Mobile Delivery

Towards Portable Cloud Computing

July 29, 2009

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Mobile Delivery
Towards Portable Cloud Computing

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Where we're going in this session

- The mobile environment
- The cloud environment
- The TESC environment
- The TESC + Hot Lava Mobile solution

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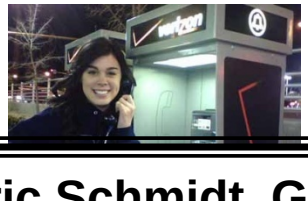
What do all of these people have in common?

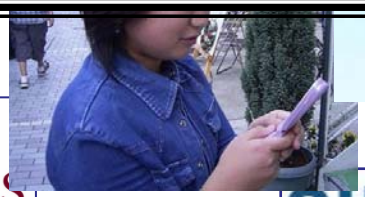
THE "BIG PICTURE"



Eric Schmidt, Google CEO

John Traxler, mLearning Author and Presenter

"Looking at mobile learning in a wider context, we have to recognize that mobile, personal, and wireless devices are now radically transforming societal notions of discourse and knowledge, and are responsible for new forms of art, employment, language, commerce, deprivation, and crime, as well as learning."



Where are we now?

- Interest in Mobile learning has increased since 2000
  - Conference Growth
  - Academic research
  - Corporate implementation
- mLearning and eLearning Distinctions being made
  - Tethered – connected to your PC/laptop
  - What you habitually carry – keys and mobile
- Inherently personal and flexible
  - Informal or formal

A Few Statistics

- 60% of the world's population uses a mobile device
  - 3x more wireless subscriptions than wireline
- By 2010, 90% of world's population in reach of a cell network
- 3rd world countries will not go the PC route
  - Mobile is cheaper, durable, energy efficient
- Proliferation of devices and mobile platforms
  - PC = 80's, Laptop = 90's, Mobile = new millennium
- Gartner – Q1 2009 – 269.1 million cell phones sold. 8.6% decrease Q 2 Q. Smartphones = 36.4 million units, 12.7 increase Q 2 Q.
- Mandatory web package

Dynamics of the mLearning environment

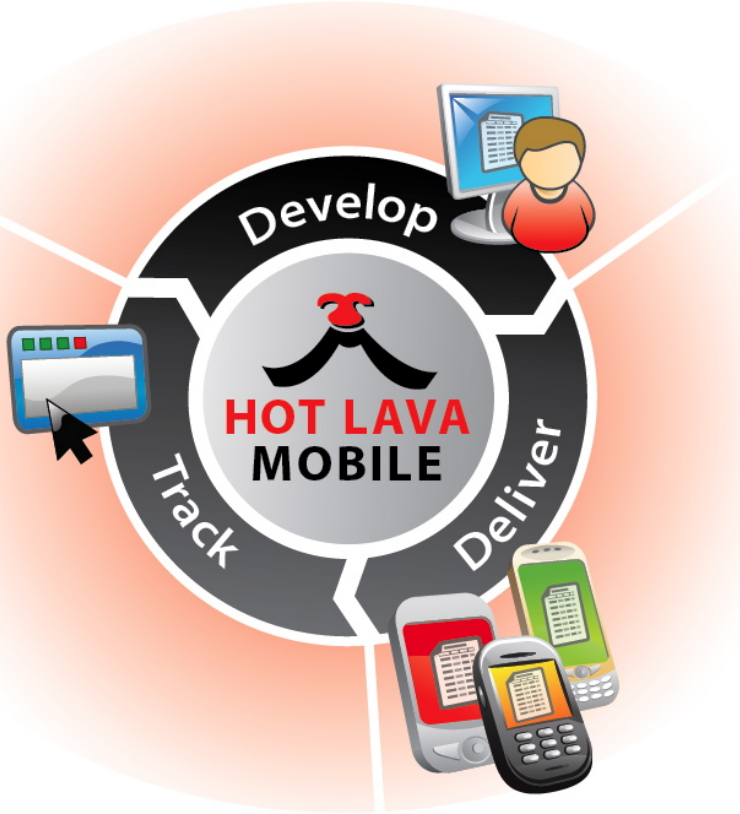
- Variety of mobile devices
  - Mobile phones/WAP enabled mobile phones – 2G devices
  - iTouch, iPhone – 3G devices
  - Portable gaming devices
  - PDA - Pocket PCs
  - Kindle – book readers
  - Netbooks

Audience Poll …

- How many of you have a mobile phone
- How many have a smart phone?
- How many have a web package with their smart phone?
- How many use smart phone to access WWW?

Dynamics of the mLearning environment: A delicate balance

- Devices
- Format
- Learning Needs
- Content
- Carriers
- Data Transfer



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How mobile learning works…

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- Questions?

The cloud environment

- Access to information and ability to participate 24/7
- Device agnostic
- Serves the multi-tasking student
- Must provide accountability
- Tracking and integration

The TESC Environment

- 16,000 students – all distance learners
- adults – average age 34
- BlackBoard 7
- 30,000+ course enrollments in 400+ courses
- Rolling enrollments; 12 semesters per year
- Average student age 38; working adults on the go
- 50%+ are in the military

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The need for a mobile solution

- Military
- Multi-tasking – career persons and soccer moms and dads
- People on the go
- Appeal for younger learners and a new generation of learners
- Enrollment challenges
- Need to have, not nice to have - tie to BlackBoard

The TESC + Hot Lava Mobile Solution

- Content to be mobilized
  - standard quizzes for 20 courses
  - all same format
  - all multi-choice
  - Hot Lava content converter
  - Immediate reporting of score to BlackBoard environment
  - Mentor able to check and guide students regardless of when or where they completed the quiz
  - 1,000 students initially
- Commence 7/1/09

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Multiple choice on a BlackBerry BOLD

HOT LAVA MOBILE

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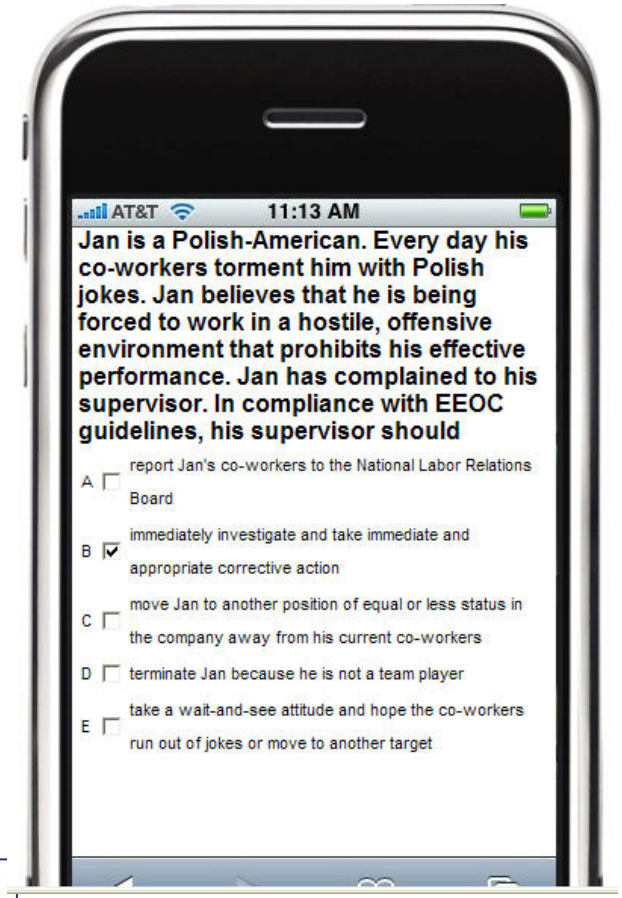

On an iPHONE

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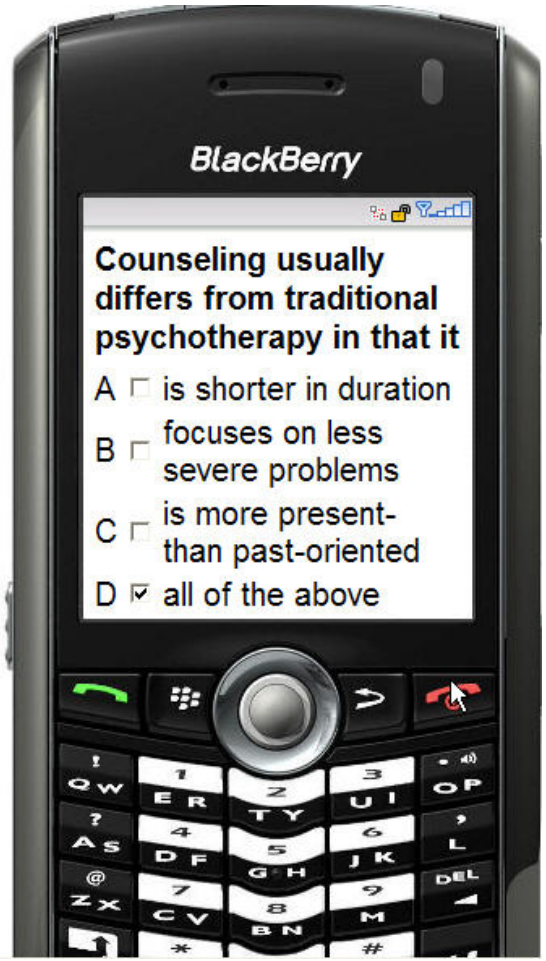

BlackBerry 83xx

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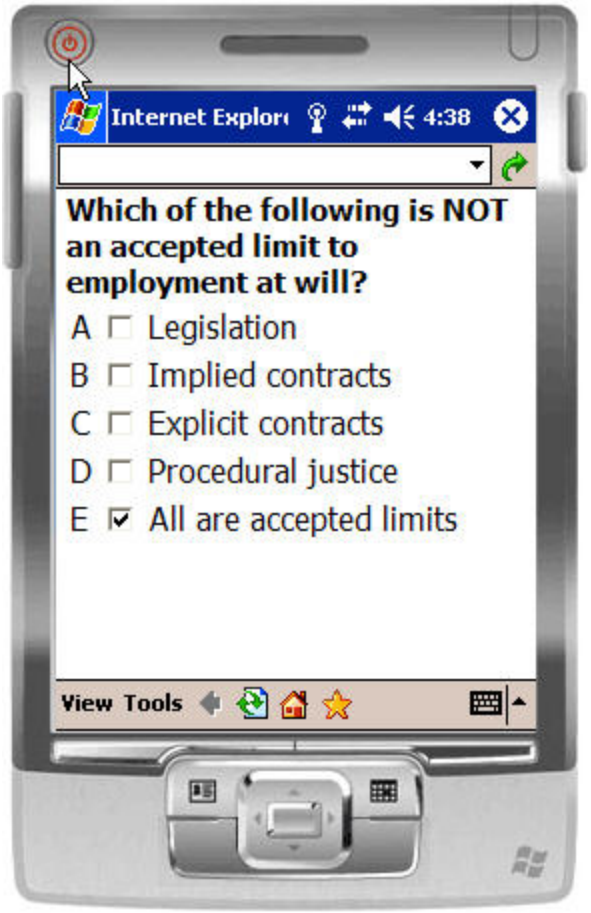

Pocket PC

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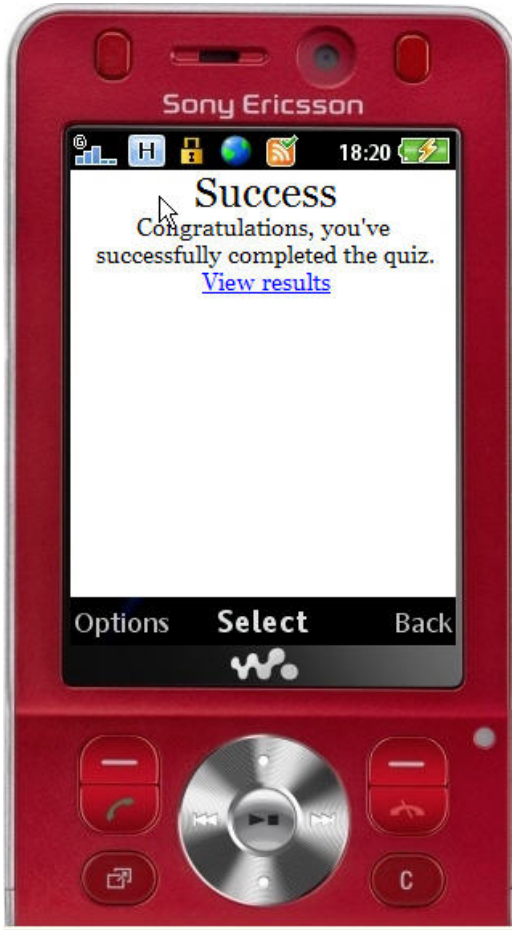

Sony Ericsson

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View Results

HOT LAVA MOBILE

User Results Summary from 7/7/09 12:00 t 7/7/09 5:39

Created on 7/7/09 5:39

Company	*Thomas Edison State College*
Name	aboland
First and last name	Ann Boland
Email	ann@oheassociates.com
Module name	BIO-208 Chapter 1 Quiz
Entry	7/7/09 5:35 PM
Resume	7/7/09 5:35 PM
Exit	7/7/09 5:38 PM
Duration	2 minutes 55 seconds
First attempt	7/7/09 5:38 PM
Last attempt	7/7/09 5:38 PM
Number of test attempts	1
Score	47
Pass level	100
Pass/Fail	failed

report_user

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View Results, con't.

HOT LAVA MOBILE

Pass/Fail	failed
All pages were read	true
Last page	23
Answers	{3:1:w3=,B,,, 10:1:w10=,B,,, 17:1:w17=A,,,, 5:1:w5=,,C,, 14:1:w14=A,,,, 19:1:w19=A,,,, 22:1:w22=,,,D, 20:1:w20=A,,,, 15:1:w15=,B,,, 1:1:w1=,B,,, 18:1:w18=A,,,, 7:1:w7=,,C,, 11:1:w11=,,C,, 13:1:w13=,B,,, 9:1:w9=,B,,, 4:1:w4=,,C,, 12:1:w12=,B,,, 23:1:w23=,,,D, 16:1:w16=A,,,,

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Results at TESC

- Now offering quiz modules in 20 courses
- Optional diagnostic tool
- Integrated into course space
- Not initially credit-bearing

Future mobile developments at TESC

– They said it couldn't be done – entire courses
  - Hybrid of tethered and mobile
  - Military need
  - Executives and people on the go need mobility
  - Online testing
  - E-book delivery
  - Language courses

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- Questions?

Mobile learning … Contact details

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