Lecture #0

NEWM N510: Web-Database Concepts

Course Organization

kharrazi@iupui.edu
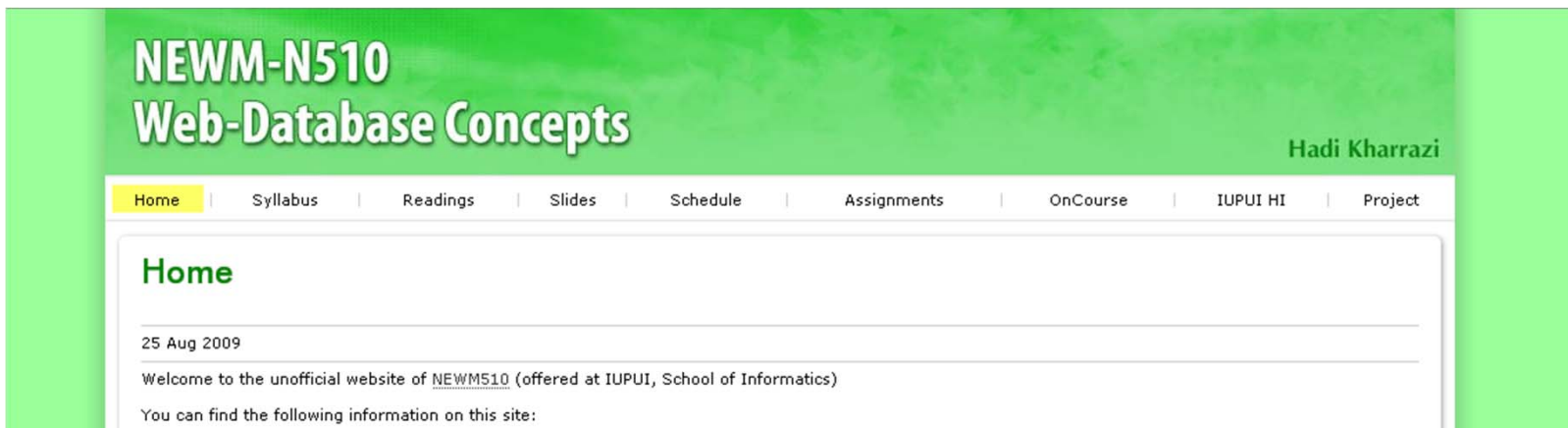http://www.info510.com

Welcome

- Course Title
  - Web-Database Concepts

- Course Description
  - This course addresses diverse issues arising when designing World-Wide-Web interface. Basic database concepts will be presented but the course will focus on discussion of interface issues specific to web databases, technologies for linking databases to web servers for delivery, discussion of various web-database applications, case studies, and industry trends.

- Audience
  - First year health informatics students
  - Senior New Media and HCI students

- Website
  - OnCourse & www.info510.com

Course Website

OnCourse: https://oncourse.iu.edu/portal/site/FA11-IN-NEWM-N510-17968
Unofficial: http://info510.com

1. **Resources:** Includes some useful resources to use in your course project.

2. **Slides:** You can find the slides used in the course in this section. The slides are not the final versions and some changes may apply.

3. **Schedule:** It shows the outline schedule of the course. This schedule is always synchronized with the schedule available on onCourse.

4. **Project:** This section includes the information you will need to do your project.

Syllabus

NEWM510: Web-Database Concepts
Fall 2011
Lab Based Class / 3 Credits
IUPUI, School of Informatics

Instructor	Hadi Kharrazi
Office Address	IT 593
Office Phone	317-278-7668
Office Hours	Mondays (18:00-21:00) - By appointment
Email Address	kharrazi@iupui.edu

Class (Lab) Location	IT 357
Class (Lab) Times	Tuesdays 6:00 PM - 8:40 PM
Credit hours	3
Curriculum placement	Elective course for MS in New Media, Health Informatics or HCI Required course for Health Informatics students without IT background
Prerequisites/Co-requisites	None
Website(s)	https://oncourse.iu.edu/portal/site/FA11-IN-NEWM-N510-17968 http://info510.com

Syllabus cont.

Course Description

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Course Objectives, Competencies and Outcomes

Upon the successful completion of the course, the student should be able to:

- Explain the client-server structure and its relationship to web based languages and database management systems
- Design, implement, integrate and analyze relational databases within a web-server environment
- Comprehend client-side and server-side programming skills including design, coding, implementation and integration with a relational database
- Analyze the state of the science and current research issues related to the web-database concepts in a specific field
- Characterize different domains of web applications and database systems
- Evaluate a given web application based on different criteria such as structure, dynamics, security, embedded systems and interactivity

Schedule

wk	day	date	#	module	assign. posted	assign. deadline	q. posted	q. deadline	notes	reading
00	Tue	23-Aug	-	Course Organization »						Syllabus
01	Tue	23-Aug	1	Intro to Web-Database »	Assignment 01					Reading 01
02	Tue	30-Aug	2	MySQL (1) »			Quiz 01			Reading 02
03	Tue	06-Sep	3	MySQL (2) »	Assignment 02	Assignment 01		Quiz 01	Ans Q1	Reading 03
04	Tue	13-Sep	4	MySQL (3) »			Quiz 02			Reading 04
05	Tue	20-Sep	5	HTML (1) »				Quiz 02	Feedback 1 / Ans Q2	Reading 05
06	Tue	27-Sep	6	HTML (2) »	Assignment 03	Assignment 02	Quiz 03			Reading 06
07	Tue	04-Oct	7	HTML (3) »				Quiz 03	Ans Q3	Reading 07
08	Tue	11-Oct	8	XML »	Quiz 04					Reading 08
09	Tue	18-Oct	A	Semantic Web » (no class)					Fall Break	Reading A
10	Tue	25-Oct	9	PHP (1) »	Assignment 04	Assignment 03		Quiz 04	Feedback 2 / Ans Q4	Reading 09
11	Tue	01-Nov	10	PHP (2) »			Quiz 05			Reading 10
12	Tue	08-Nov	11	PHP (3) »	Assignment 05	Assignment 04		Quiz 05	Ans Q5	Reading 11
13	Tue	15-Nov	12	PHP (4) »			Quiz 06			Reading 12
14	Tue	22-Nov	B	Web Security » (attend. opt.)		Assignment 05		Quiz 06	Feedback 3 / Ans Q6	Reading B
15	Tue	29-Nov	13	Reviews - Problem Solving »					Course Evaluation	
16	Tue	06-Dec	14	Final Project Presentation »						
17	Tue	13-Dec	-	No class					Project Submission	

Course schedule is subject to change without notice.
Please check this website (www.info510.com) for the latest updates.

Readings

Web

Topic	HTML/CSS/XML	
Website (1)	Title	W3Schools – HTML/CSS and XML
	Type	Educational
	Web Link	http://www.w3schools.com/html/default.asp http://www.w3schools.com/css/default.asp http://www.w3schools.com/xml/default.asp
Website (2)	Title	W3C - The World Wide Web Consortium
	Type	Reference
	Web Link	http://www.w3.org/

Topic	PHP	
Website (1)	Title	W3Schools - PHP
	Type	Educational
	Web Link	http://www.w3schools.com/php/default.asp
Website (2)	Title	The PHP Group
	Type	Reference
	Web Link	http://www.php.net/

Topic	MySQL	
Website (1)	Title	W3Schools - SQL
	Type	Educational
	Web Link	http://www.w3schools.com/sql/default.asp
Website (2)	Title	MySQL AB, Sun Microsystems, Inc
	Type	Reference
	Web Link	http://www.mysql.com/

Readings cont.

e-Books

Topic	HTML/CSS/XML	
e-Book (1)	Title	Head First HTML with CSS & XHTML
	Authors	Elisabeth Robson; Eric Freeman
	Safari L	
	ISBN	
e-Book (2)	Title	
	Author	
	Safari L	
	ISBN	
e-Book (3)	Title	
	Author	
	Safari L	
	ISBN	

Topic	PHP Language / PHP-MySQL Integration	
e-Book (1)	Title	PHP Cookbook, 2nd Edition
	Authors	Adam Trachtenberg; David Sklar
	Safari Link	http://proquest.safaribooksonline.com/0596101015
	ISBN	978-0-596-10101-5
e-Book (2)	Title	Programming PHP, 2nd Edition
	Authors	Kevin Tatroe; Rasmus Lerdorf; Peter MacIntyre
	Safari Link	http://proquest.safaribooksonline.com/0596006810
	ISBN	978-0-596-00681-5
e-Book (3)		

Topic	MySQL	
e-Book (1)	Title	Head First SQL
	Authors	Lynn Beighley
	Safari Link	http://proquest.safaribooksonline.com/9780596526849
	ISBN	978-0-596-52684-9
e-Book (2)	Title	MySQL in a Nutshell, 2nd Edition
	Authors	Russell Dyer
	Safari Link	http://proquest.safaribooksonline.com/9780596514334
	ISBN	978-0-596-51433-4

http://ulib.iupui.edu/cgi-bin/proxy.pl?url=http://proquest.safaribooksonline.com/?uicode=iupui

Assessment

#	Assignment	Percent
1	Assignments #1 to #5 (each 5 points)	25
2	Quizzes #1 to #6 (each 5 point)	30
3	Final Project	35
4	Participation (class discussion and weekly meetings)	10
	Total	100

Grading Scale

Grade	Percentage
A+	97-100
A	93-96
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	70-76
C-	60-69
D	50-59
F	0-50

Final Project

Will be discussed as the course evolves...