MET CS 701 -- Rich Internet Application Development

Instructor

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Course Description

The Rich Internet Application (RIA) Development course concentrates primarily on building rich client web applications in the browser for desktop and mobile devices. The course is divided into various modules covering in depth the following technologies: HTML5, jQuery UI & Mobile, and AngularJS. Along with the fundamentals underlying these technologies, several applications will be showcased as case studies. Students work with these technologies starting with simple applications and then examining real world complex applications. At the end of this course, students would have mastered the latest and widely used RIA methodologies.

Course Prerequisites

CS520 (Information Structures) and CS601 (Web Application Development)

Course Grading Policy

The course grade will be based on active class participation and discussions (10%), programming assignments (30%), proctored final exam (30%), and a term project (30%). Assignments are expected to be submitted by their respective due dates. Late submissions carry a penalty.

Course Web Site

http://onlinecampus.bu.edu/

On the Web

- HTML5 Rocks
- jQuery Mobile Framework
- AngularJS

References

- "jQuery UI", by Eric Sarrion, O'Reilly, 2012.
# Tentative Course Schedule

## Module 1 (HTML5, Part1)
- Overview of HTML5
- Canvas and Scalable Vector Graphics
- Audio and Video
- Geolocation
- Forms
- Drag and Drop

Week 1

## Module 2 (HTML5, Part2)
- Communication
- Web Sockets
- Web Workers
- Web Storage
- Offline Web Applications

Week 2

## Module 3 (jQuery UI)
- jQuery Review
- Controls
- Drag and Drop

Week 3

## Module 4 (jQuery Mobile)
- Navigation
- Form Elements and Lists
- Views
- Server Integration Techniques

Week 4

## Module 5 (AngularJS, Part1)
- Model-View-Controller pattern
- Data Binding
- Creating Views
- Defining Controllers
- Building Models

Week 5

## Module 6 (AngularJS, Part2)
- Templates
- Modules, Directives
- Server Integration

Week 6

## Project Presentations

## Proctored Final Exam