CS371M - Mobile Computing

Class Intro
Teaching Staff

• Mike Scott
  – Lecturer
  – UT since 2000
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office hours MWTh 1-2 pm, GDC 6.304

TA: Michael Nguyen
lab hours,
The Course

• Mobile computing with focus on application development for the Android operating system

• Large, self-selected project with 3 students
Mobile Computing is ...
Mobile Computing is ...

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Clicker Question

• Have you ever written an Android App?
  A. yes
  B. no

• Have you ever written an iOS App?
  A. yes
  B. no

• Have you ever published an app on Google Play or the Apple app store?
  A. yes
  B. no
NDR = No Device Required

• Android application development in Java using Android Studio
• Emulator part of development environment
  – limitations
• dev phones and tablets available for check out
• wireless access only
Work Products

• Tutorials
  – step by step guide to creating a small application
  – tic - tac - toe
• Individual assignments
  – mostly written
• Project
  – design and implement an app and *hopefully* publish it on Google Play
  – broken into various milestones
    • 3 students per project
• Point break down on syllabus
Posters and Demos

• In class poster days 7/20 and 7/21
• Group demo last two days of class
Resources

• Google's Android Development website

• Commonwares
  – The Busy Coder's Guide to Android Development

• StackOverflow for very specific questions

• Other tutorials??
Class Materials

• Syllabus, Schedule, and Resource Page
  – [www.cs.utexas.edu/~scottm/cs371m](http://www.cs.utexas.edu/~scottm/cs371m)

• Assignments, tutorials, grades on Canvas

• Discussion group on Piazza

• Linux machines have development environment
  – *strongly* recommend using your own system

• Tutorial 1 - setting up dev environment on your own machine and using dev environment
  – Hello Android!!
Course Material

• Working in a system
  – not just a stand alone application
• Heavy use of library / API
  – Primary language for Android is Java
• User Interfaces and XML
  – ever create an anonymous inner class in Java?
• Location and Sensing
• Responsiveness
• Graphics and Events
• Gestures
• data bases / SQLite
UTCS Labmap
Aaron Stolarz, Anu Srivastava, Fionnuala Gunter - July 17, 2012
Productivity

Install

Add to Wishlist

⭐⭐⭐⭐⭐ (14)

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Image of the application's interface with three screens showing computer monitor icons in green and red colors.
MoonStocks
Wooden Computers - December 15, 2012
Arcade & Action

Install
Add to Wishlist

⭐⭐⭐⭐⭐ (1)

Description

You are a stock-trading robot whose autonomy depends on maintaining a high rate-of-return that is playing.

Features:
- Entirely free to play!
- Several news articles outlining the events leading up to the opening of the Lunar Market
- More than ten different songs!
- You are a robot!
- Over 12 different buttons to press!
- Sparkles.

Developed by Jeff Meyerson, Josh Stewart, and Pong Tam
Routy
TWENTYTWOTEN - May 24, 2013
Travel & Local

Install  Add to Wishlist

Where does your trip begin?
Panther Trail Austin Texas
Find me!

Where are you going?
Torchy's Tacos
Ken's Doughnuts
Whip In

Route
CALCULATE ROUTE BY:
Shortest  TIME

Total time is:
25 minutes

Route it!

Get directions

Panther Trail

Get directions

Ken's Doughnuts

Whip In

Get directions

Ken's Doughnuts
Know Your Bible
Team KYB - December 11, 2013
Trivia

Install
Add to Wishlist

This app is compatible with your device.

★ ★ ★ ★ ★ (86)

Recommend this on Google

Know Your Bible

I Know That Scripture
Scriptures Database
More Games

Moreover, just as it occurred in the days of Noah, so it will be also in the days of the Son of man.

Book: Genesis
Chapter: 1
Verse: 1

Submit
Next

High Score:

Yo sé la Escritura
Base de Datos
Más Juegos

Libro: Genesis
Capítulo: 1
Verso: 1

Probar
Próximo

Puntuación: 0

Conozca Su Biblia

Que su habla siempre sea con gracia, sazonada con sal, para que sepan como deben dar una respuesta a cada uno.
Questions???
More Past Projects

• Uncommon Books
• Trace Me
• Android Army
• Austin Recycling
• Pulsar
• Austin Art Viewer