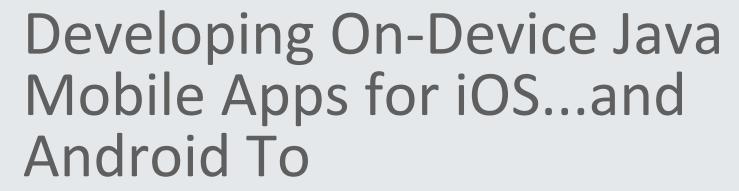
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Warning – demo may contain small fonts – sit closer...

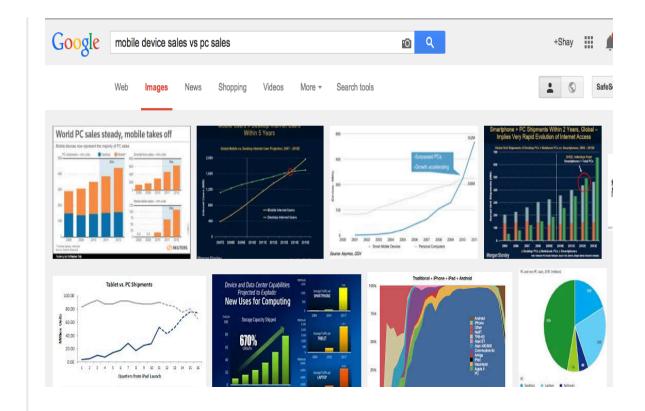
Shay Shmeltzer
Director of Product Management
Mobile and Development Tools
September, 2014
@jdevshay





You Should Be Developing for Mobile

- Lots of graph can show this
- But you are already here so I probably don't need to convince you





The Mobile Developer Dilemma

- Native
 - Develop with the platform's specific SDK, language, tools
- Web
 - Develop once run on many limited "mobile experience"
- Hybrid
 - Develop once run on many





The Mobile Developer Dilemma – Java Developer Edition

- Native
 - Android sort of Java
 - iOS new languages, new tools, new everything
- Web
 - I can do this with Java but functionality is limited
- Hybrid
 - I need to learn new languages and techniques





What If...

- You could use the language you already know Java
- You could use techniques/methodologies you know
 - -MVC
 - Component based UI definition
 - POJO beans
- You could use an IDE you already know Eclipse (or JDeveloper)
- You could leverage device features and notifications
- You could support offline and online



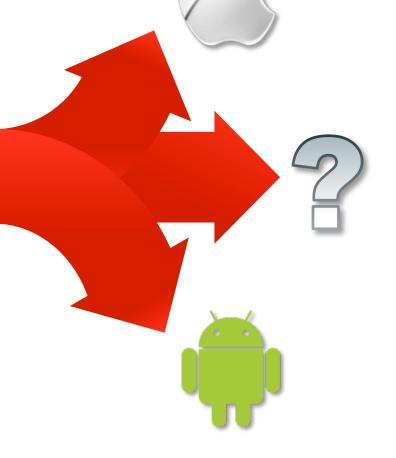


Introducing Oracle Mobile Application Framework Write Once, Deploy to Many

title elles, bepley to many

Oracle Mobile App Framework







Oracle Mobile Application Framework Overview

Productivity boosting mobile development framework

- Build Once, Run on Multiple-Platforms
- Simpler UI development
- Java, JavaScript, and HTML5-based application development
- Choice of development tools
- Offline-capable: SQLite with Encryption
- Full Access to Native Device Features
- Modular, Reusable Components





Supporting Multiple Development Approaches

	Declarative Framework	HTML5+JavaScript
Logic	Java	JavaScript
UI	Oracle Components	Any HTML5 component
Access to backend services	Declarative data controls	Programmatic
Device features integration	Declarative or Java API	JavaScript API
App/Feature Security	Supported	Supported
Push notification	Supported	Supported



Business Logic Development

Access and Process Application Data

- Code logic with Java
 - Model layer beans
 - Controller layer logic/beans
 - Lifecycle events
- Lightweight JVM
- Native library on device





UI Implementation Options in Oracle MAF

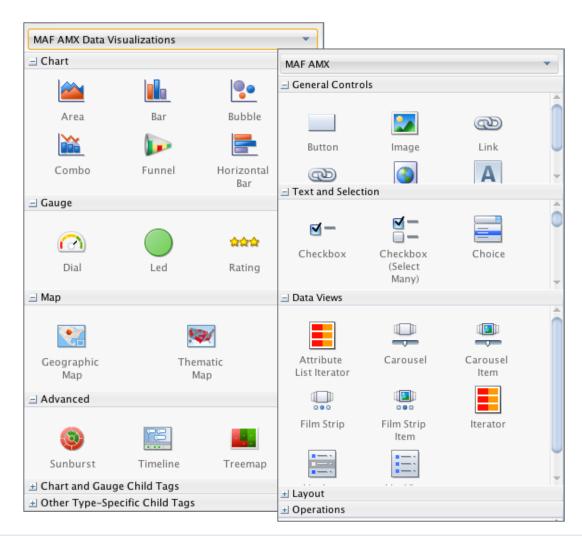
- Component based page definition
 - AMX Components
- Programmatic HTML5
 - with any third-party HTML5 frameworks
- Remote URL
 - Any server-side HTML





Application Mobile XML Components (AMX)

- 80+ Components
- XML format
- Visual development
- Declarative data binding
- Rendered into HTML5/JavaScript on device at RT
- Customized look and feel through CSS





Mobile Optimized UI Experience

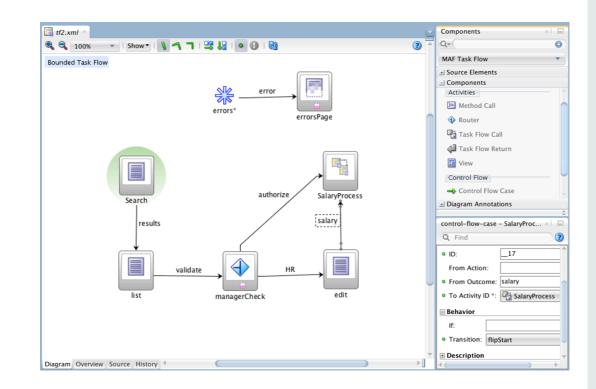
- Native user experience
- Advanced HTML5-based UI
 - Full animation, gesture, and touch interaction support
- Interactive data visualization components
- Optimized performance for mobile





Mobile Application Controller MVC architecture for your mobile application

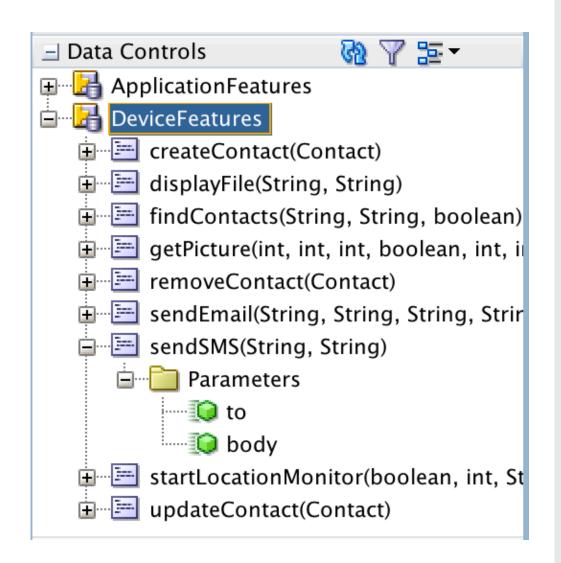
- Define the flow of your application
- Navigate between pages, methods and decision points
- Java code for UI events and managed beans





Device Features Interaction

- Leverages Apache Cordova
- Drag and drop to use
 - Email
 - SMS
 - Contacts
 - GPS
 - Camera
 - Files
- Or access programmatically
 - Java & JavaScript API





Extend and Expand Add capabilities to the framew

- Add capabilities to the framework
- Cordova Plug-in Support
 - Add device integration functionality
 - Cross platform
- Custom AMX Component Support
 - Allows developer to add custom UI components to the framework
- Declarative reusable Component Support





Declarative Customization

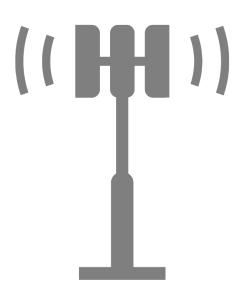
- Add customization/personalization in layers
- Customization applied at runtime
- Supports in-app application updates





Native Push Notification Support

- Push notifications to mobile users from a single code base
- Leverage native push notification
 - iOS: Apple Push Notification
 - Android: Google Cloud Messaging Service
- Tightly integrated
 - With the application lifecycle and business logic





Built-in Security Features

- Authentication
 - Multifactor login
 - Oauth, Web-Form, Basic
- Access Control
 - Roles
- Encryption
 - Local data and in transit
- Oracle Mobile Security Suite Integration
 - Containerization
 - Device access control
 - Single sign on





Development Tools Integration

Increase developer productivity

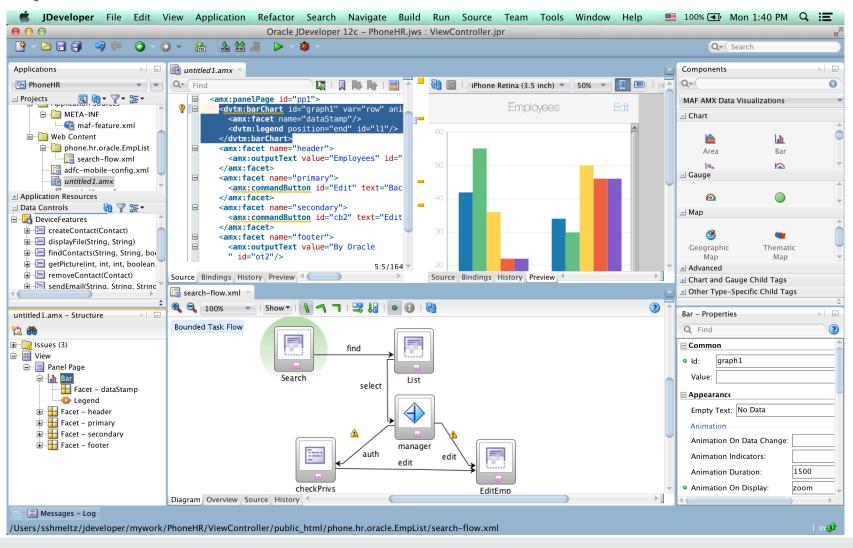
- Oracle JDeveloper or Oracle Enterprise Pack for Eclipse
- IDEs integrate with mobile SDK seamless development/testing/deploying experience
- Productivity boosting IDE
 - Declarative and visual editors
 - Component palette
 - Data control palette
 - Property inspectors
 - Smart code editors



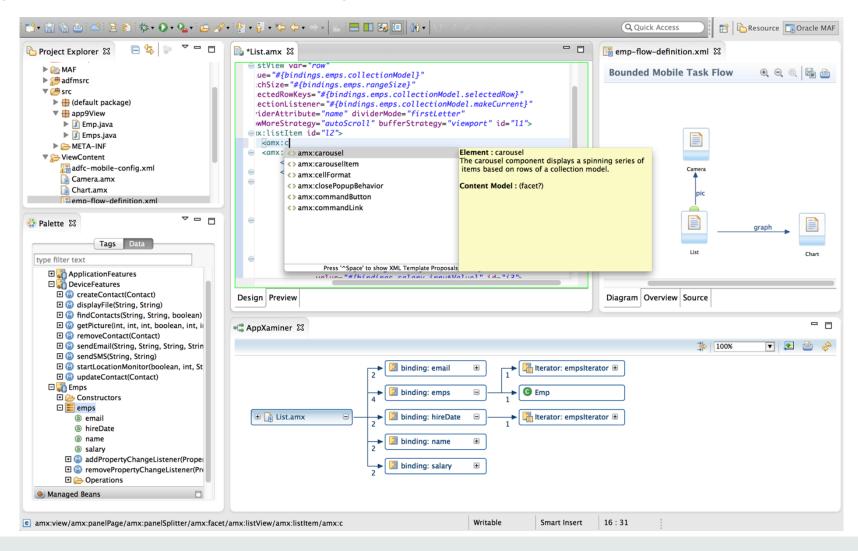




Oracle JDeveloper



Oracle Enterprise Pack for Eclipse



Oracle Mobile Application Framework Architecture Servers App. Configuration Mobile **MAF Device Native Container** Configuration Device Service Web View HTML 5, CSS3 & JavaScript Representation **AMX** Feature Local HTML Remote URL **Feature** Feature Components Server-Generated red HTML Controller **Device Services** entia **REST or SOAP** Management Services Java VM Apache Cordova Client Logic Plugins & APIs **JDBC** ∕£ncrypted Database APN/GCM Push Services



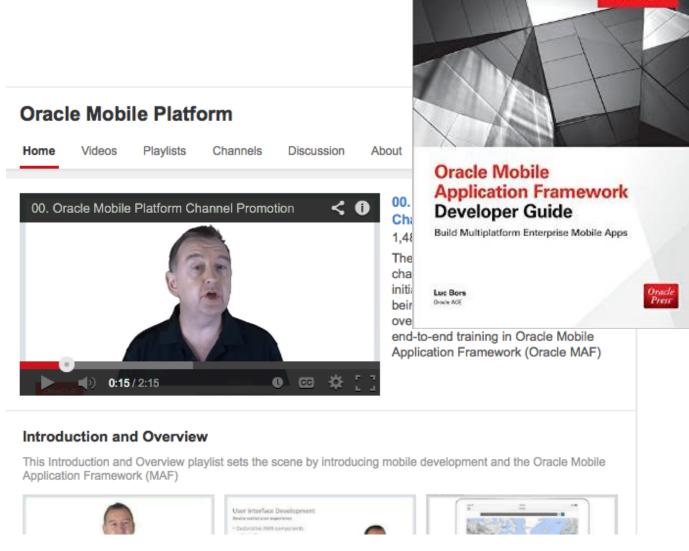




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