APEX 4

Oracle Application Express 4.0

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S KILL BUILDER S

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Oracle Application Express Momentum

- Developer community 100k+ downloads / year
- apex.oracle.com 4m page views / week
- Active Discussion Forum 4.6 m views, #3 on OTN
- 100 Consulting companies, 60 BLOGs, 10 Hosting Partners
- User Groups: 30 @OOW-09, 50 @ODTUG, APEXposed
- User interface for Oracle Audit Vault







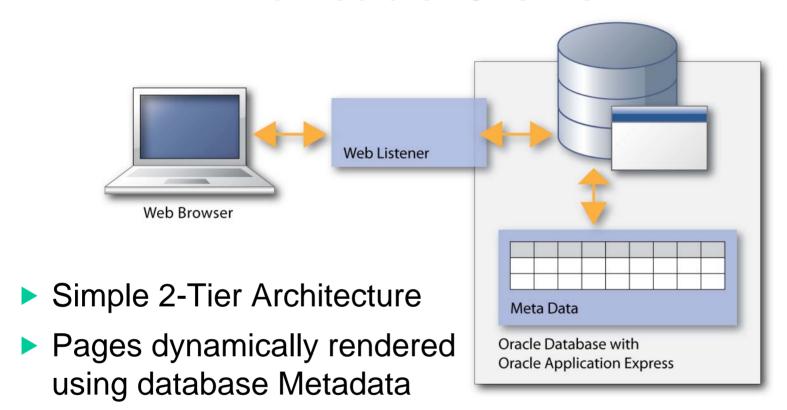








Architectural Overview



- ▶ No code generation or file based compilation
- Runs Everywhere Oracle Database Runs



Development / Deployment Options

- Locally as a Dedicated Service
- Multi-tenant Enterprise Cloud
- Multi-Tenant Internet Cloud
- Within Amazon cloud







Develop & deploy where it is most convenient and cost effective

APEX 4.0 Marquee Features

- Websheets
- Dynamic Actions
- Plug-Ins
- Team Development
- Improved Charting including Gantts and Maps
- RESTful Web Services
- Enhanced Interactive Reports
- Improved Application Builder
- APEX Listener



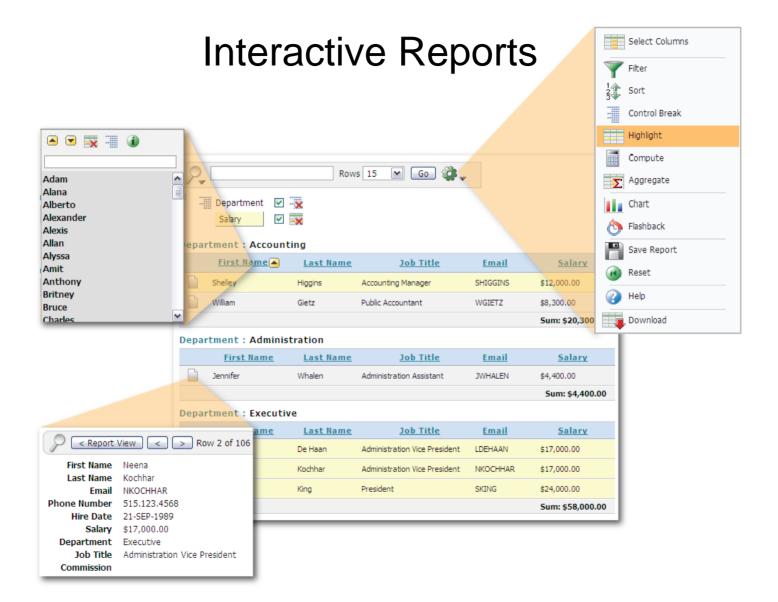




APEX 4.0 Other Major Features

- Modernized User Interface themes
- Improved Tabular Forms (new item types, declarative validations)
- Sub-regions
- Modernized item types (auto complete, resizable textarea, JavaScript date picker, number field, new rich-text editor)
- Declarative support for cascading LOVs
- Improved UI Defaults with bi-directional synchronization
- Integration of jQuery and jQuery UI
- Declarative accessibility settings
- Instrumentation and Debug framework
- Support for 11gR2 Edition Based Redefinition
- Improved self managing, multi-tenant support
 - Automated workspace purge
 - Improved metering of usage by workspace with archiving



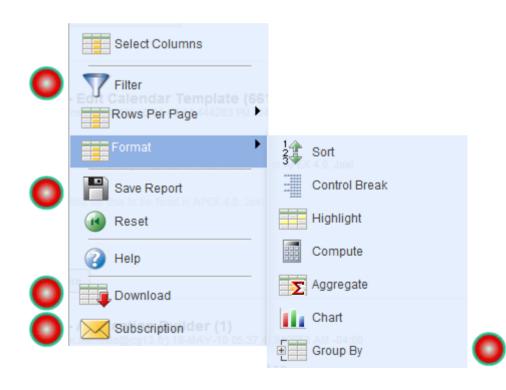






Improved Interactive Reports

- Integrated Report, Icon & Detail Views
- Compound filter expressions
- Group By
- Saved Reports
 - Developer Supplied (Primary / Alternate)
 - Personal {Existing}
 - Shared
- Additional Downloads
 - Searchable HTML
 - Email Report Results
- Email Subscriptions





Introducing Websheets

- Build basic applications faster and with more functionality
 - Websheet Applications
 - Text Pages
 - Editable data grids
- Interactive Reports
- Designed for Business Users
- Incorporates "sharing" model (ACL)
- "Builder" integrated with "Runtime"
- Integrated annotations attachments, tags, notes, links





Websheets vs Database Applications

	Websheet Applications	Database Applications
Database Objects	Automatically managed (APEX\$ tables)	Created using SQL Workshop
Primary Key Management	Automatically managed	Triggers and sequences
Validations	Defined using runtime UI	Created using wizards
Report Layout	Defined using runtime UI	Created using SQL
List of Values	Defined using runtime UI	SQL or Static
Page Flow	Limited	Controlled by branches
Form Layout	Column groups	Items and regions
Look and Feel	Basic control	Themes and templates



Dynamic Actions

- Provides a way to define client-side behavior declaratively within Application Express, without the need to know JavaScript
- Simple Wizard to create
 - Select Page Item
 - Select Condition (e.g. equal to, greater than, is null, in list, JavaScript expression, etc.)
 - Enter value
 - Select Action (Show, Hide, Enable, Show Item Row)
 - Enter list of items
 - Add Condition (Optional)





Plug-Ins

- Easy way to enhance the existing built-in functionality of Oracle APEX with new item types, region types, dynamic actions, etc.
- Developers use in similar fashion to native widgets
- Wizard support and declarative setting of attributes
- Included in APEX application export
- By providing this plug-in system in APEX, we want to engage the APEX community to create a rich ecosystem around Oracle APEX



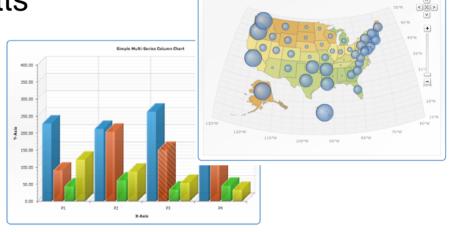


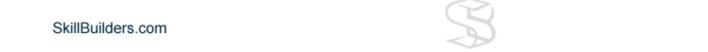


Improved Charting

- New charting engine (AnyChart 5.1) = faster, better graphics and decreased rendering time
- Support for Maps & Gantts
- New Features:
 - Scrolling support
 - Interactive labels
 - Markers in legends
 - Multiple data markers
 - Context menu localization





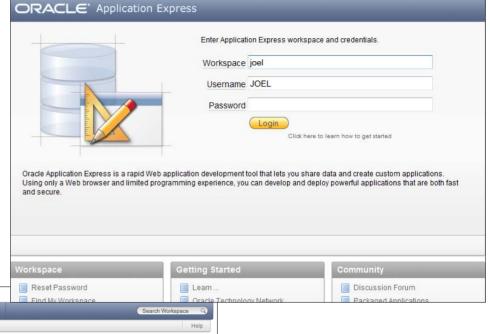




Improved Application Builder

- New look
- Improved navigation
- Improved Administration screens
- IR's everywhere
- Integrated 'Advisor' and 'Application Search'



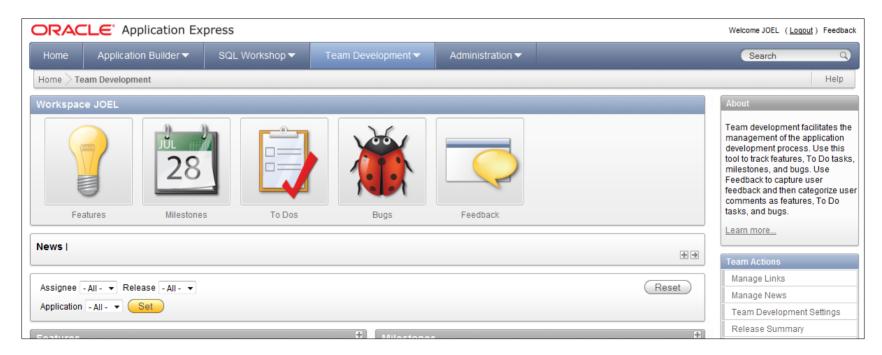






Team Development

- Facilitates the management of Sotware application development process
- Can link directly to APEX Applications and Pages

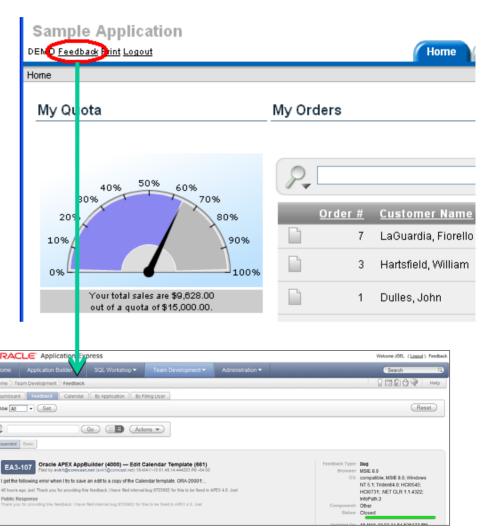






Team Development - Built-In Feedback

- Integrate into your APEX Applications
- Automatically saves session state
- Feedback managed in Team Development
- Easily transformed into Features, To-Dos or Bugs







REST Web Services

- Incorporating new declarative APEX component
- Utilizes a simpler architecture than SOAP style Web services
- Typically parameters are passed to a REST Web service as part of the URL and an XML document is returned
- Many popular public Web services provided by Google, Yahoo, Amazon and PayPal use the REST architecture
- Some Web Service providers use the REST architecture exclusively











Oracle APEX Listener Java based mod_plsql replacement Support latest APEX releases File system caching * FOP transformations to PDF * Improved file upload * To be certified against Oracle Web Browser Web Browser Web Logic, and OC4J Extensible Workload Capture * Connector **APEX Listener** Mod_jk AJP Oracle Database with Apache, IAS or similar Web Server **Oracle Application Express** J2EE Container JVM * Requires APEX 4.0 Firewall

APEX 4.0 Summary

- Continues the APEX Vision
- Express-ier
- Declarative Web 2.0 Magic
- Greater Extensibility









Thank You

- Don't miss Kaleidoscope June 27th July 1st!
- SkillBuilders Oracle Application Express Training
 - Onsite or Online
 - Mentoring Services
- Oracle Application Express Consulting Services
 - Micro to long-term onsite
 - Full life-cycle application development, training, mentoring
 - Oracle Forms to APEX conversion

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