Intro to Oracle APEX 4.2 and JQuery

If you have an Oracle database you already have APEX... it's included and FREE!

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Tony Jedlinski

- President Konoso LLC
- Vice President MOUG
- Former Executive VP, Director Web Content and Initiatives IOUG
- Recognized by Oracle Magazine as a leading expert in Oracle Application Express (ApEx) development (named HTML-DB Developer of the year 2005).
- Published ApEx author (Oracle Magazine May / Jun 2006), (IOUG SELECT Journal Q4 2005).
- ApEx presenter (Oracle World 2004, 2006, 7), (IOUG Live! 2004, 5), (Collaborate 2006, 7, 8, 9, 10, 11).
- More than 20 of years experience as an Oracle systems architect / developer, and 30 years of experience in system analysis and development.

What is APEX (Application Express)

- Roots in Web DB
- Formerly HTML DB
- PL/SQL Package
- Included at no charge with every Oracle database
- Fully supported by Oracle
- Rapid Application Development (RAD)
- APEX is written in APEX!
- Declarative development environment
- No PL/SQL or HTML knowledge required (but if you understand these you can extend APEX)

What can you do with APEX

- Quickly and easily build data intensive websites
- Can be secure or public
- Used extensively at Oracle Corporate
- Can be used simultaneously by two to twenty thousand users
- Easy to add functionality to packaged applications
- Can be extended with third-party plug-ins or custom Javascript

APEX.ORACLE.COM

ORACLE.



Use apex.oracle.com to develop database centric web applications with Oracle Application Express. If you have a workspace, click the <u>login</u> button, otherwise, click the <u>sign up</u> button to request a new workspace.

Oracle provides **apex.oracle.com** as an evaluation service free of charge. Oracle Application Express is a no-cost option of the Oracle database. The latest version of Oracle Application Express can be <u>downloaded from OTN</u>.

What's I	New in 4	.1
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Error Handling Use of ROWID

Data Upload

Calendar

Tabular Forms

Accessibility

More ...

Getting Started

Learn More about Application Express Application Express Documentation

Podcasts and Viewlets
Oracle by Examples (OBE)

Oracle Magazine Articles

Online Resources

Application Express on OTN Application Express Plug-Ins Learn about Interactive Reports

Configure PDF Printing Packaged Applications

Community

OTN Discussion Forum

Blogs

Consulting Services

Commercial Applications

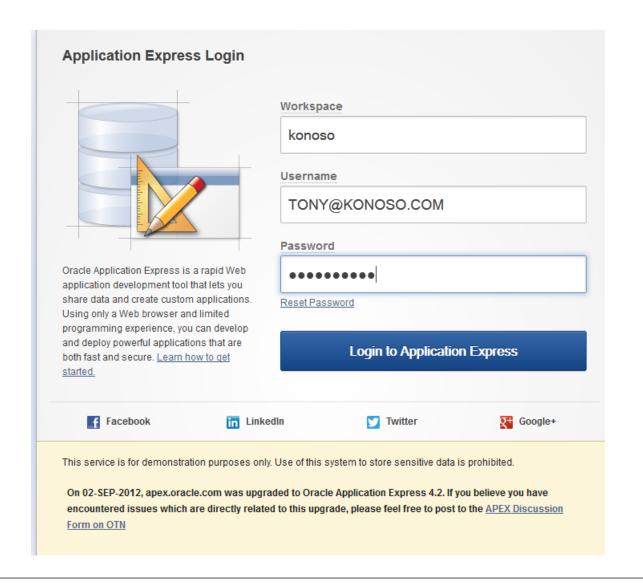
Public Websites

Hosting Companies
More ...

What's available apex.oracle.com

- Documentation
- Podcasts and Viewlets
- Samples and Demos
- OTN Discussion Forum
- Blogs
- Sandbox environment

Sandbox environment



Developer Console



Application Builder



SQL Workshop

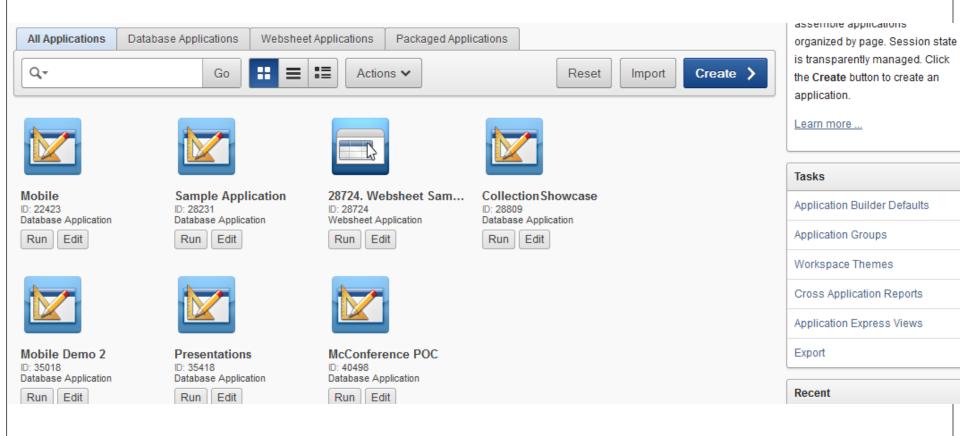


Team Development



Administration

Application Builder



SQL Workshop

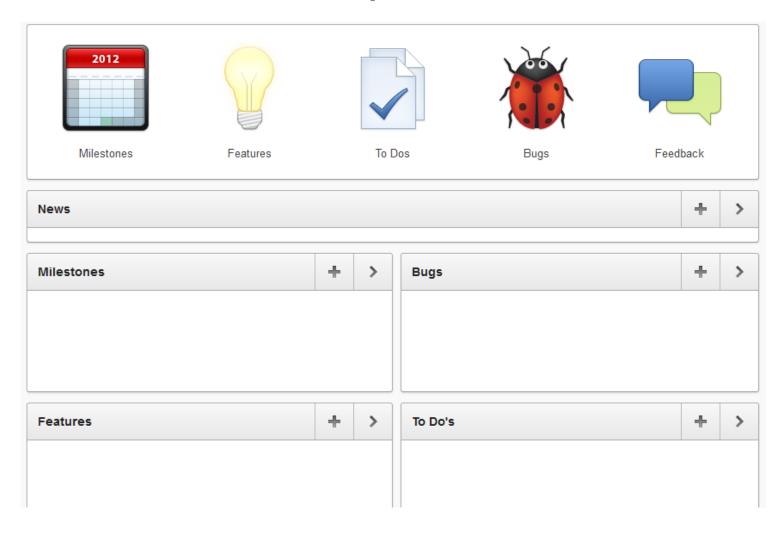


1 years ago
1 years ago
1 years ago
1.3 years ago

Recent SQL Commands

No SQL commands found

Team Development



Administration







Manage Users and Groups



Monitor Activity



Dashboards



Utilization Report



Service	
Workspace Name	KONOSO
Database Applications	6
Websheet Applications	1
Packaged Applications	0
SQL Scripts	10
Schemas	1
Open Requests	0

Users	
Users	2
Workspace Administrators	1
Application Developers	1
End Users	1
Created Last 24 Hours	0
Created Last Week	0

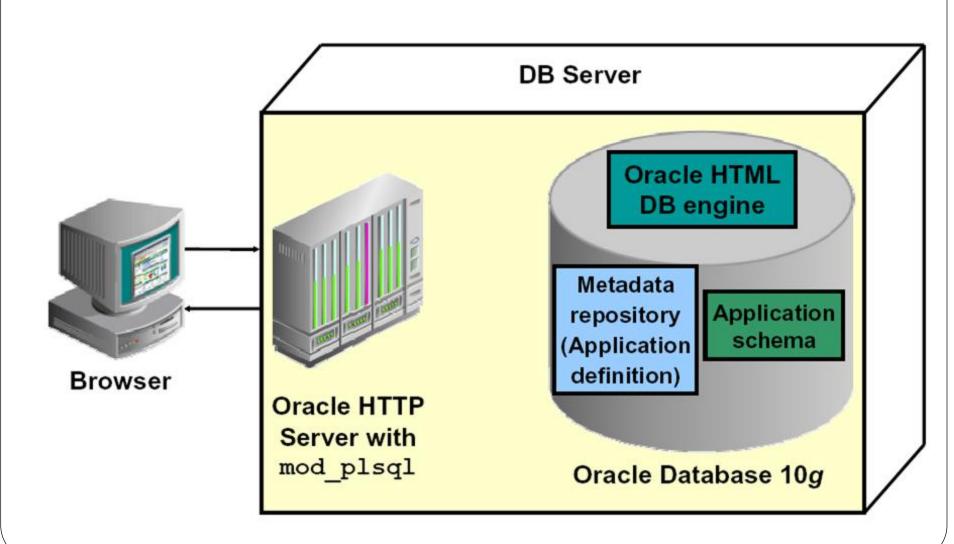
Activity	
Reporting Timeframe	3 hours
Page Events	19
Median Page Time	0.09
Distinct Applications	5
Distinct Users	2
Distinct Sessions	3
Errors	1

your account. Depending on your privileges you can monitor and administer this workspace.

Learn More ...

Tasks
Change My Password
About Application Express
Manage User Groups
Create User
Create Multiple Users
Delete Multiple Users
Manage Interactive Report Settings
Manage Export Repository
Websheet Database Objects

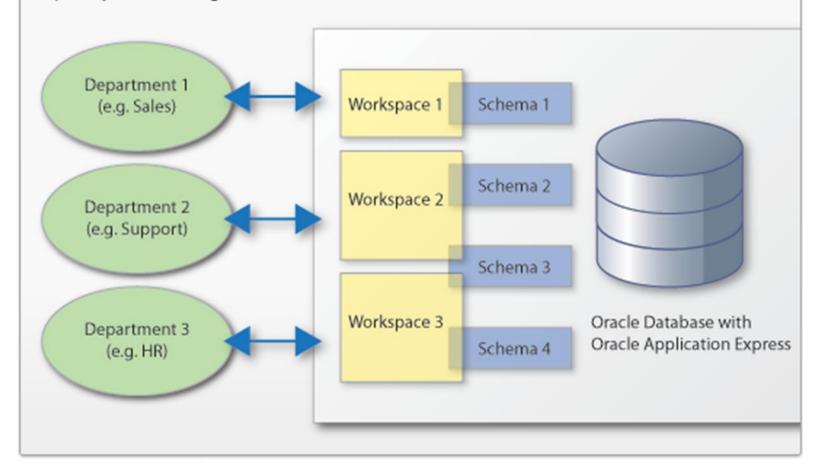
APEX Architecture



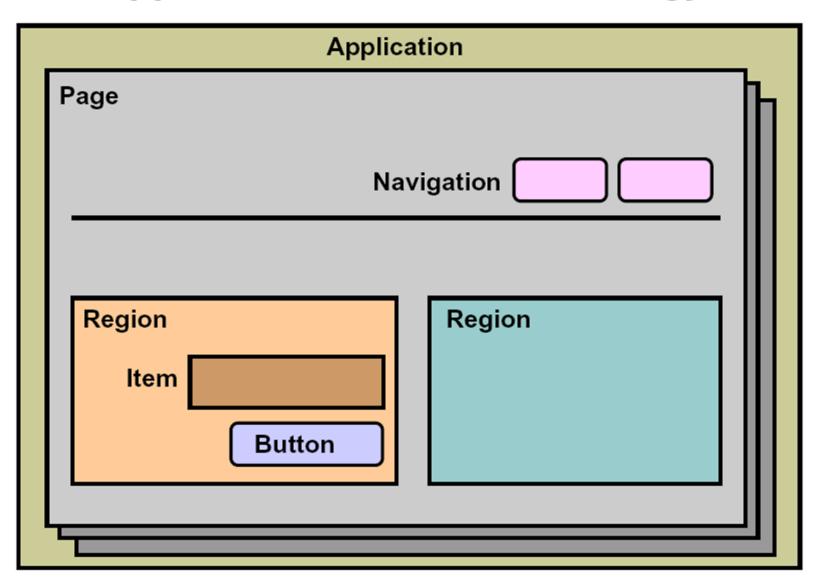
Multi Tenant



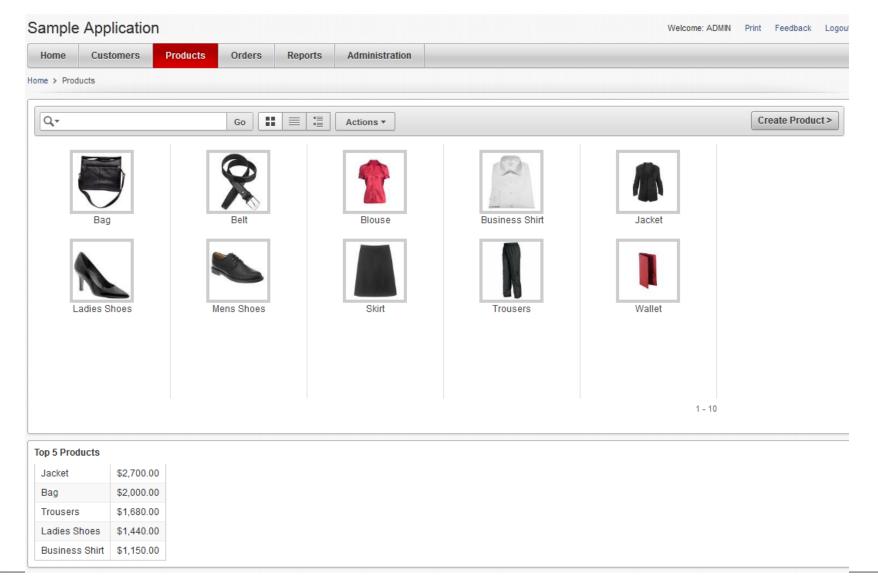
Oracle Application Express enables a single database to host large numbers of applications and users. Developers work in a dedicated work area called a workspace to develop applications against one or more schemas. This flexible architecture enables a single database instance to act as a "Platform as a Service" (PaaS), providing a hosted Intranet capability within the organization.



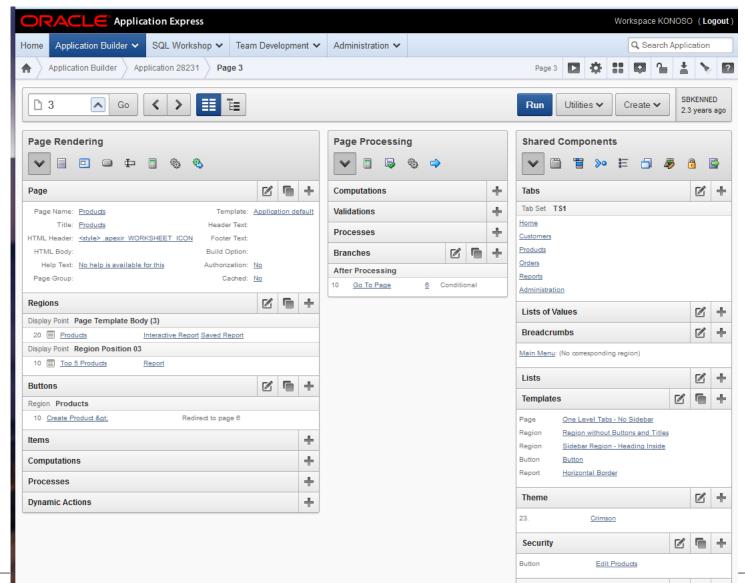
Application Builder Terminology



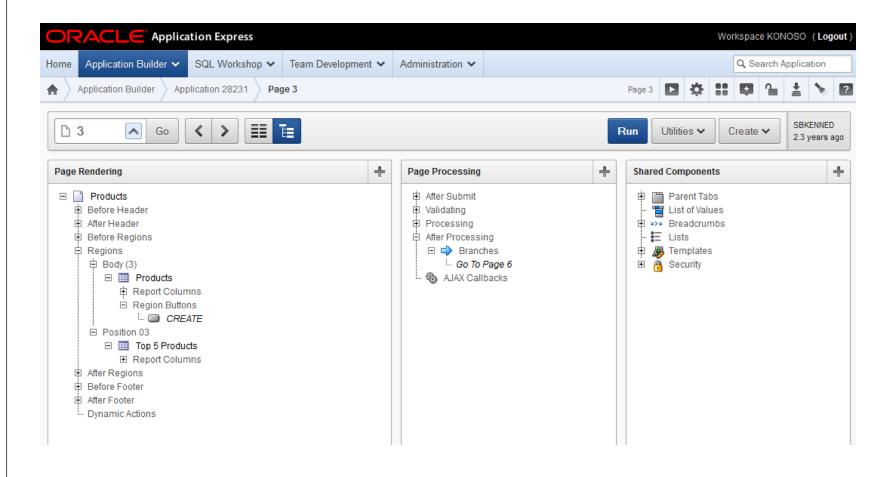
Typical Page



Same Page Developer View



Alternative (tree) View



Live Demonstration

APEX Themes







Slate (Theme 12)

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Classic Blue (Theme 13)



Simple Green (Theme 14) *



Light Blue (Theme 15) *



Dark Blue (Theme 16) *



Sapphire (Theme 17)



Simplified Gray (Theme 18) *



Red Gray (Theme 19) *

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Traditional Blue (Theme 20) *



Scarlet (Theme 21)



Bluejay (Theme 22)



Uniframe (Theme 23)



Cloudy (Theme 24)



Blue Responsive (Theme 25)



Productivity Applications (Theme 26)



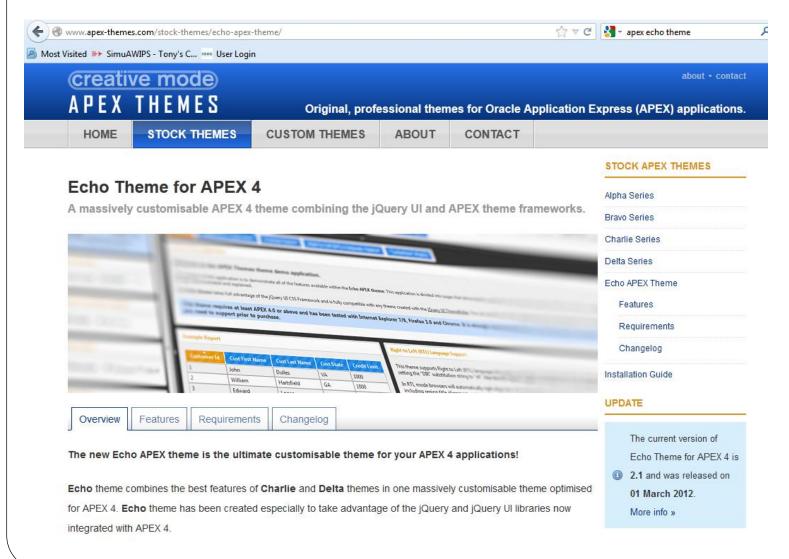
Extend this concept using JQuery





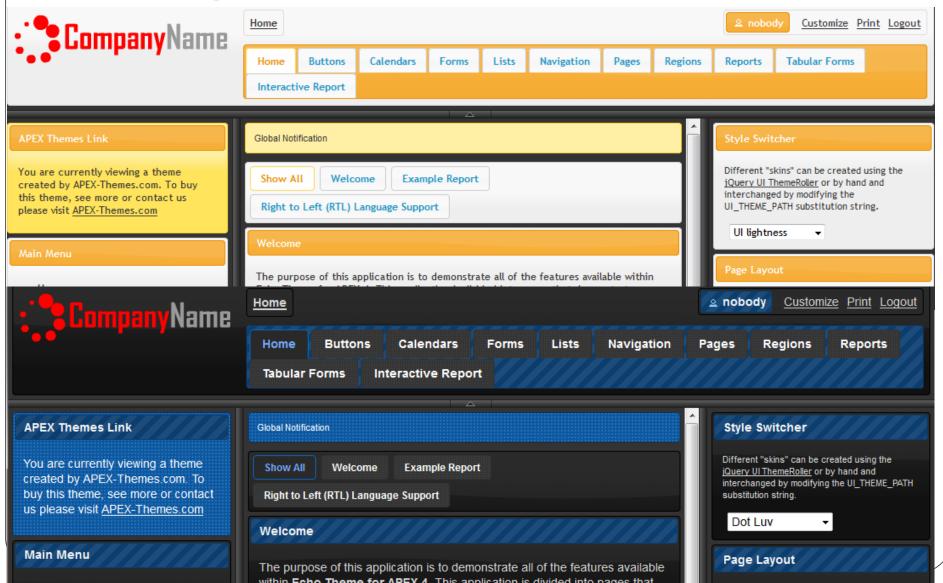


Echo Theme (from www.apex-themes.com)



License fee about \$200 for unlimited deployment by a single developer

Users can select their own theme and change themes in real time.



Live Demonstration

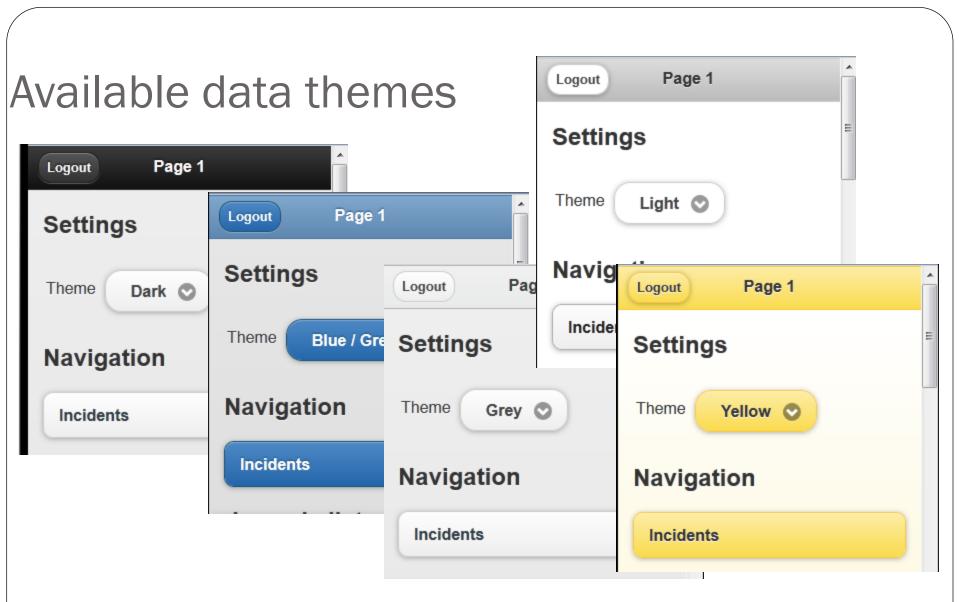
Jquery Mobile

- Keep it simple APEX as the development platform
- Avoid duplicate effort Develop one application for as many different devices as possible
- Provide an intuitive user experience Although they are web based, apps should look and feel like they are native to the mobile device.
- Make it fun Incorporate charts and graphics
- Allow user customization End user should be able to select "skins

Standard vs jQuery Mobile Which would you prefer to use?







Dark = a, Blue/Grey = b, Grey = c, Light = d, Yellow = e



I wish to acknowledge Peter Raganitsch who first posted this technique on his blog.

The original posting can be found at:

http://www.oracle-and-apex.com/create-a-mobile-theme-for-oracle-apex/

He did a webinar on this topic which can be downloaded at:

http://click-apex.at/Downloads/APEX%20for%20Mobile%20Development%20-%20Peter%20Raganitsch%20-%20redGate.pdf

Using jQuery Mobile within APEX

- Update a Page Template by replacing the
 - Header
 - Body
 - Footer
 - Navigation Bar Entry
- Create a NEW Region Template
- Create a NEW List Template
- Create Report Template(s) using Named Columns
- Add Data Theme selector (optional)

Live Demonstration

Demonstration

Try it yourself at:

http://mobiledemo.konoso.biz

Download this presentation at:

http://www.konoso.com/mobileapex.pdf

Contact me

tony@konoso.com

