 pages of Technical paper in the form of diagrams, flow charts and hands on demonstrations. I won't just be covering the theory here, but actually demonstrating these concepts live - so you can see first hand their usefulness.

I'll be discussing my own conversations with the author Steven Muench and detail both the Team-Centric & Feature Centric approaches detailed in this paper.

You won't want to miss out as this session covers the entirety of the DevOps process, including test automation, with advice directly from the APEX Team.



Matt Mulvaney
(Pretius Low-Code)

With around 20 years on the job, Matt is one of the most experienced software developers at Pretius. He likes meeting new people, travelling to conferences, and working on different projects. He's also a big sports fan (regularly watches Leeds United, Formula One, and boxing), and not just as a spectator - he often starts his days on a mountain bike, to tune his mind.

MARCH 30 - 16:05-16:55




It's Time to Get Ready for the Power of PL/SQL and JavaScript Combined

JavaScript, which is the most commonly used programming language in the world, has now enabled the development and management of modular code to be run directly on Oracle Database. Developers can use a combination of existing PL/SQL code, user-defined JavaScript code, and third-party JavaScript libraries from open source communities, to create and manage multilingual engine modules, and then make them accessible to SQL and PL/SQL.

In this presentation, attendees will learn how to use DBMS_MLE and the database APIs that allow developers to exchange data between JavaScript and PL/SQL through building practical examples chosen from actual, real-life experiences, which gives us a great opportunity to learn from and be inspired by!



 Oracle ACE Pro

Rodrigo Mesquita
(QV Systems)

Rodrigo is a Senior Oracle Developer at QV Systems. He is an experienced software engineer with emphasis in analysis, design and development of bespoke Oracle applications utilising development tools such as APEX, PL / SQL, jQuery, JavaScript, CSS and JSON for a variety of international businesses. Rodrigo speaks regularly at Oracle community events and enjoys creating APEX plugins and writing blogs.

How to handle Deprecated, Desupported and Changed Behaviour

Building applications and bringing them to the last APEX version is not always easy. Looking into a new APEX release many people are focusing on the New Features. But which affect, do the Deprecated, Desupported and Changed Behaviour section mean. Which API's have been changed and what about changes inside the third party JavaScript APIs.

In this presentation you will get answers for your questions and an exact explanation what the different categories mean.

Which tools does support your step into the next release and how easy it can be to stay in the actual release.



Oliver Lemm
(MT AG)

Business Unit Leader APEX @ MT AG. Working since 2007 with APEX, Oracle Database and Portal technologies from Oracle. Working as an Architect, Coach, Project Leader or Developer.
Presenting on conferences like DOAG, KScope, IT-Tage, APEX World at more.

Oracle-enhanced Liquibase SQLcl features vs standalone Liquibase. What's best for you?

I've been using the standalone open-source version of Liquibase for a few years now. I have successfully implemented it into many projects. However, not so long ago Oracle incorporated their own custom version of Liquibase into the ever-popular SQLcl tool.

In this presentation, I will go through the many options available within the SQLcl edition of Liquibase and compare it with those available in standalone Liquibase.

If you are a user of either version or if you are just curious about how Liquibase can assist with Database control, then this is the presentation for you. Regardless of level, I'll present the differences between both editions pitched at just the right level.

Following this presentation, you will be clear in your mind which is the right version of Liquibase for your projects.



Rafał Grzegorzczak
(Pretius)

Oracle APEX & PL/SQL Developer with 10 years of experience in IT, including financial systems for government administration, energy, banking and logistics industry. Enthusiast of database automation. Speaker at SOUG, HrOUG, POUG and DOAG. Polar Bear Club member :) Love basketball.



APEX World 2023

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Friday March 31st

09.00 - 09:15

WALK-IN & REGISTRATION

09:15 - 10:15

Keynote - Leverage your internal processes using REST Synchronization and Automations - *Andreea Munteanu*

10:15 - 10:40

BREAK

Room 1 + 2

Room 3

Room 4 + 5

Play against vulnerability with APEX

A(bolutely) I(n sane) : Using ChatGPT to build an APEX application

Integration of External Libraries Froala and PDF Editor

(Beginner)

(Beginner)

(Expert)

Mirela Ardelean

Luc Bors

Dimitri Gielis

10:40 - 11:30

The power of classic report. Interesting solutions which can compete even with

Power to the PWA!

APEX Page Items in detail

IR or IG (Beginner)

(Intermediate)

(Deep Dive)

Bartosz Sypuła

Kevin Thyssen

Oliver Lemm

11:40 - 12:30

12:30 - 13:30

LUNCH

About the menu (a la carte or from the menu?)

Offline data manipulations in APEX for everyone with Plug-Ins and SQLite

A secure logon process: social sign-in or multi factor authentication

(Beginner)

(Intermediate)

(Beginner)

Richard Martens

Philipp Hartenfeller

André van der Put

13:30 - 14:20

Holy Grid

APEX New Features: An honest review from a non-APEX team perspective

Oracle Autonomous Databases for APEX Developer

(Intermediate)

(Beginner)

(Intermediate)

Moritz Klein

Matt Mulvaney

Timo Herwig

14:30 - 15:20

15:20 - 16:00

BREAK

16:00 - 17:00

Keynote - The evolution of templates - *Menno Hoogendijk*

17:00 - 18:00

NETWORK DRINK



*This program is subject to changes

MARCH 31

KEYNOTE 9:15 - 10:15



Leverage your internal processes using REST Synchronization and Automations

As a developer, you may encounter a lot of use cases where you need to manipulate and analyze external data sources.

How you do it in an easy way and centralize it in a single application? Well, using REST features and automations in APEX has never been simpler. Following the latest releases of APEX, handling REST APIs and automate processes based on them reduces complexity and your app becomes your single point of truth.

We will have a closer look on a Jira Service Desk integration with Oracle APEX, a way to keep track of the tickets for your specific projects. A detailed walk-through the REST endpoints along with building automated processes to support the data analysis will be covered in the session.

As a low-code platform, APEX helps developers use features like REST Synchronization and Automations in a declaratively manner, however, another option is also using APEX APIs.

Examples on how to use their respective APEX APIs will be provided as well as tips to handle potential errors.



Andreea Munteanu
(Oracle)

Andreea is a member of the APEX Development Team at Oracle. She started as an Oracle Database developer in 2014 and extended her area of interest to Oracle Application Express and several data integration solutions.

Andreea was involved in a wide range of projects, helping customers get the most out of their Oracle Database both in the cloud and on-premises using the latest data management solutions and collaborating with international project teams.

MARCH 31 - 10:40-11:30



Play against vulnerability with APEX

Do you know that half of the cyber-attacks are never detected?

Can you tell if your APEX application is secured? We CAN!

Do you know why? Because we included in the development lifecycle a process to check vulnerabilities and verify the security of our APEX application. This process can and should be included into your development process as well.

In this session we'll discuss the type of security risks an APEX application can expose, and how our team is doing the evaluation of these risks.

You will find out about the free tools, paid tools and do-it-yourself tools you can use to verify the vulnerability of the system during the development process or gather information on a running system to identify intruders.

The session is inspired by security-check processes we are using in a few projects. It covers technical details as well as project planning, and it is addressed to developers, team leaders, and project managers.



Mirela Ardelean
(Equip GmbH)

Mirela started working with Oracle Technologies back in 2000, as a PL/SQL and Oracle Forms&Reports developer. Then, in 2008, Mirela met APEX. Since then, she is an APEX enthusiasts who has some nostalgies for Oracle Forms. Mirela is very much involved in Oracle User Groups communities, trying to build a strong collaboration between OUGs. Mirela is the co-founder of the Romanian Oracle User Group (RoOUG), being the Vice President of RoOUG since the beginning. She is a board member of the EOUC, a membership organization comprising a significant number of EMEA User Groups. She is instrumental in arranging multiple ACE and Oracle Community tours, in Romania and also around EMEA.

In 2021 she initiate the Mentor and Speaker Hub Program #mashprogram. Mirela is an Oracle ACE Pro, the first person from Romania accepted in Oracle ACE Program.

A(bsolutely) I(nsane) : Using ChatGPT to build an APEX application



Luc Bors
(BOHORT)

Luc Bors is an Oracle ACE Director specialised in various Oracle technologies amongst others Oracle JET and Oracle Digital Assistant. He has many years of experience as a Principal Consultant, Architect, and Trainer. Luc regularly writes articles for international magazines, websites, and his personal blog, and he is author of Oracle Mobile Application Framework published by Oracle Press in 2014 and Oracle Digital Assistant: A Guide to Enterprise-Grade Chatbots published by Apress in 2020.

Luc is a frequent presenter at international conferences such as ODTUG Kscope, Oracle OpenWorld, Oracle Code and UKOUG Tech.

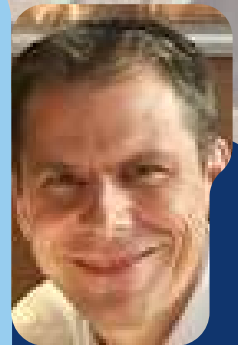
ChatGPT was introduced late 2022. ChatGPT is a chatbot developed by OpenAI based on GPT-3.5. It has a remarkable ability to interact in conversational dialogue form and provide responses that can appear surprisingly human. ChatGPT can write stories, books, play chess and it even can enter a political debate using arguments gathered from a wide range of resources. What I have seen so far is indeed A(bsolutely) I(nsane). For a long time I invested in building up knowledge around AI, chatbots and application development. But what if this is all a waste of time? What if ChatGPT is really that smart and it can actually write code? What if it can actually develop an application, or even an APEX application? Let's give it a try. Can ChatGPT do the unexpected? You will find out what is possible during this session.

Integration of External Libraries Froala and PDF Editor

APEX standard comes with many different components, but what if you want more?

We will look into two examples of external libraries and how you can include them in APEX; either by using standard JavaScript integration or through a plugin.

1. Instead of using the CK Editor, you can include the Froala Rich Text Editor which is seen as one of the best editors in the world.
2. Another much-requested feature is a PDF Viewer and Editor. This is not natively in APEX, so we will look into integrating one which has some cool features for end-users to annotate the PDF, and stamp it and even a measuring tool is included.



Dimitri Gielis
(United Codes)

Dimitri Gielis is the founder and CEO of United Codes, a company specializing in Oracle Application Express. He's also the founder of APEX Office Print (AOP), APEX Media Extension (AME), APEX Project Eye (APE) and Plug-ins Pro. Dimitri is a frequent presenter at all the major Oracle conferences, an Oracle ACE Director, and received several awards among Oracle APEX Developer of the Year.

MARCH 31 - 11:40-12:30



The power of classic report. Interesting solutions which can compete even with IR or IG.

I would like to show the most significant benefits of using Classic Report in the Oracle APEX framework and ensure developers that this report can do the most of Oracle APEX Developer's work. Choosing a proper template will allow me to create things like a chat or a to-do list. I will use the Facet search component based on Classic Report to show that it can take the place of Interactive Report with a built-in filtering mechanism. The Classic Report can be editable like Interactive Grid. Therefore, I will use the APEX_ITEM package to create form elements dynamically based on a SQL query, and AJAX calls to actualize and retrieve data from the server. In my presentation, I will not forget about plug-ins that enhance the Classic Report. As a good example, I will present how we can freeze header and columns by the plugin with Pretius Low Code I was developing - i.e., Pretius Extend Classic Report.

After my session, you will gain knowledge about:
customizing Classic Report
working with report templates
facet search - great native component
basics of the APEX_ITEM package

I hope to convince the audience that the Classic Report should always be considered the leading solution for daily Oracle APEX Developer tasks.



Bartosz Sypuła
(Pretius low-code)

I am an Oracle APEX Developer with five years of experience. I worked on projects connected with the freight forwarding industry and tobacco industry. I also can develop internal systems of Pretius company, e.g. recruitment portal for new employees made of course in APEX. Creating plugins and exploring new features in Oracle APEX are the things which I like the most in my work. I am interested in sports, especially football and volleyball. During my free time, I love to go hiking in mountains with my family.

Power to the PWA!



Kevin Thyssen
(United Codes)

I'm a senior Oracle APEX consultant at United Codes with more than 10 years experience. During these years I've worked on several large projects in chemical, pharmaceutical and financial industries, as well as the public sector. Furthermore, I'm always enthusiastic about new technologies. Cycling is one of my passions and I'm always in the mood for an outdoor adventure!

Progressive Web Applications - or PWA's - are becoming increasingly popular. With the latest releases of APEX, more and more PWA options have been added to enhance the app-like experience. Who doesn't want to take advantage of these great features?

In this session, I will explain key concepts - such as Feature Detection and Service Worker - and show you how to create an application using Universal Theme components. We'll also leverage Web Services and add interactivity by integrating Push Notifications.

During this session, I will build a small real-world application using Universal Theme components. I'll go more into detail about PWA features, such as Feature Detection, Persistent Authentication and Service Worker, which will be customised to support Push Notifications. Processing JSON data will also play an important role as the application will be getting and sending data through Web Services.

APEX Page Items in detail

With APEX 22.2 we have over 25 page items and but many people only focusing only on a few items. Functionality like them trim in text fields, which is working due rendering, on client-side and on submit has changed over the years. In this presentation we will take a look into the different page items and their settings. How do they work and what does it mean to switch from a legacy datepicker into the newest APEX own-built datepicker.

Working with LOV's, supporting multiple columns or with an autocomplete textfield which only supports a single column, which is needed for display and return.

It doesn't matter if you are new to APEX or you are using APEX over years. Everyone will get some interesting facts he is not aware of and you might be able to remove some plugins afterwards.



Oliver Lemm
(MT AG)

Business Unit Leader APEX @ MT AG. Working since 2007 with APEX, Oracle Database and Portal technologies from Oracle. Working as an Architect, Coach, Project Leader or Developer. Presenting on conferences like DOAG, KScope, IT-Tage, APEX World at more.

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MARCH 31 - 13:30-14:20



**HANDSON
SESSION**

PWAPEX - Goin' Mobile

APEX provides several features and components to create applications optimized for usage on smartphones. This hands-on workshop will introduce you to those features by creating a simple mobile application from scratch, step by step. Subjects that will be covered are navigation, appearance, branding, sharing and installation (PWA). All you need to do is to register and bring your own laptop (and smartphone, of course).

ideally: you have your own Oracle Cloud account with an (always-free) Autonomous Database



Christian Rokitta
(Oracle)

Christian is member of the Oracle Development team since 2021. Before that, he has been building applications as an Oracle Database and APEX developer in different roles for about 30 years.



**Bring your
own laptop**

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About the menu (a la carte or from the menu?)

APEX by default uses the "Navigation Menu", the "Navigation Bar" and "Breadcrumbs". However these options are not necessarily the most convenient when having to put the application in different environments. Since all mentioned menus are lists we have options to our disposal to change the menu behaviour significantly, without losing any built-in functionality.

The session proposes ways in which you can have more in control on what happens in your menu and when. Special attention will go to authorisation of menu-items using SQL, PL/SQL and the APEX built-in authorisation mechanism.



Richard Martens
(Smart4Solutions)

Richard Martens has been involved in information technology for more than 20 years. He started as a web developer using the Oracle database as no more than data storage. Richard has been responsible for major European multilingual websites and has been working with the Oracle database since 2000. During those years, he developed himself using a multitude of technologies and specialized in PL/SQL and Oracle APEX. With APEX, he combines the things he loves most: the Oracle database and web technologies.

Offline data manipulations in APEX for everyone with Plug-Ins and SQLite

A few years ago, APEX was only usable on big screens. Thanks to Universal Theme and optimized Components we can now offer mobile users a great experience. With the introduction of PWAs into APEX, the next challenge is to allow users to read and manipulate data on the go, even if there is no internet connection available.

Out of the box, the APEX PWA feature unfortunately only make static content work properly offline. There are some approaches to allow data modifications while offline and sync them later. These rely on custom code and heavy modifications and therefore differ from APEX's Low Code approach.

In this talk, I want to demonstrate a Low Code approach with Open-Source Plug-Ins that only need minor configuration to make an app offline capable. Additionally, I would like to discuss design decisions like why I think an offline-first approach makes sense and how the client stores the data. I will also go into technical backgrounds like why SQLite is suitable for this task, how to handle conflicting changes and how scalability is achieved.



Philipp Hartenfeller
(MT AG)
Oracle APEX Dev from Germany with a passion for the web.

A secure logon process: social sign-in or multi factor authentication

Username and password are generally no longer accepted as sufficient for authentication. So for our APEX applications we need to do a little extra. APEX already provides us with the possibility to use social sign-in, with Google and Facebook as out-of-the-box solutions. In this session we will demonstrate some other possibilities, like Jira or LinkedIn. If we still need to use a username/password scheme, we could add multi factor authentication, using an authenticator app on a mobile device. We will demonstrate how to incorporate this in our APEX application.



André van der Put
(Open-Fine)

André van der Put has been working with Oracle technology since 1997. The last 12 years his main focus is on Application Express. Currently he is employed by Open-Fine, where he is building and maintaining APEX applications for various clients.

Holy Grid

The Interactive Grid is nowadays a well established and often used component within APEX. Still, it sometimes feels like trying to learn black magic. Many settings can be set in a declarative manner, but there are others only accessible using JavaScript code. How does this work and what is a good approach? Another question I've been asking myself: Why do we have model and view separated and what does this mean for me as a developer? Let us take a closer look at the inner workings using examples from real world projects and requirements. We'll take a thorough dive into the iGrid, it's architecture and JavaScript-APIs. Just like: Discover the possibilities.



Moritz Klein
(MT AG)

Moritz Klein has been working with Oracle technology since early 2001. Moritz shares his knowledge through his blog, on Twitter and by speaking at national and international conferences like the DOAG Annual Conference, APEX Connect, APEX World and Kscope. After 6 years working for Ericsson as Data Warehouse Specialist, he's now with MT AG as Principal Consultant for APEX. His main areas are Data Modeling, PL/SQL and Oracle APEX. Nowadays he's also adding JavaScript and DevOps to the mix.

APEX New Features: An honest review from a non-APEX team perspective

The recent releases of APEX have an abundance of new exciting features such as :

- Approvals + Unified Task Lists
- JSON/YAML Application Exports
- Improved Row Search
- Easy Region Sorting
- Faceted Search Enhancements
- Data Generator
- .. plus much more



Matt Mulvaney
(Pretius Low-Code)

With around 20 years on the job, Matt is one of the most experienced software developers at Pretius. He likes meeting new people, travelling to conferences, and working on different projects. He's also a big sports fan (regularly watches Leeds United, Formula One, and boxing), and not just as a spectator – he often starts his days on a mountain bike, to tune his mind.

Oracle Autonomous Databases for APEX Developer

With Oracle Autonomous Databases, a pre-configured, fully managed and secured environment will soon be available, enabling developers to quickly and easily develop low-code apps with APEX. But it is not only the option to develop APEX apps that is now available. Many other exciting and interesting options are available. Learn in a practical lecture how, for example, a load balancer can be used to provide a custom domain name (vanity URL) for an application. Or set up your own custom ORDS server to configure it according to your own requirements. How can a public IP address be reserved and how should your server be protected against DDoS attacks?

Once all the configurations have been made, an ADB can be cloned in no time at all. Whether in the cloud console or via an existing REST API is up to you. And should the database storage be full, you will learn how you can easily increase it or store data in the object store and access it from your application. Take away from the lecture how you can get more out of Oracle APEX in combination with your Oracle Autonomous Databases and be inspired by the possibilities.



Timo Herwix
(MT GmbH)

Timo Herwix joined MT GmbH in Ratingen (Germany) as a Senior Consultant in 2019. In his day-to-day business, Timo works closely with Oracle databases and the development of Oracle APEX applications. Before starting at MT GmbH, Timo worked as a Data Warehouse Specialist where he gained experience as a Database Administrator, performance tuning and a lot of SQL development. Besides developing business logic in PL/SQL, modeling the data structure foundation and building APEX pages, Timo is generally interested in web development and the architecture behind it. Timo regularly gives talks at conferences and likes to "publish" what he learns in the form of blog posts. In his leisure time, he enjoys traveling, spending time with his family and cooking a wide variety of meals.

MARCH 31

KEYNOTE 16:00 - 17:00



The evolution of templates

In APEX 23.1, we are introducing two new game-changing features for templates. To understand which problem they solve, we will take a step back and talk a bit about the evolution of templates.

Templates used to be simple and only supported substitutions. Added features over the years are: escape mode modifiers, quote syntax, and text message substitution. A significant change in APEX 20.2 was the introduction of Template Directives. These "special" tokens in a template control how the text around it is processed.

APEX 23.1 takes Template Directives to the next level. Learn all about Dynamic Templates and Template Reports in this session.



Menno Hoogendijk
(Oracle)

Menno Hoogendijk joined Oracle as a member of the Oracle APEX Development Team in 2019. His work includes Native Report Printing and Enhanced Templates. Researching, learning each day. Presenting at APEX conferences drives him. Menno lives in the Netherlands and you can follow @mennooo on Twitter.



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