5 Signs You Are Ready for Your Digital Transformation

David Brown
AuraPlayer Inc.
The definition of digital transformation is the realignment of, or new investment in, technology, business models, and processes to drive new value for customers and employees and more effectively compete in an ever-changing digital economy.
Introducing AuraPlayer

Founders
Mia Urman  CEO - Oracle ACE Director , 17 years exp. Oracle
Yossi Nakash  R&D manager – Java/ development  16 years

Patents pending
Oracle Gold Partner
› Member of Oracle Customer Advisory Board for Mobile
› Only Certified Plug-in For Oracle Forms to Oracle Mobile Cloud

Awards
- Awarded ODTUG 2016 Innovation Award
  "Excellence in Creative, Effective, Innovative Use of Development Tools "
- UKOUG Digital Transformation Partner of the Year!

Among Our Customers

- MTA
- Bridges and Tunnels
- METRO
- esure
- SAMSUNG
- STAGE
- Weidenhammer
About You

› DBA? Forms Developers? Java Developers? APEX Developers?
› Developing in mobile?
› Begun to think about mobile strategy?
› Using any Oracle cloud products?
› How many devices did you bring with today?
Not convinced you need a mobile strategy? ASK THEM
Cisco: By 2020 almost 7 devices per person on earth!
Your Employees Have Gone Mobile

Time For Your Enterprise to Catch Up!

HAPPY AND PRODUCTIVE WORKFORCE

Companies need not be alarmed by employees’ growing hunger for using mobile devices for work. An increase in mobile and flexible working is actually the key to a happy and productive workforce.

68% of workers said they would be happier working in a more mobile and flexible way.

53% said it makes them more productive.

36% said a wider range of work apps would make them even more productive.

CARRYING ON REGARDLESS

1 in 6 employees have found ways to bypass their companies’ IT security and use personal mobile devices for work without their employer knowing.

67% are using their own personal mobile device for work.

Only 18% of respondents believe their company effectively controls what can be done on a mobile device.
In The Beginning ...Mobile
In The Beginning ...Cloud
Today It is about Engaging User Experiences
San Mateo Marriott San Francisco Airport is close to some great things to do – save time by booking them right on your phone...

Ready for breakfast? Boston Logan International Airport is close to some great places to eat. Take a look at where people love to go...
Today It is about Agility - Microservices
Today It is about Instant Communication
AI / ChatBots

Then

email?
spam...

website?
meh...

my app?
which?

phone?
buh-bye

Now

hey

What up?

@Philz

+1
The Service Experience Today

You dial in.  
You hear music. 
You hear more music.  
You are asked to make a numeric choice.  
You hear music.  
You make one more choice.  
You hear music.  
You hear more music.  
You learn that all agents are busy.  
You are asked to "hold the line".  
You hear music.

Any idea of how this experience can be improved?
No one “Cares” Until I tweet!
Two Broad Categories of Bots

Task Oriented

Data Driven & Predictive
5 Signs that I’m Ready for my Digital Transformation!

- I have a significant Oracle Forms investment and need to go mobile
- Are employees using paper, phone calls or clerks to enter data into a back-office system?
- Could the system benefit from image capture, signature capture, scanning technologies?
- Is the data for the system gathered on location THEN entered into the system after the fact?
- Do employees need to return or call into the office to get information to do their job?
Getting Started on the road to mobility
Understand The Business From Users

➢ Observe real end users doing real work: Can we make them more productive?

➢ Watch surrounding and environmental challenges: Can we improve employees user experience.

➢ Are users missing data to do their jobs?

➢ Enhance data gathering: cameras, SMS, social media, personal, location, voice

➢ Types of Users – Occasional, Internal/external
Analyze Mobile Requirements

› What OS: iOS / Android / Windows
› Device type, Screen size
› Device Features / Capabilities
› Offline / Connected
› Processing power
› BYOD?
› Types of Users – Occasional, Internal/external
› Type of Applications – Browser Based / Hybrid
Are you ready for mobile?

› Devices
› New development tools and environments
  • Xcode / Android
› Development machines
› Mobile developers
› Mobile Infrastructure
  • Security
  • Service Bus
  • Load
Consider Mobile Challenges

› No mouse, Function keys
› Using gestures
› Harder to type
› Smaller screen / Less screens
› Difficult to touch small elements
› Slower network – Disconnects
› Security
Why do I need a Mobile Strategy for Oracle Forms / E-Business Suite?
The Challenge: Agility

Deliver Enterprise Systems to Mobile Channels Without Costly and Risky Redevelopment Projects
Your Challenge

Modern Mobile 1st Apps
- Amazing User eXperience
- Push Notifications
- Multiple device platforms
- Offline working
- Analytics
- Security

Back-Office Application
- Business logic reuse
- Integration
- Development costs
- Re-testing
- Time to Market
- Stability risk

How do I build modern, Mobile 1st apps on top of legacy desktop Forms applications?
"What if you could mobilize / modernize any Forms / EBS business process, without changing or adding a single line of code?"  
Grant Ronald, Oracle
Introducing AuraPlayer

Unlock the business logic trapped within your Oracle Forms / Oracle E-Business Suite systems without redevelopment cost & risk

Same System - Many User Interfaces / Devices
DO NOT run Forms on the mobile
run your BUSINESS on the mobile
The Solution for Going Mobile with Oracle Forms

Enterprise grade Mobile Back-end in the Cloud

Open standards, RESTful interfaces

Mobile analytics optimize performance

Expose existing Forms Applications as Web Services without writing one line of code

Rapid wizard-based development

No redevelopment or migration of the Oracle Forms System

Built-in Mobile Services for notifications, user management, offline data
Oracle Mobile Cloud Platform

MOBILE APPLICATION FRAMEWORK (MAF)

Cross Platform Development
Write Once - Run on iOS / Android

JAVA SCRIPT EXTENSION TOOLKIT (JET)

Enterprise Grade MBaaS
Mobile API Catalog, Security, Services, Analytics

MOBILE CLOUD SERVICE

MOBILE APPLICATION ACCELERATOR

No Code Mobile Application Composer
Oracle Mobile Framework

- Develop in Java for iOS and Android deployment
- Build once deploy to multiple platforms
- Develop in Jdeveloper or Eclipse
- Over 80+ UI components
- Offline capability with SQLite with encryption
- Full access to native device features
- What you see is what you get editor
Oracle JET

- Complete JavaScript development framework
- Advanced two-way binding with a common model layer
- Leverages popular open-source technologies
- Rich set of UI components
- Smart resource management
- For intermediate & advanced JS devs
- Free and Open Sourced
Oracle Mobile Application Accelerator

Non technical staff can now create cross-platform mobile applications visually, using only a browser.
Build User Experience

Basic Components

Data View

Visualizations
Making mobile simple

Oracle Mobile Cloud Service

Engaging mobile front-end experience

Enterprise grade backend

Systems of Record & Services

A set of Cloud-based mobile services designed to make app development & integration quick, secure & easy to deploy.
Oracle Mobile Cloud Service

Built for Mobile
- Microservices API’s extensible with JavaScript (Node.JS)
- Built in Mobile APIs (Sync, Push, User Mgmt..)
- Development environment based on persona / role
- Enterprise grade security
- Client Development Tool Agnostic
- Usage & analytics for developers & business owners
- Integrated with Oracle’s complete PaaS solution and applications

Mobile 1st meets API First
Maximize Mobile Moments with Greater Insight

GATHER RELEVANT USER DATA, TURN INTO ACTIONABLE INSIGHTS

SOLVE BUSINESS NEEDS THROUGH TARGETED USER ENGAGEMENT

COLLECT, UNDERSTAND, ENGAGE
3 Steps to Mobile Success

1. Business process and User eXperience
   - Identify the Oracle Forms business process
   - Define the end-user experience
   - Create a Storyboard / Wireframe

2. Mobile APIs & Services
   - Record your Oracle Forms process
   - Expose REST services
   - Create your mobile REST APIs – Oracle MCS

3. Mobile App
   - Develop mobile app against your mobile APIs, in the tools of your choice
   - Be agile, release early, release often
   - Measure success with Mobile Analytics
Foreman app used to record time reports, equipment and units usage of projects and tasks on location to automatically update the back office Oracle EBS systems through AuraPlayer and Oracle MCS
Business Issue to Solve
Oracle Mobile Framework on Samsung Tablet
New York MTA Solution

- Device Resident App
- Secure offline storage
- Samsung Device Integrations
  - Pen Integration
  - Voice Integration
  - Camera In
- REST API Shaping
- Offline Data Sync
- Push Notifications
- Image Storage
- Single Sign On
- Usage Analytics
- Forms to REST
- MCS Connector
- Automatically Sync mobile App to “back-Office Oracle Forms systems”
Simplified Solution Architecture

How Oracle Forms works today

Oracle Database → Oracle Forms Server (running on WebLogic) → Oracle Forms UI

Data to/from UI
How to mobilize Oracle Forms

Simplified Solution Architecture

Oracle Database

Oracle Forms Server (running on WebLogic)

Oracle Forms UI

Web service to mimic the appropriate fields from the Forms UI
How to mobilize Oracle Forms

Simplified Solution Architecture

Oracle Database

Oracle Forms Server
(running on WebLogic)

Data to/from UI

Oracle Forms UI

Custom mobile app

MOBILE CLOUD SERVICE
MCS Analytics – Syncing of Collisions
NYC MTA MOBILIZES THEIR COLLISION REPORTING SYSTEM WITH AURAPLAYER IN 1 MONTH
Secure Architecture using AuraPlayer synch
Future Architecture: Full Cloud Infrastructure

Oracle Mobile Cloud Service

Oracle JCS

Oracle Database

Desktop

Internal Network

Firewall

SSL Web Service Auth

API

REST connector
Future Architecture: Full Cloud Infrastructure

Oracle IAAS
Oracle Forms / DB

Oracle Mobile Cloud Service

API
REST connector
SSL Web Service Auth
AP Playback

Data sync

Oracle Mobile Cloud Service
Oracle JCS
Oracle Forms / DB

Internal Network
Oracle DB

Desktop
Benefits of the Solution

• **Online Solution** - Act on budgetary information immediately
• **Customized** - Solution created to meet YOUR needs/requirements
• **Leverage Existing business processes** – EBS can go mobile in minutes
• **Low cost of ownership** - Software can be used to create unlimited apps
• **Low maintenance** – Maintain one system running on both desktop & tablet
• **Risk Free Solution** – No changes needed to existing system or data
• **Maximize ROI** - Leverage existing EBS investment
The Way Forward

› **Review Current Landscape**
  • Where can mobile increase revenue, promote corporate efficiency

› **Assess Your Requirements**
  • What platforms do we need to deploy to? UI requirements?

› **Understand Existing System**
  • Where does the business logic sit today?

› **Define Timeline and Budget**

› **Choose development tools to review**

› **Conduct Proof of Concept of Proposed options**

› **Decide on final Implementation Method**
More Information

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The Right Technology for the Right Person

Java Developer: Oracle ADF, Oracle MAF
JavaScript Developer: Oracle JET
PL/SQL Developer: Oracle APEX, Oracle Forms
Business User: Oracle ABCS, Oracle MAX