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Adding Web 2.0 and Mobile UI to Existing Applications

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Oracle Application Development Tools

Take Aways

- Learn how Oracle ADF helps you create rich Ajax enabled Web user interfaces
- Learn how the same skills extend to mobile application development.
- Learn how you can use Oracle ADF on top of EBS, Siebel, PeopleSoft or other existing applications.

Applications That Look Like This ...

ORACLE Expense Reports

Report Issue Global Policy Home Logout Preferences Personalize Page Diagnosics

EXPENSES

Expense's Home Expense Reports Credit Card Transactions Access Authorizations Projects and Tasks

Expenses Expense's Home Expenses Home

Expenses Home

Create Expense Report Report Spreadsheet Export Spreadsheet

Track Submitted Expense Reports

The following expense reports are either outstanding or have been paid in the last 30 days.

Report Number	Report Submit Date	Report Status	Last Report Status Activity (Days)	Current Approver	Receipts Status	Report Total (USD)	Purpose	Duplicate	Withdraw
		Pending System Administrator Action		8 Expenses Administrator		0.00	Client visit - Seatt...		
		Pending System Administrator Action		8 Expenses Administrator		0.00	Client visit - Seatt...		
No 18622	30-Sep-2005	Pending Manager Approval		1 Andretti, Mr. Evan	Not Required	287.67			
No 18662	27-Sep-2005	Pending Manager Approval		3 Andretti, Mr. Evan	Not Required	8.00	Test		
No 18663	27-Sep-2005	Pending Manager Approval		3 Andretti, Mr. Evan	Not Required	41.00			

If the status is Pending Your Resolution, you were sent a notification explaining the required action.

Update Expense Reports

Click an Update icon to make changes to a saved, rejected, or returned expense report.

Report Number	Report Date	Status	Report Total (USD)	Purpose	Update	Ex
No 18625	29-Sep-2005	Saved	108.00	Client visit - Seatt...		
No 18632	23-Sep-2005	Saved	100.00	Travel		

Notifications

View Open Notifications Go

Select Notifications: Open Reassign

Select all Refresh

Select System	Subject	Send
	From: Mr. Jamie Expense #11-5-18494 for From: Mr. Jamie (2,000 USD)	21-Sep-2005

TIP Vacation Rules - Redirect or auto-respond to notifications.
TIP Worklist Access - Specify which users can view and act upon your notifications.

Report Issue Global Policy Home Logout Preferences Personalize Page Diagnosics

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OracleApps Job Definition

OracleApps Job Name

Job Class Schedulers

Parent Group

OracleApps Schedule Run Dependencies Job Events Options Runback Notes

Concurrent Request Data

Concurrent Program Request Set

Application

Name

Parameters

Enabled

OK Cancel Help

... Could Look Like This.

This screenshot shows the Oracle HR system interface with a list of employee profiles. The profiles displayed are:

- Terry Lucca**, Sr Accounting Manager, Corporate Accounting. Contact information: terry.lucca@vision.com, 352 555 3895, 647 555 4924.
- Anna Pascal**, Accounting Manager, Corporate Accounting. Contact information: anna.pascal@vision.com, 863 555 2028, 612 555 5980.
- Stella Hahn**, Technical Writer, Corporate Accounting. Contact information: stella.hahn@vision.com, 709 555 1539, 732 555 5589.
- Jason Blake**, Accounting Manager, Corporate Accounting. Contact information: jason.blake@vision.com, 293 555 3282, 487 555 8025.

This screenshot shows the Oracle HR system interface with detailed information for Pat Miller. The details include:

- Person Gallery:** Tom Kinble, Steve Freeman, Chuck Swift, Denise Lee, Terry Lucca, Anna Pascal, Pat Miller.
- Contact Information:** E-Mail Address: pat.miller@vision.com; Work Phone: 976 555 2266; Home Phone: 827 555 3848; Mobile Phone: 114 555 7545; Chat: pat.miller@vision.com.
- Employment Details:** Hire Date: 15-Mar-2000; Worker Number: 8143152; Supervisor: Anna Pascal; Supervisor's E-mail: anna.pascal@vision.com; Assignment Number: 6143152; Office: San Francisco, CA; Working Hours: 42.5 / Week; Normal Start Time: 08:30; Normal Finish Time: 17:00.
- Salary History:** A bar chart comparing Pat Miller's salary to a comparison salary from 3/15/00 to 3/15/05. The chart shows a general upward trend in both, with the comparison salary reaching approximately 63K and Pat Miller's salary reaching approximately 54K by 3/15/05.
- Performance v. Potential:** A 2x2 matrix showing Pat Miller's performance (Exceeds) and potential (High).
- Suitability:** A radar chart showing Pat Miller's suitability across various dimensions: Leadership, Teamwork, Creativity, Customer Service, Communication, Measurement, and Motivation. Pat Miller's performance is generally high, particularly in Leadership and Teamwork.

... Or This

Project List

Name	Number	Overall Health	Project Status
Bear 5: Financials Implementation	ABC	🔴	Active
T&E Monitor Inc. Upgrade	TH101	🟡	Active
CRM Implementation for H&A	CRM	🟢	Active
Search Sites Financials Upgrade	SS-01	🟢	Active
Support HR Implementation	Support HR-01	🟢	Active
Microsoft Exchange Provisioning	E3-02	🟢	Active
Little Grants Billing Optimization	LG-01	🟢	Active
Manville Walker Inc. Proof of Concept	MW-01	🟢	Active
Credit Performance Data Warehouse	CP101	🟢	Active
AR Dossan Shared Project	DH-1	🟢	Approved
ony Stone Global Testing	Global Solution	🟢	Active

Project Comparison: Nonbillable Cost

Key Performance Area History

Notes

Amy Marlin 25-Jan-2008
We are missing timecards in the system, which is the reason for this exception.

Amy Marlin 16-Nov-2007
First 2 weeks of project progress on track.

Amy Marlin 03-Dec-2007
Project cost on target, but I am worried when the hardware costs will come through AP.

Amy Marlin 18-Dec-2007
Began the development phase without any problem. Costs continue to be less than budgeted because we used less.

Amy Marlin 03-Jan-2008
Still waiting for the hardware costs to hit. Development tasks still on track for completion by end of January.

Project CRM Implementation for H&A (CRM)
Key Performance Area Analysis

Overall Health: 🟡 KPI Generation Date: Jan 15, 2008 5:37 PM

Financial Score: 60

Important Dates **Data Updates**

Project CRM Implementation for H&A (CRM-1)
Performance data may be impacted due to reasons below:

- New transactions exist** against your project which are not reflected in project performance reporting. [View Unprocessed Data](#)
- Missing Timecards (3)** [View New Transactions](#)
- Unprocessed Transactions (4)** [View Unprocessed Transactions](#) [Pending Transactions \(3\)](#) [Errored Transactions \(3\)](#)
- Unrecognized Revenue** [View Unrecognized Revenue](#)

Key Performance Indicator Watchlist

Key Performance Indicator Name	Status	Current KPI	Value	Target
Inception To Date Nonbillable Cost %	🔴	32.86	32.86	30.00
Inception To Date Margin % Variance	🟢	-18.85	-18.85	-19.00
Period To Date Margin %	🟢	21,656.2	20,659.2	-5003
Cost Performance Index (CPI)	🟢	0.601	0.445	0.16

Revenue Transactions exist against your project which are not reflected in Project Performance Reporting

Inception To Date Nonbillable Cost % of Total Cost: Details

Key Performance Indicator History

Notes

Amy Marlin 19-Jan-2008
Certain invoices are **non-billable** because customer didn't agree to them in statement of work.

Amy Marlin 26-Jan-2008
Customer has agreed to get billed FOR Video conferencing equipment.

... Or This

The collage displays several Oracle software components:

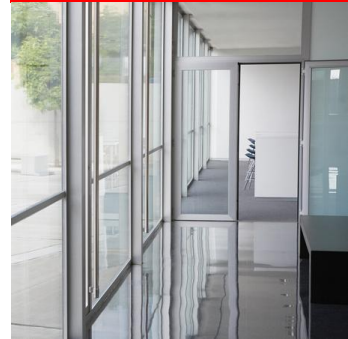
- Network Diagram:** A central hub labeled 'Peripherals' is connected to 'Computer Accessor...', 'Scanners', 'Storage', and 'Printers'.
- Navigation Application:** An Oracle navigation window showing a starting address (510 saint francis st, Redwood City), an ending address (200 Oracle pkwy, Redwood Shore), and a map with a highlighted route. Below the map, a 'Direction' table provides step-by-step instructions.
- Project Management Tool:** A window titled 'All Tasks' showing a list of tasks with columns for Name, Prio, Orig.Est, Curr.Est, Elapsed, Remain, and Resource(s). A Gantt chart on the right visualizes task progress over time from August 10, 2008, to August 24, 2008.
- Data Table:** A table showing sales data for 'All Channels' across 'World' and 'Boston' for the years 2005, 2006, and 2007, categorized by 'Tents' and 'Canoes'.
- Bar Chart:** A grouped bar chart showing data for three categories across three time periods.

Demo

Rich Internet Application UI

Agenda

- ADF Overview
- Integrating Oracle Applications
- ADF Mobile Browser
- ADF Mobile Framework



A Common Development Framework

Oracle Application Development Framework

- Increase productivity & ease-of-use
 - Visual and declarative development
 - Takes care of the “plumbing” code
 - Implements best practices
- Promote service oriented development
 - Re-usable business services
 - Composite applications development
- Standards-based
 - Java EE, SOA, SDO/SCA ...
- End-to-end coverage
 - MVC, security, customization

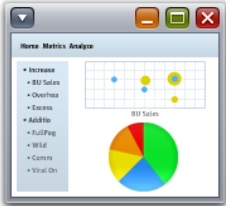


Oracle ADF - Major Benefits

- Faster and simpler standard-based development
- Rich interactive user interfaces without the cost
- Single set of developer skills
 - Mobile, BI, Geographic Information, Cubic data
- Common infrastructure
 - Declarative customization (company, department, personal, portal)
 - End-to-end security
 - Drag-and-drop binding
 - Reliable certification and support
 - Advanced Tooling
- Saves development time and costs through abstraction

Oracle ADF – Multi Channel Framework

Web



Desktop



Mobile



Office



Database



Web Services



Legacy Systems



Applications Unlimited

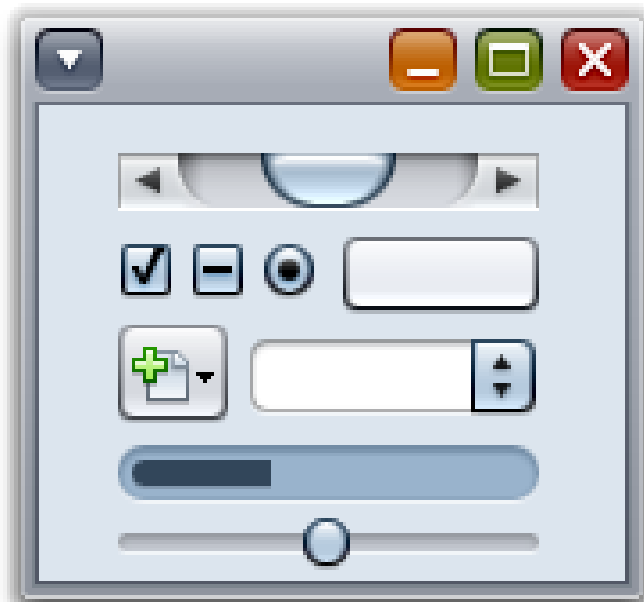
ADF Model - Data Binding

- Unified Binding Solution
- Service Oriented Interface
 - Abstract implementation from clients
 - Loose coupling between services and application
- More Reusability
 - Discover and share services
- More Productivity
 - Drag and drop data binding
 - Declarative validation
 - Control hints



ADF Faces Rich Client Components

- Over 150 components
- Ajax enabled
- Pluggable look and feel
- Accessibility & internationalization
- The usual components plus:
 - Charts, gantt, geo-map, pivot, calendars, carousel
- Built in advanced functionality:
 - Drag and drop framework
 - Dialog and pop-up framework
 - “Active Data” - Dashboards / push updates (comet)
 - Templating and declarative components



ADF Controller

- An extension to the JSF page flow engine
- Define flows of pages and methods
- Diagram your process
- Build reusable task flows
 - In other flows, inside other pages
- Advance functionality in a declarative way
 - Transaction, initialization, Back button

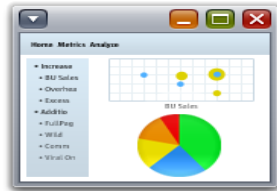


Oracle ADF Basic Architecture

View

Business Logic

Data



Data
Binding

ADF
Business
Components



Oracle ADF A More Complete Architecture

View

Business Logic

Data



Oracle ADF – Mobile Too

View

Business Logic

Data



Demo

Developing with Oracle ADF

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3 Options for Accessing Your Application Data

- Direct access to the database
 - Simplest solution
 - Might lose some functionality which is in the application level for example flex fields
- Web Service Interfaces
 - Official interfaces – use ADF Web Service Data Control
- Other interfaces
 - PL/SQL, Java etc...
 - SOA Suite Adaptors

PeopleSoft Integration Options

- Web Services
- RESTful Service
- iScript
- Direct Database

Integrating E-Business Suite with ADF

Styles of Integration

- Direct DB Access
 - Simplest
 - Lose application specific data/functionality (flexfield, security)
 - Not recommended
- Access Through Interfaces
 - Oracle E-Business Suite SDK for Java (recommended)
 - Write your own interfaces
- SOA
 - SOA Suite adapter (Recommended)
 - Hybrid solution
- Mixing custom interfaces with either SDK or SOA

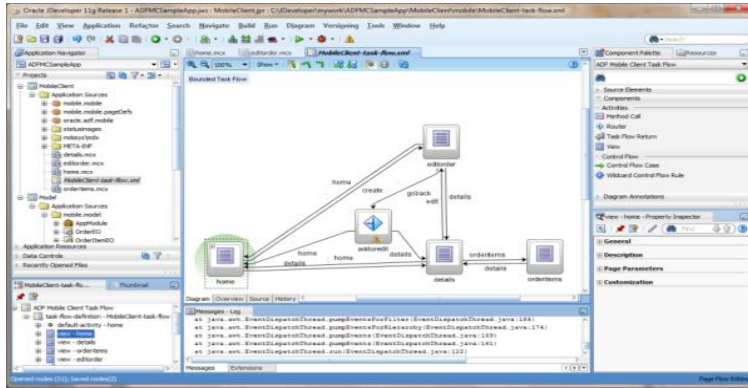


Agenda

- ADF Overview
- Integrating Oracle Applications
- **ADF Mobile Browser**
- ADF Mobile Framework



ADF Mobile Browser Overview



Visual
Declarative
Rapid
Reuse

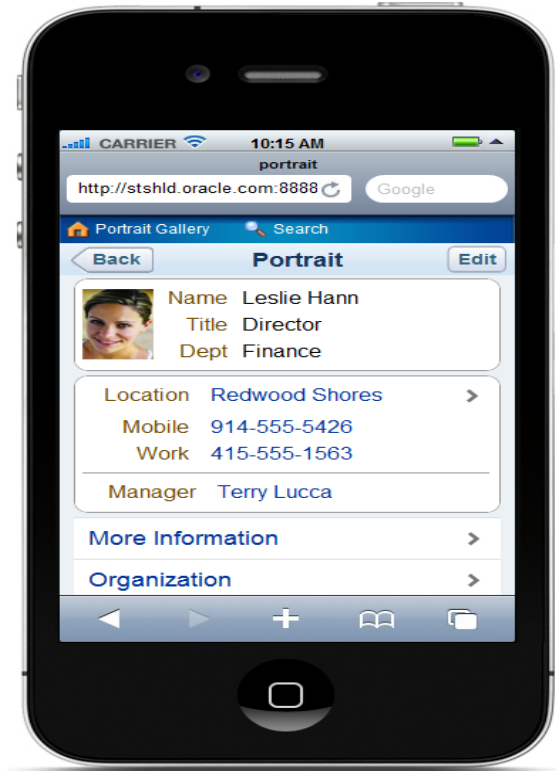


Mobile Browser

ORACLE®
FUSION MIDDLEWARE **11g**
JDEVELOPER

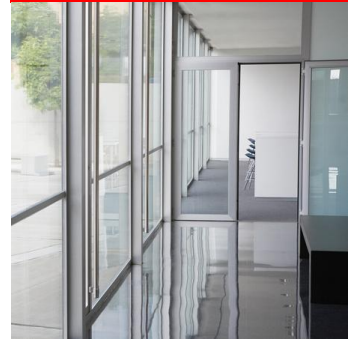
ADF Mobile Browser

- Delivers mobile-optimized native look-and-feel user interface to mobile browsers
- Adjusts to device's browser capabilities
- Supports virtually any mobile device



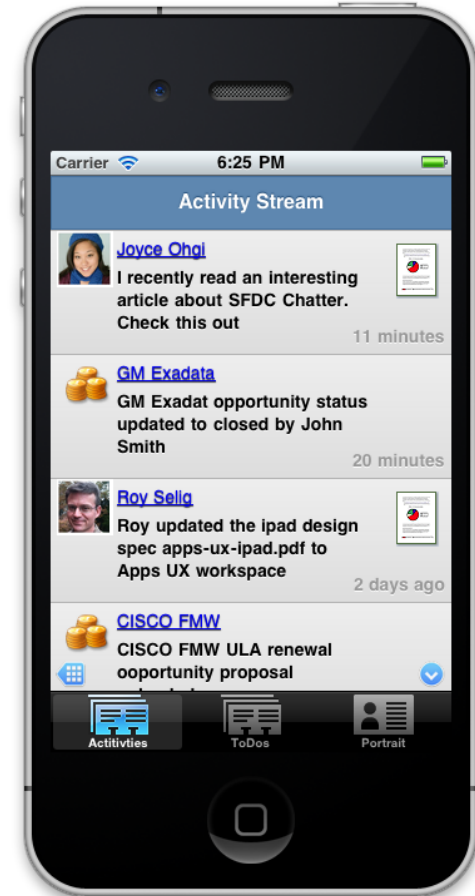
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- ADF Mobile Browser
- **ADF Mobile Framework**



Application Development Framework Mobile

- Build once, and deploy to multiple mobile platforms
- Supports both mobile browser and on-device rich mobile applications
- Deliver mobile-optimized user experience
- Mobile-enable enterprise middleware and applications
- Visual and rapid mobile app development



Native Mobile User Experience

- Device native user experience
- Spring board and tab bar for feature navigation
- Advanced HTML5-based UI
- Full animation, gesture, and touch interaction support
- Based on JQueryMobile
- Interactive Data Visualization Components



Mobile Use Cases

- Extend Oracle Fusion Middleware to Mobile Devices
 - WebCenter, BPM/Worklist approval/human tasks, etc.
- Quickly Extend Oracle Applications to Custom Mobile Applications
 - Expense Approval, Invoice Approval, etc.
- Customer needing mobile workforce apps for mission critical functionality
 - Field Service, Pharma Sales, Inventory Management, Consumer Goods/Retail Execution, etc.

Basic FAQ before Q&A...

- It's for extension not customization
 - Can't be used to customize an existing page in your app
 - Can be used to create new pages in a separate application
- How do I integrate with my application's UI
 - Call a URL and optionally pass parameters
- Runtime platform
 - Requires Fusion Middleware 11g (Oracle WebLogic) – might be a separate server from your current server
 - We do certify Apps Unlimited on Fusion Middleware 11g

Summary

- Oracle ADF is the strategic development framework at Oracle – Fusion Applications and more
- Oracle ADF provides rich Web 2.0 and mobile interfaces
- You can use it today for custom applications
- You can use it on top of existing applications

Q&A

ORACLE®