

Fall 2011

Design of Portable Multimedia Devices

448460-1
Fall 2011
09/01/2011
Kyoung Shin Park
Multimedia Engineering
Dankook University

Course Information

- Course
 - Design of Portable Multimedia Devices (448460-1)
 - Fall 2011, 3 credits, 3 hours
 - Course hour & room: Thursday 5,6,7 (2nd Science Hall #313-1)
- Instructor
 - Kyoung Shin Park
 - kpark@dankook.ac.kr
 - 010-8636-1960 (mobile)
 - The Third Science Hall, Room 417
 - Office hour: Tuesday 1:00-2:00
- Prerequisites
 - Multimedia Service Design

2

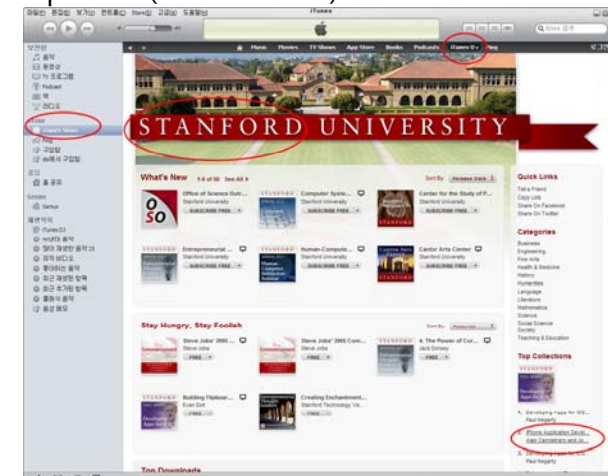
Purpose

- This course will provide an introduction to user interface design and programming techniques for portable multimedia devices.
- In this course, students will form project groups to design and develop a simple iOS application.

3

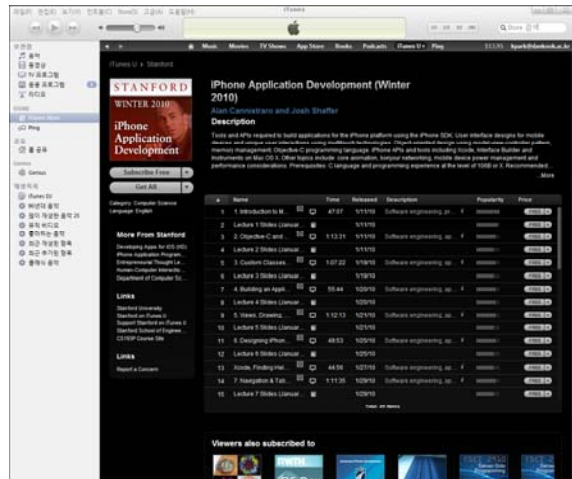
Text Book

- iTunesU > Stanford University > iPhone Application Development (Winter 2010)



Text Book

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Evaluation

- Attendance : 20%
- Individual Assignment: 40%
 - Individual class assignment
 - Presentation
- Term Project: 40%
 - Survey & brainstorming & storyboarding
 - Midterm progress report & presentation
 - Final report & presentation
- Class Participation & Attitude: extra 10 %

Topics

- Overview of iOS, MVC
- Objective-C
- Foundation and Memory Management
- Protocols and Views
- Image View, Web View, Scroll View
- Core Data and Table Views
- Modal Views, Text Inputs
- Multithreading
- Networking
- Media (audio, video, iPod)

Schedule

- 09/01 : Course Overview & Survey
Introduction to Term Project
- 09/08 : Getting Started
Individual assignment (reading summary report)
- 09/15 : Objective-C & Foundation Framework
Individual assignment (iPad survey presentation)
- 09/22 : Views & Application & Navigation
HW1(Term project iPad app modification)
- 09/29 : Controllers
HW2(Term project brainstorming)

Schedule

- 10/06 : Image View, Web View, Scroll View
 HW3 (Term project storyboarding)
- 10/13 : Table View & Core Data
 HW4 (Term project tech support)
- 10/20 : Media(audio, video)
 HW5 (Term project UI design)
- 10/27 : Individual assignment (Midterm Presentation)
- 11/03 : Term Project Presentation
- 11/10 : Term Project Presentation
- 11/17 : No class
- 11/24 : Term Project Presentation

9

Schedule

- 12/01 : Term Project Presentation
- 12/08 : Term Project Presentation
- 12/15 : HW6 (Term project final design document)

10

Individual Assignment

- Reading summary report
 - 1-page report
- iPad application survey
 - 5~10 min presentation & discussion
 - 3~5 page (single-space, 10-point font) report
- Paper presentation on iPad/iPhone related works
 - 15~20 min presentation & discussion
 - 5~10-page (single-space, 10-point font) report

11

Term Project

- Topic: iPad/iPhone Restaurant Menu Order Application



The image shows a YouTube video player interface. At the top, the YouTube logo is visible. Below it, the video title is "Restaurants using ipad" by "thebostonglobe", with 1,577 views and a "구독하기" (Subscribe) button. The video thumbnail shows a person's hands using an iPad at a restaurant counter. Below the video player, there are interaction buttons: "좋아요" (Like), "추가 대상" (Add to playlist), and "공유" (Share). The video has 6,983 likes. At the bottom, the video description reads: "2011. 02. 17. thebostonglobe님이 올린 동영상 (Boston Globe) Au Bon Pain uses the ipad to expedite the food ordering process."

12

Term Project

- Students are encouraged to work on a project related to your own area of interest
 - Idea brainstorming
 - Related work survey
 - Term project critique & group members evaluation
 - Extra Credit 10% - paper reading & presentation
- Projects can be done as groups of two or three.
- Also, the project report should indicate to which portions of the project each member contributed.
- You group project blog will also help monitor your steady progress across the semester.
- Also, the final project report should indicate to which portions of the project each member contributed.

13

Term Project

- iPhone/iPad application modification
- Application brainstorming & storyboarding
- Application technology support & UI design
 - 10~15 min presentation & discussion
 - 5~10-page (single-space, 10-point font) report
- Final design document (12/14)
 - 20 min presentation & demonstration
 - 10-page (single-space, 10-point font) report

14

Term Project Groups

- 1 group-
- 2 group-
- 3 group-
- 4 group-

15

Announcement

- Class blog:
<http://dis.dankook.ac.kr/lectures/pmd11/>



16