

Virginia Western Community College
ITD 120
Design Concepts for Mobile Applications

Prerequisites

ITP140

Course Description

Provides skills for designing both Web-based and stand-alone applications for wireless devices. Details discussions of the needs for applications including mobile phones and a range of rich hand-held devices such as PDA's. Emphasizes the importance of usability, accessibility, optimization and performance to create fast-loading business enterprise applications and games.

Semester Credits: 3 Lecture Hours: 3 Lab/Clinical/Internship Hours: 0**Required Materials****Textbook:**

jQuery Mobile Web Development Essentials –by Raymond Camden and Andy Matthes Publisher: Packt Publishing, Pub Date: September 2013 ISBN-10: 1782167897 ISBN-13: 9781782167891, Second Edition

Other Required Materials:

Notepad ++, Brackets or other text editor (freeware). Some photo editing software (freeware)

Course Outcomes**At the completion of this course, the student should be able to:**

- Be able to prep and prepare a JQuery Mobile Project
- Work with JQuery Mobile Pages, CSS, HTML, JavaScript & JQuery
- Enhance Pages with Headers, Footers, and Toolbars
- Manipulate JavaScript Arrays and Functions
- Build a Simple JavaScript / JQuery Game
- Work with Forms and JQuery Mobile Tools
- Create Modal Dialogs and Widgets
- An Extensive Understanding of Mobile Applications
- JQuery Mobile Configuration, Utilities, and JavaScript Functions
- Work with Events, Key Capturing, and manipulation of mouse.
- Be able to transition HTML, CSS, JavaScript and JQuery to work with multiple platforms and browsers.

Topical Description

1. Chapter 1: Preparing Your First jQuery Mobile Project
2. Chapter 2: Working with jQuery Mobile Pages
3. Chapter 3: Enhancing Pages with Headers, Footers, and Toolbars
4. Chapter 4: Working with Lists
5. Chapter 5: Getting Practical – Building a Simple Hotel Mobile Site
6. Chapter 6: Working with Forms and jQuery Mobile
7. Chapter 7: Creating Modal Dialogs and Widgets
8. Chapter 8: Moving Further with the Notekeeper Mobile Application
9. Adding functionalities with JavaScript

Notes to Instructors

- Safari Online is available for students to view other Java text and reference books online for free
- Internet searches are a fundamental source for auxiliary materials on Web design
- Video movies provided by the instructor