Practical Uses of Mobile Solutions at University of West Florida

Janusz Chudzynski
About Me

Janusz Chudzynski
Research Associate at the Academic Technology Center of University of West Florida

Responsibilities:
Engaged in a research and development of innovative applications that support learning and teaching.

Author of two eBooks about Programming Mobile Devices

Education:

University of West Florida
M.Sc Computer Science
Software Engineering

Warsaw University of Technology
M.Sc Management and Production Engineering
About University of West Florida

- Founded in 1963
- Total Headcount: 12,588
  - Undergraduate Headcount: 10,158
  - Graduate Headcount: 2,430
- 500 online course sections each semester
- 30 fully online undergraduate, graduate and certificate programs
- Located in Pensacola, Florida
## Mobile Awareness

<table>
<thead>
<tr>
<th>Product</th>
<th>Brand</th>
<th>Mobile Friendly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Native App</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Main Website</td>
<td>Terminal Four CMS</td>
<td>✓</td>
</tr>
<tr>
<td>Learning Management System</td>
<td>Desire2Learn LMS</td>
<td>✓</td>
</tr>
<tr>
<td>Multiple Specialized Mobile Applications</td>
<td>Home made and Desire2Learn apps</td>
<td>✓</td>
</tr>
</tbody>
</table>
Account Obligation Notice: To maintain the privilege of using the ArgoNet account to access UWF eLearning online courses, STUDENT acknowledges that he or she is responsible for maintaining the confidentiality of the password and account, and that he or she is fully responsible for all activities that occur under his or her account.

System Notice

Help Desk Request

- Request Help
  Request assistance from the ITS Help Desk.

Instructor Help Resources

- eLearning Known Issues - View a list of eLearning known issues.
- AskATC - AskATC is a searchable database of

News

Attention All: ITS Help Desk Sunday Pilot

Posted Feb 7, 2014 8:32 AM

Global

In February, March, and April 2014, the ITS Help Desk will offer limited eLearning support on Sundays from 2:00 PM to 6:00 PM (CT). During this time, two employees will be available to answer phone and email questions. This is a pilot program to evaluate the need for weekend support for online students.

For questions or concerns, please contact the ITS Help Desk at (850) 474-2075 or at helpdesk@uwf.edu. (Note: The ITS Help Desk will be closed on Sunday, March 9 during spring break.)
About Academic Technology Center

“Continually improve online and blended learning at UWF”

Our Services

- various forms of support and training
- research and development of teaching and learning technologies

In recent years ATC R&D group developed multiple solutions that serve UWF and general community.

- Web and Mobile Web Apps
- **Mobile Apps: iOS and Android**
- Serious Games and Simulation
- Developing electronic publications (ePubs)
Academic Technology Center Development Process

Client → ATC → Facilitator → Product
ATC → Students
ATC → Support
Different types of mobile solutions at UWF

- Improving Learning Experience
- Supplement Self-Pace
- In-Classroom Tools
- Productivity & Effectiveness
- Events Informative
● Enhance productivity and effectiveness
Attendance App

Combined effort of ROTC and ATC
Goal:
- tracking attendance of ROTC students

Possible future use:
Can be customized to track attendance of any UWF courses or events
Attendance Workflow

1. Prepare list of the students (XML)
2. Upload it to the app (iTunes)
3. Take attendance
4. Export/Analyze (iTunes)
1. Helps with grading
2. It grades only Dropbox activities
Desire2Learn Binder for iPad

Good for document management

Can be synced with:
- Learning Environment
- Photos
- Dropbox
- SkyDrive
Informative Apps

● one way communication
● keeps users updated about particular topic/issue
● can be used as a marketing tool
● great for news, alerts, advertising
UWF Dining

- First in the history UWF native mobile app
- Displays locations and menu of the UWF’s dining venues

Available on the App Store
Event App

Used in several different events:
- iTen Wired
- MOCC

Contains:
- Maps
- Speakers
- Schedule of Sessions
- Custom Schedule
Self Paced Apps

- Supplemental to traditional learning tools
- Might provide one or two way communication
- Provide feedback
- Can be used anywhere and anytime
While they are technically part of the Central Highlands, the Eastern Highland Slopes are different in their climate and agriculture. The moist, monsoonal air masses move up from India and get

Armed attacks on goods vehicles have increased dramatically this year, especially on trucks plying the Kabul-Herat highway. Trucking companies say goods are being stolen or burnt by armed
CDT App is an iOS app created thanks to combined efforts of Academic Technology Center, UWF Building Construction Program and Digital Lighthouse Productions.

**Goal:**
- Improve passing rate of students taking Construction Documents Technologist certification
- find out areas of program difficult for the students to improve teaching process
- promote UWF and Building Construction Program
CDT System

Content Management

Content

Local Database

User's Activity

Tracking user’s activity

App
CDT User’s Activity Tracking

CDT System is Collecting data about:

- Time that user spent in the app
- User’s answers
- Demographic data
  - Professional Experience
  - School

Why bother to track?
- improve learning and teaching process
- find critical areas
- gathering research data
Chapter 4

Who is ultimately responsible for developing the codes, regulations, and standards for building construction in a given area?

States

Government

Authorities having Jurisdiction

Inspectors

Select Your Answer

A  B  C  D

The Federal Govt grants individual states the responsibility and authority to administer activities and then states grant counties and cities the resp. and authority to enforce within their jurisdictions. Those entities are general known by the acronym "AHJ"
CDT Credits

Glenda Mayo CSI, CDT, LEED AP BD+C
UWF Building Construction Program
http://uwf.edu/ect/construction.cfm

Houston Wells
Digital Lighthouse Productions
http://www.lighthousetv.com/about_us.html

Janusz Chudzynski
Academic Technology Center,
http://uwf.edu/atc
Content management:
http://askatc.uwf.edu/FlashCardsApp/DeckQuestions.php
App:
In-Class Apps

- Supplement or replacement to traditional learning tools
- Can be used in the classroom environment
- Add additional level of interaction
- Might provide two way communication
- Provide automated or teacher’s feedback
Fractio

Snack-Time in Fractionville
Fractionville

This iPad app was created thanks to combined effort of Academic Technology Center, School of Education, Computer Science Department and North Carolina State University.

App helps students (grades 3-6) with learning concepts of fractions. What distinguishes the app from others is that it is aligned with Common Core State Standards for Mathematics.

Teachers and students could use this app for teaching and learning of concept of fractions. It’s currently available on the app store.
Fractionville System

Teacher

1. Teacher creates a new account
2. Creates a new course I.D.
3. Share the I.D. with the class
4. Monitor user’s progress
5. Gives feedback

User

Enters as a guest
or
1. Creates new account
2. Use app as part of his/her curriculum
Feedback Mechanism

Teacher's Feedback

1/26/14, 12:22:11 AM  kiddley
Hey Kiddley, you need to work more!

3/11/14, 7:39:47 AM  kiddley
Good job Kiddley!

3/11/14, 3:13:19 AM  kiddley
Good job Kiddley!
Fractionville - User Management

Username
Username

Password
Password

LOGIN

or

REGISTER

or

GUEST

Ask your teacher for the Class I.D.

Register

Cancel
Why Are We Collecting Data

Detecting performance difficulties and predict future student performance.
Intervening when students are struggling.
Personalizing the learning process for each and every student.
Other Projects

- Intelligent Home
- Monitoring Biometric Data of Players
- Biometric Keystrokes
- Peer2Peer Networks
What is an iBeacon?

- Is an indoor positioning system that Apple Inc. calls "a new class of low-powered, low-cost transmitters that can notify nearby iOS7 devices of their presence." They can also be used by the Android operating system. The technology enables an iOS device or other hardware to send push notifications to iOS devices in close proximity [1].
- It's also a name of the mini device that is broadcasting information about itself.

iBeacon Use Cases: Retail

**Contextualized deals:**
based on time, location, client

**Monitoring Shopping Behavior**
storing and analyzing data about customer’s behavior

**Contactless Payments**
iBeacon Use Cases

Education
- Library
- Art Museum
- Indoor mapping
- Scavenger hunts
- Student Orientation
Learning Environments
Intelligent Home

Tracking:
- user’s location
- temperature sensor
- stove
- running water

Controlling & monitoring
- Using mobile device’s interface

Learning from the user’s behavior
* report anomalies
Problems

- Support
- Sustainability
- Finding right people with right skills
- Changing scope of the project from single course to an entire department / college / institution
- Technology transfer
Thank you!

Contact Me

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twitter: @appzzzman