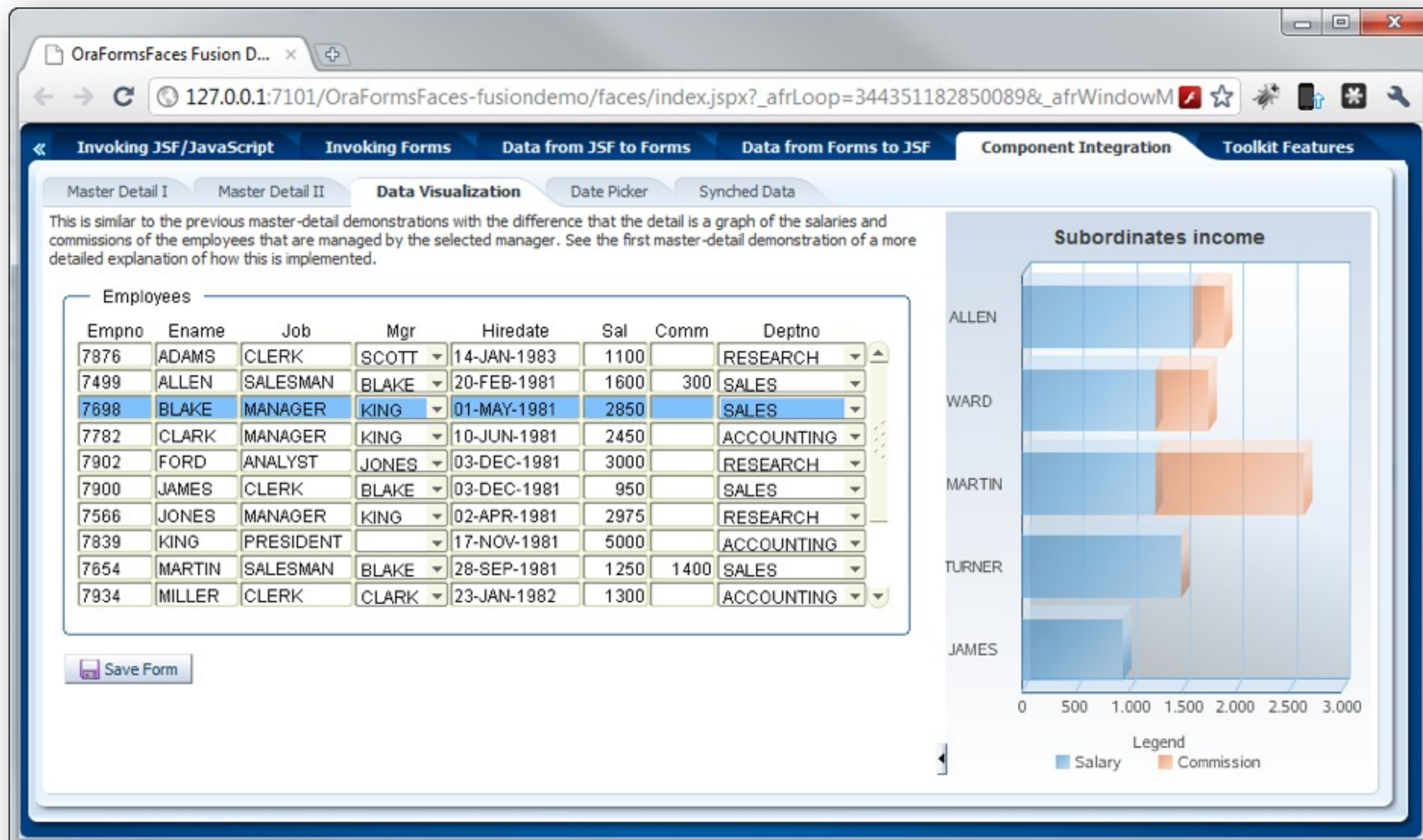


Embedding Forms in ADF

Wilfred van der Deijl





This is similar to the previous master-detail demonstrations with the difference that the detail is a graph of the commissions of the employees that are managed by the selected manager. See the first master-detail demo for a detailed explanation of how this is implemented.

Employees

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Dept
7876	ADAMS	CLERK	SCOTT ▼	14-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE ▼	20-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING ▼	01-MAY-1981	2850		SALES
7782	CLARK	MANAGER	KING ▼	10-JUN-1981	2450		ACCOUNTING
7902	FORD	ANALYST	JONES ▼	03-DEC-1981	3000		RESEARCH
7900	JAMES	CLERK	BLAKE ▼	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING ▼	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT	▼	17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE ▼	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK ▼	23-JAN-1982	1300		ACCOUNTING



Save Form

Date Picker

Synched Data

See that the detail is a graph of the salaries and
See the first master-detail demonstration of a more

Sal	Comm	Deptno
1100		RESEARCH
1600	300	SALES
2850		SALES
2450		ACCOUNTING
3000		RESEARCH
950		SALES
2975		RESEARCH
5000		ACCOUNTING
1250	1400	SALES
1300		ACCOUNTING

Subordinates income

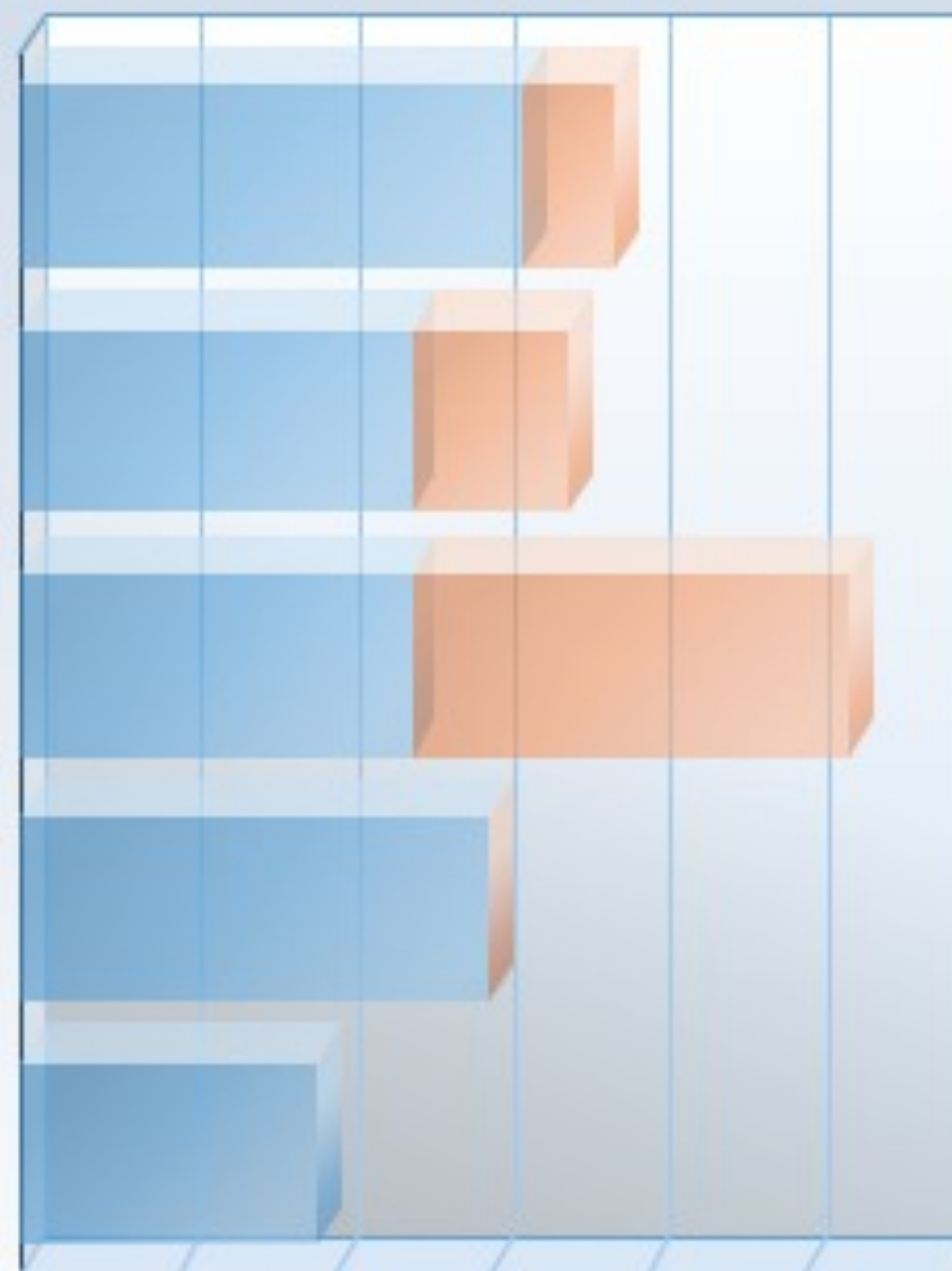
ALLEN

WARD

MARTIN

TURNER

JAMES



What is OraFormsFaces?

- Toolkit to integrate Oracle Forms in web application
- Any web technology, focus on JSF / ADF
- No manual changes to Form modules

Components

- JSF Components
 - Form
 - FormParameter
 - FormCommand
- PL/SQL Library
- JavaScript Library
- Extended Forms Applet...

Applet Extensions

- Extension to Oracle Forms applet
- JavaScript API for Forms prior to 11g
- Applet Legacy Lifecycle Cache
 - Applet instance per session, not page
 - when-applet-suspended
when-applet-activated

UI Clipping

UI Clipping

The screenshot displays the OraFormsFaces Fusion Demo application. The browser window shows the URL `127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afrcLoop=43484623668584&_afrcWindow`. The application has a navigation bar with tabs: Home, Embedding Forms, Clipping/Sizing (selected), Invoking JSF/JavaScript, and Invoking Forms. Below this is a sub-navigation bar with tabs: Full Applet, Clipped Statusbar, Clipped Menu, Clipped Toolbar, Clipped WinTitle, Sizing, and Auto-Sizing. The main content area shows a table titled "Employees" with columns: Empno, Ename, Job, Mgr, Hiredate, Sal, Comm, and Deptno. The table contains 12 rows of employee data. At the bottom, there is a record indicator showing "Record: 1/?".

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
7902	FORD	ANALYST	JONES	03-DEC-1981	3000		RESEARCH
7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

UI Clipping

OraFormsFaces Fusion Demo

127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afLoop=43484623668584&_afWindow

Home Embedding Forms **Clipping/Sizing** Invoking JSF/JavaScript Invoking Forms

Full Applet Clipped Statusbar Clipped Menu Clipped Toolbar Clipped WinTitle Sizing Auto-Sizing

Action Edit Query Block Record Field Help Window

Employees

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
7902	FORD	ANALYST	JONES	03-DEC-1981	3000		RESEARCH
7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

Record: 1/?

UI Clipping

The screenshot displays the OraFormsFaces Fusion Demo application in a web browser. The browser's address bar shows the URL: `127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afLoop=43484623668584&_afWindow`. The application's navigation bar includes tabs for **Home**, **Embedding Forms**, **Clipping/Sizing** (which is the active tab), **Invoking JSF/JavaScript**, and **Invoking Forms**. Below the navigation bar, there are sub-tabs for **Full Applet**, **Clipped Statusbar**, **Clipped Menu**, **Clipped Toolbar**, **Clipped WinTitle**, **Sizing**, and **Auto-Sizing**. The main content area features a menu bar with **Action**, **Edit**, **Query**, **Block**, **Record**, **Field**, **Help**, and **Window**. Below the menu bar is a toolbar with various icons for file operations and navigation. The central part of the application displays a window titled **Employees** containing a table of employee data. The table has columns for **Empno**, **Ename**, **Job**, **Mgr**, **Hiredate**, **Sal**, **Comm**, and **Deptno**. The first row of data is highlighted in blue.

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
7902	FORD	ANALYST	JONES	03-DEC-1981	3000		RESEARCH
7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

UI Clipping

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Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
7902	FORD	ANALYST	JONES	03-DEC-1981	3000		RESEARCH
7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

autoClipBottom=statusBar

UI Clipping

The screenshot shows a web browser window titled "OraFormsFaces Fusion Demo" with the URL `127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afLoop=43484623668584&_afWindow`. The application has a navigation bar with tabs: Home, Embedding Forms, Clipping/Sizing (selected), Invoking JSF/JavaScript, and Invoking Forms. Below this is a sub-navigation bar with tabs: Full Applet, Clipped Statusbar, Clipped Menu, Clipped Toolbar, Clipped WinTitle, Sizing, and Auto-Sizing. A yellow highlight is placed over the menu bar containing the items: Action, Edit, Query, Block, Record, Field, Help, and Window. Below the menu bar is a toolbar with various icons. The main content area displays a table titled "Employees" with the following data:

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
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7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
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Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
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7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

UI Clipping

The screenshot shows the OraFormsFaces Fusion Demo application. The browser address bar indicates the URL: 127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afLoop=43484623668584&_afWindow. The application has a navigation bar with tabs: Home, Embedding Forms, Clipping/Sizing (selected), Invoking JSF/JavaScript, and Invoking Forms. Below the navigation bar, there are sub-tabs: Full Applet, Clipped Statusbar, Clipped Menu, Clipped Toolbar, Clipped WinTitle, Sizing, and Auto-Sizing. The main content area displays a table titled 'Employees' with columns: Empno, Ename, Job, Mgr, Hiredate, Sal, Comm, and Deptno. The table contains 12 rows of employee data. A purple box at the bottom right of the application window contains the text 'autoClipTop=menu'.

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
7902	FORD	ANALYST	JONES	03-DEC-1981	3000		RESEARCH
7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

autoClipTop=menu

UI Clipping

The screenshot displays the OraFormsFaces Fusion Demo application. The browser address bar shows the URL: `127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afrLoop=43484623668584&_afrWindow`. The application has a navigation bar with tabs: Home, Embedding Forms, Clipping/Sizing (selected), Invoking JSF/JavaScript, and Invoking Forms. Below this, there is a sub-navigation bar with tabs: Full Applet, Clipped Statusbar, Clipped Menu, Clipped Toolbar, Clipped WinTitle, Sizing, and Auto-Sizing. A yellow highlight is placed over the Clipped Toolbar tab. The main content area shows a table titled "Employees" with the following data:

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
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7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

UI Clipping

OraFormsFaces Fusion Demo

127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afrcLoop=43484623668584&_afrcWindow

Home Embedding Forms **Clipping/Sizing** Invoking JSF/JavaScript Invoking Forms

Full Applet Clipped Statusbar Clipped Menu Clipped Toolbar Clipped WinTitle Sizing Auto-Sizing

Employees

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
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7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

UI Clipping

The screenshot shows a web browser window titled "OraFormsFaces Fusion Demo" with the URL "127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afrcLoop=43484623668584&_afrcWindow". The application has a navigation bar with tabs: Home, Embedding Forms, Clipping/Sizing (selected), Invoking JSF/JavaScript, and Invoking Forms. Below the navigation bar, there are sub-tabs: Full Applet, Clipped Statusbar, Clipped Menu, Clipped Toolbar, Clipped WinTitle, Sizing, and Auto-Sizing. The main content area displays a table titled "Employees" with the following data:

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
7902	FORD	ANALYST	JONES	03-DEC-1981	3000		RESEARCH
7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

At the bottom of the application, there is a purple box containing the text "autoClipTop=toolbar".

UI Clipping

The screenshot displays the OraFormsFaces Fusion Demo application in a web browser. The browser's address bar shows the URL: `127.0.0.1:7101/OraFormsFaces-fusiondemo/faces/index.jspx?_afrLoop=43484623668584&_afrWindow=`. The application has a navigation bar with tabs: Home, Embedding Forms, Clipping/Sizing (selected), Invoking JSF/JavaScript, and Invoking Forms. Below this, there is a sub-navigation bar with tabs: Full Applet, Clipped Statusbar, Clipped Menu, Clipped Toolbar, Clipped WinTitle, Sizing, and Auto-Sizing. The main content area shows a window titled 'Employees' with a yellow highlight. Inside this window is a table with the following data:

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
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7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

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Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
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Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
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7900	JAMES	CLERK	BLAKE	03-DEC-1981	950		SALES
7566	JONES	MANAGER	KING	02-APR-1981	2975		RESEARCH
7839	KING	PRESIDENT		17-NOV-1981	5000		ACCOUNTING
7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

autoClipTop=windowTitle

UI Clipping

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Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7876	ADAMS	CLERK	SCOTT	12-JAN-1983	1100		RESEARCH
7499	ALLEN	SALESMAN	BLAKE	18-FEB-1981	1600	300	SALES
7698	BLAKE	MANAGER	KING	01-MAY-1982	2850		SALES
7782	CLARK	MANAGER	KING	09-JUN-1981	2450		ACCOUNTING
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7654	MARTIN	SALESMAN	BLAKE	28-SEP-1981	1250	1400	SALES
7934	MILLER	CLERK	CLARK	23-JAN-1982	1300		ACCOUNTING

Database Credentials

Database Credentials

- Fixed userid parameter in formsweb.cfg
- Oracle Single Sign On / Access Manager
- Normal Forms logon prompt
 - Only advised with single page / full applet
- Java defined credentials...

Java Database Credentials

- Create encryption key
- Implement Java Class @ JSF Server
 - getUsername, getPassword, getConnectString, createCipher
- 11.1+ can leverage proxy authentication
 - biguser[sking]/bigpword@database
- Forms ON-LOGON requests encrypted info with AJAX call, decrypts at Forms server using DB and uses it to log on

Possible Usages

- Phased Migration
- Integrate specific forms in (new) web app
 - ADF web application
 - Oracle Human Workflow Task
 - Oracle Application Express
 - ...other
- Invisible screen scraping (or OraPlayer)

Migration Strategy

1. Re-use Forms as web component
2. Immediate benefit from new web technology
3. Phased re-design
 - Do not underestimate learning curve
 - Business PL/SQL logic: Forms > DB
 - Set your own pace, one step at a time

Access & Pricing

- JDeveloper Help > Check For Updates
 - Enable “Open Source & Partner”
- ...or from www.oraformsfaces.com
- € 20 per FMX per server
(min. € 1000, max. € 6000)
- Support and upgrades after year 1
 - € 5 per FMX / server (max. € 1500)

Later Today

- Tonight technical deep dive / Q&A

Demonstration