Social Media Apps Programming

jQuery Mobile

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1021SMAP06
TLMXM1A (8687) (M2143) (Fall 2013)
(MIS MBA) (2 Credits, Elective) [Full English Course]
Thu 9,10 (16:10-18:00) V201

http://mail.tku.edu.tw/myday

2013-11-07
## Course Schedule (1/3)

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Subject/Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2013/09/19</td>
<td>Mid-Autumn Festival (Day off)</td>
</tr>
<tr>
<td>2</td>
<td>2013/09/26</td>
<td>Course Orientation and Introduction to Social Media and Mobile Apps Programming</td>
</tr>
<tr>
<td>3</td>
<td>2013/10/03</td>
<td>Introduction to Android / iOS Apps Programming</td>
</tr>
<tr>
<td>4</td>
<td>2013/10/10</td>
<td>Double Tenth Day (Day off)</td>
</tr>
<tr>
<td>5</td>
<td>2013/10/17</td>
<td>Developing Android Native Apps with Java (Eclipse) (MIT App Inventor)</td>
</tr>
<tr>
<td>6</td>
<td>2013/10/24</td>
<td>Developing iPhone / iPad Native Apps with Objective-C (Xcode)</td>
</tr>
</tbody>
</table>
# Course Schedule (2/3)

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Subject/Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 7</td>
<td>2013/10/31</td>
<td>Mobile Apps using HTML5/CSS3/JavaScript</td>
</tr>
<tr>
<td>• 8</td>
<td>2013/11/07</td>
<td>jQuery Mobile</td>
</tr>
<tr>
<td>• 9</td>
<td>2013/11/14</td>
<td>Create Hybrid Apps with Phonegap</td>
</tr>
<tr>
<td>• 10</td>
<td>2013/11/21</td>
<td>Midterm Exam Week (Midterm Project Report)</td>
</tr>
<tr>
<td>• 11</td>
<td>2013/11/28</td>
<td>jQuery Mobile/Phonegap</td>
</tr>
<tr>
<td>• 12</td>
<td>2013/12/05</td>
<td>Invited Talk: Social, Mobile and Business Model in PIXNET [Invited Speaker: Dr. Rick Cheng-Yu Lu]</td>
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</tbody>
</table>
**Course Schedule (3/3)**

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Subject/Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>2013/12/12</td>
<td>Google App Engine and Google Map API</td>
</tr>
<tr>
<td>14</td>
<td>2013/12/19</td>
<td>Facebook API (Facebook JavaScript SDK) (Integrate Facebook with iOS/Android Apps)</td>
</tr>
<tr>
<td>15</td>
<td>2013/12/26</td>
<td>Twitter API</td>
</tr>
<tr>
<td>16</td>
<td>2014/01/02</td>
<td>Case Study on Social Media Apps Programming and Marketing in Google Play and App Store</td>
</tr>
<tr>
<td>17</td>
<td>2014/01/09</td>
<td>Final Project Presentation</td>
</tr>
<tr>
<td>18</td>
<td>2014/01/16</td>
<td>Final Exam Week (Final Project Report)</td>
</tr>
</tbody>
</table>
Outline

• jQuery Mobile
  – JavaScript Library
  – jQuery
  – jQuery UI

• Demo
  – Building Mobile Apps with jQuery Mobile
Android /iOS Apps Programming

Native Apps

Hybrid Apps

Mobile Web Apps
Learn HTML5 and JavaScript for iOS: Web Standards-based Apps for iPhone, iPad, and iPod touch, Scott Preston, Apress, 2012
jQuery Mobile

jQuery Mobile: Touch-Optimized Web Framework for Smartphones & Tablets

A unified, HTML5-based user interface system for all popular mobile device platforms, built on the rock-solid jQuery and jQuery UI foundation. Its lightweight code is built with progressive enhancement, and has a flexible, easily themeable design.

Latest stable version - 1.3.2
Legacy versions: 1.2.1 - 1.1.2 - 1.0.1

Seriously cross-platform with HTML5

jQuery mobile framework takes the “write less, do more” mantra to the next level: Instead of writing unique apps for each mobile device or OS, the jQuery mobile framework allows you to design a single highly-branded web site or application that will work on all popular smartphone, tablet, and desktop platforms. Device support

http://jquerymobile.com/
jQuery Mobile

• Touch-Optimized Web Framework for Smartphones & Tablets
  – A unified, HTML5-based user interface system for all popular mobile device platforms
  – built on the rock-solid jQuery and jQuery UI foundation.
  – Its lightweight code is built with progressive enhancement, and has a flexible, easily themeable design.

Source: http://jquerymobile.com/
What is jQuery?

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

Who's Using jQuery

http://jquery.com/
jQuery

• jQuery is a fast, small, and feature-rich JavaScript library.

• jQuery is the most popular JavaScript library – versatility and extensibility

• It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers.

Source: http://jquery.com/
jQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library. Whether you're building highly interactive web applications or you just need to add a date picker to a form control, jQuery UI is the perfect choice.

What's New in jQuery UI 1.10?

jQuery UI 1.10 includes dozens of bug fixes and improved accessibility. In addition, the dialog and progressbar widgets have undergone API redesigns, making them easier to use and creating more consistency across plugins.

Interested in the full details of what changed? Check out the 1.10 upgrade guide, 1.10.0 changelog, 1.10.1 changelog, and 1.10.2 changelog, and 1.10.3 changelog.

http://jqueryui.com/
jQuery Mobile

• Seriously cross-platform with HTML5
• write less, do more

Source: http://jquerymobile.com/
<DOCTYPE html>
<html>
  <head>
    <title>Mobile App Title</title>
    <meta charset=utf-8 />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
    <link type="text/css" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel="stylesheet" />
    <script type="text/javascript" src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"></script>
  </head>
  <body>
  </body>
</html>
jQuery Mobile: Mobile Graded Browser Support

• jQuery Mobile has broad support for the vast majority of all modern desktop, smartphone, tablet, and e-reader platforms.

• A-grade – Full enhanced experience with Ajax-based animated page transitions.
  – Apple iOS 3.2*-6.1
    • Tested on the original iPad (4.3 / 5.0), iPad 2 (4.3 / 5.1 / 6.1), iPad 3 (5.1 / 6.0), iPad Mini (6.1), 3GS (4.3), 4 (4.3 / 5.1), and 4S (5.1 / 6.0), and 5 (6.0)
  – Android 2.1-2.3, 3.2, 4.0, 4.1-4.2 (Jelly Bean)
    • Tested on the HTC Incredible (2.2), original Droid (2.2), HTC Aria (2.1), Google Nexus S (2.3).
    • Tested on a Galaxy Nexus and Galaxy 7

jQuery Mobile: Original Graded Browser Matrix

<table>
<thead>
<tr>
<th>Platform</th>
<th>Version</th>
<th>Native</th>
<th>Opera Mobile</th>
<th>Opera Mini</th>
<th>Fennec</th>
<th>Ozone</th>
<th>Netfront</th>
<th>Phonegap</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>8.5</td>
<td>8.65</td>
<td>9.5</td>
<td>10.0</td>
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<td>A</td>
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<tr>
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<td>C</td>
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<tr>
<td>Symbian Platform</td>
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<td>A</td>
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</tr>
</tbody>
</table>

codiga: drag-and-drop builder for mobile apps

Easy to use: Try it now!

jQuery Mobile's emphasis on semantic markup and progressive enhancement makes it super easy to use. If you know basic HTML, you can start building mobile sites right away. Try this cool drag-and-drop UI builder to explore what the library can do, or check out some of the resources below to learn more.

Demos & documentation  Resources: Books, plugins, tutorials  

Source: http://jquerymobile.com/
codiqa: drag-and-drop builder for mobile apps

Build great mobile apps, the easy way.

Codiga is a powerful drag-and-drop builder for creating cross-platform mobile apps and websites. It's simple, easy to use, and so damn useful.

Get started now! ▶ Or try the demo

https://codiqa.com/
Welcome to Codiqa!

Try dragging some elements from the left over here.
You can also add pages, and link buttons to them, like below!
This is just a simple demo, upgrade to the full version to get a lot more!
Codiqa Components

- Page Header
- Page Footer
- Tab Bar
- Form
- Text Input
- Photo Input
- Nav Bar
- Button
- Link
- Browse...
- Search Input
- Date Input
- Panel
- Image
- YouTube
- File Input
- Toggle Switch
- Slider
- Vimeo
- Map
- Heading
- Text Area
- Radio Buttons
- Checkboxes
- Divider
- Text
- HTML
- Select Menu
- Submit Button
- Collapsible
- Grid
- List View

https://codiqa.com/demo
<!-- Home -->
<div data-role="page" id="page1">
  <div data-theme="b" data-role="header">
    <h3>
      Header
    </h3>
  </div>
  <div data-role="content">
    <div style="">
      <img style="width: 50%; height: 50%" src="http://mail.tku.edu.tw/myday/image.jpg">
    </div>
    <a data-role="button" href="#page1">
      Button
    </a>
  </div>
  <div data-theme="a" data-role="footer" data-position="fixed">
    <h3>
      Footer
    </h3>
  </div>
</div>

Source: http://jquerymobile.com/
<!DOCTYPE html>

<!-- Home -->

<div data-role="page" id="page1">
  <div data-theme="b" data-role="header">
    <h3>Tamkang U.</h3>
  </div>
  <div data-role="content">
    <img src="https://maps.googleapis.com/maps/api/staticmap?center=No.151, Yingzhou, Taiwan, TW, 22040, China&zoom=14&size=288x200&key=AIzaSyB08zF4v2QwU0y_gXpLHmZGvE6LxQjgUv8" />
    <a data-role="button" href="#page1">Button</a>
  </div>
  <div data-theme="b" data-role="footer" data-position="fixed">
    <h3>Footer</h3>
  </div>
</div>
Tamkang U.

Button

Footer
<html>
<head>
  <link href="http://code.jquery.com/mobile/latest/jquery.mobile.css" rel="stylesheet" type="text/css"/>
  <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
  <script src="http://code.jquery.com/mobile/latest/jquery.mobile.js"></script>
  <meta charset=utf-8/>
  <title>JS Bin</title>
</head>
<body>
  <div data-role="page" id="page1">
    <div data-theme="b" data-role="header">
      <h3>
        Tamkang U.
      </h3>
    </div>
    <div data-role="content">
           width="288" height="200">
      <a data-role="button" href="#page1">
        Button
      </a>
    </div>
    <div data-theme="b" data-role="footer" data-position="fixed">
      <h3>
        Footer
      </h3>
    </div>
  </div>
</body>
</html>
Get inspired: Built with jQuery Mobile

Source: http://jquerymobile.com/
http://m.stanford.edu/
Mobile website for Stanford University
http://m.stanford.edu

http://www.jqmgallery.com/2011/06/10/stanford/
<div data-role="page" id="first" data-theme="b">
  <div data-role="header">
    <h1>Page Header</h1>
  </div>
  <div data-role="content">
    <p>Page content goes here.</p>
    <a href="#second">Go to second page</a>
  </div>
  <div data-role="footer" data-position="fixed">
    <h4>Page Footer</h4>
  </div>
</div>
data-role="button"

Star button

Source: http://view.jquerymobile.com/1.3.2/dist/demos/intro/
<ul data-role="listview" data-inset="true" data-filter="true">
    <li><a href="#">Acura</a></li>
    <li><a href="#">Audi</a></li>
    <li><a href="#">BMW</a></li>
    <li><a href="#">Cadillac</a></li>
    <li><a href="#">Ferrari</a></li>
</ul>
ListView Example

ListView Example

```html
<div data-role="page">
  <header data-role="header" data-theme="b">
    <h1>List Example</h1>
  </header>
  <section data-role="content">
    <h1>Basic List</h1>
    <ul data-role="listview">
      <li><a href="#">Link 1</a></li>
      <li><a href="#">Link 2</a></li>
    </ul>

    <h1>List with Counts</h1>
    <ul data-role="listview">
      <li><a href="#">Link 1</a><span class="ui-li-count ui-btn-up-c ui-btn-corner-all">11</span></li>
      <li><a href="#">Link 2</a><span class="ui-li-count ui-btn-up-c ui-btn-corner-all">22</span></li>
    </ul>

    <h1>List with Thumbnails</h1>
    <ul data-role="listview">
      <li><a href="index.html" class="ui-link-inherit">
          <img src="staufs_thumb.jpg" class="ui-li-thumb">
          <h3 class="ui-li-heading">Staufs</h3>
          <p class="ui-li-desc">Staufs Coffee</p>
        </a></li>
      <li><a href="index.html" class="ui-link-inherit">
          <img src="vino-vino_thumb.jpg" class="ui-li-thumb">
          <h3 class="ui-li-heading">Vino Vino</h3>
          <p class="ui-li-desc">Vino Vino Restaurant</p>
        </a></li>
    </ul>
  </section>
</div>
```

<form>
  <label for="textinput-s">Text Input:</label>
  <input type="text" name="textinput-s" id="textinput-s" placeholder="Text input" value="" data-clear-btn="true">
  <label for="select-native-s">Select:</label>
  <select name="select-native-s" id="select-native-s">
    <option value="small">One</option>
    <option value="medium">Two</option>
    <option value="large">Three</option>
  </select>
  <label for="slider-s">Input slider:</label>
  <input type="range" name="slider-s" id="slider-s" value="25" min="0" max="100" data-highlight="true">
</form>
data-theme="a"

Source: http://view.jquerymobile.com/1.3.2/dist/demos/intro/
data-icon="star"

Custom Icons

.ui-icon-myapp-email {
  background-image: url("app-icon-email.png");
}

white icon
18x18 pixels
PNG-8 with alpha transparency

Source: http://view.jquerymobile.com/1.3.2/dist/demos/widgets/icons/
jQuery Mobile Icon Pack

1. Choose your icons  Click to add to your set. Clear

2. Preview your icon set
Click an icon to remove it.

- icon-envelope
- icon-heart
- icon-tag
- icon-comments
- icon-heart-empty
- icon-google-plus
- icon-comment-alt
- icon-html5
- icon-css3

3. Download  
(CSS, LESS & SCSS files)

Having trouble building your custom icon set? 
Let me know about it.

Source: http://jqmiconpack.andymatthews.net/
ThemeRoller for jQuery Mobile

http://jquerymobile.com/themeroller/
ThemeRoller for jQuery Mobile

http://jquerymobile.com/themeroller/
Demo
Building Mobile Apps with jQuery Mobile

http://jsbin.com
Mobile Myday

Min-Yuh Day

Vita

Dr. Min-Yuh Day is an Assistant Professor in the Department of Information Management at Tamkang University, Taiwan. Prior to joining the faculty at TKU in 2011, he was a Postdoctoral Fellow in the Intelligent Agent Systems Lab, Institute of Information Science, Academia Sinica.

Ph.D.
Department of Information Management, National Taiwan University, 2006-2010
Dissertation: A Study of Evaluation

M.B.A.
Department of Information Management, National Taiwan University, 2000-2001

B.B.A.
Department of Information Management, National Taiwan University, 1997-1999

http://jsbin.com/IwOMezo
Online Editor: http://jsbin.com
CompileOnline: Try jQueryMobile Online

http://www.compileonline.com/try_jquerymobile_online.php
<!DOCTYPE html>
<html>
<head>
  
  <title>Min-Yuh Day Mobile App</title>
  <meta charset=utf-8 />
  <meta name=viewport content="width=device-width, initial-scale=1" />
  
  <script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
  
  <link type=text/css href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel=stylesheet />
  
  <script type=text/javascript src="http://code.jquery.com/mobile/latest/jquery.mobile.min.js"></script>
</head>

<body>
  
  <div data-role=page id=MyHome data-theme=b>
    <div data-role=header data-theme=b>
      <h1>Min-Yuh Day</h1>
    </div><!-- /header -->
    
    <div data-role=content>
      <div style=text-align:center;
        
        <img style=width: 50%; height: 50% src=http://mail.tku.edu.tw/myday/images/Myday_Photo.jpg>
        
        <ul data-role=listview data-inset=true data-filter=true>
          <li><a href=#Vita>Vita</a></li>
          <li><a href=#Education>Education</a></li>
          <li><a href=#Research>Research</a></li>
          <li><a href=#Publications>Publications</a></li>
          <li><a href=#Teaching>Teaching</a></li>
          <li><a href=#ProfessionalActivities>Professional Activities</a></li>
        </ul>
        
        <a href=http://mail.tku.edu.tw/myday data-role=button data-icon=star>Classic Web</a>
      
    </div><!-- /content -->
    
    <div data-role=footer data-position=fixed data-theme=b>
      <p>Mobile Myday © 2013</p>
    </div><!-- /footer -->
  </div><!-- /page MyHome -->

  <div data-role=page id=Vita data-add-back-btn=true data-theme=b>
    
  </div><!-- /page Vita -->

  <script src=jsbin.com/1wOMezo></script>
</body>
</html>
<!DOCTYPE html>
<html>
<head>
<title>Min-Yuh Day Mobile App</title>
<meta charset=utf-8 />
<meta name=viewport content="width=device-width, initial-scale=1" />
<script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
<link type="text/css" href="http://code.jquery.com/mobile/latest/jquery.mobile.min.css" rel="stylesheet" />
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http://jsbin.com/IwOMezo
Min-Yuh Day

Vita

Education

Research

Publications

Teaching

Professional Activities

Classic Web
Dr. Min-Yuh Day is an Assistant Professor in the Department of Information Management at Tamkang University, Taiwan. ...."
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      <h3 class="ui-li-heading">Ph.D.</h3>
      <p class="ui-li-desc">Department of Information Management, National Taiwan University, 2001-2010</p>
    </a>
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  <li>
    <a href="#" class="ui-link-inherit">
      <h3 class="ui-li-heading">M.B.A.</h3>
      <p class="ui-li-desc">Department of Information Management, Tamkang University, 1993-1995</p>
    </a>
  </li>
  <li>
    <a href="#" class="ui-link-inherit">
      <h3 class="ui-li-heading">B.B.A.</h3>
      <p class="ui-li-desc">Department of Information Management, Tamkang University, 1989-1993</p>
    </a>
  </li>
</div>
Mobile Myday

Dr. Min-Yuh Day is an Assistant Professor in the Department of Information Management at Tamkang University, Taiwan. Prior to joining the faculty at TKU in 2011, he was a Postdoctoral Fellow in the Intelligent Agent Systems Lab, Institute of Information Science, Academia Sinica.

Ph.D. Department of Information Management, National Taiwan University, 2001-2010
Dissertation: A Study of Evaluation

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Mobile Myday

http://mail.tku.edu.tw/myday/m
Myday Research

- Research Interests
  - Social Media Service
  - Mobile Apps Marketing
  - Data Mining and Text Mining
  - Business Intelligence
  - Big Data Analytics
  - Information Systems Evaluation
  - Question Answering Systems
  - Knowledge Management
  - Electronic Commerce
  - Learning Technology
  - Intelligent Information Systems
  - Biomedical Informatics

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Myday Teaching

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  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1021SMAP" rel="external">Social Media Apps Programming</a> (Fall 2013)</li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1021CSIM4B" rel="external">Case Study for Information Management</a> (Fall 2013)</li>
  <li data-role="list-divider" data-theme="c">Spring 2013 (2013.02-2013.06) <span class="ui-li-count">4</span></li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1012BIT" rel="external">Business Intelligence Trends</a> (Spring 2013)</li>
  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1012SMMM" rel="external">Social Media Marketing Management</a> (Spring 2013)</li>
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  <li><a href="http://mail.tku.edu.tw/myday/teaching.htm#1012ISM" rel="external">The Issue of Information Security Management</a> (Spring 2013)</li>
</ul>
Summary

• jQuery Mobile
  – JavaScript Library
  – jQuery
  – jQuery UI

• Demo
  – Building Mobile Apps with JQuery Mobile
References

• Learn HTML5 and JavaScript for iOS: Web Standards-based Apps for iPhone, iPad, and iPod touch, Scott Preston, Apress, 2012

• jQuery Mobile