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PRINT VERSION

SYLLABUS

CSci457 Electronic Commerce Systems

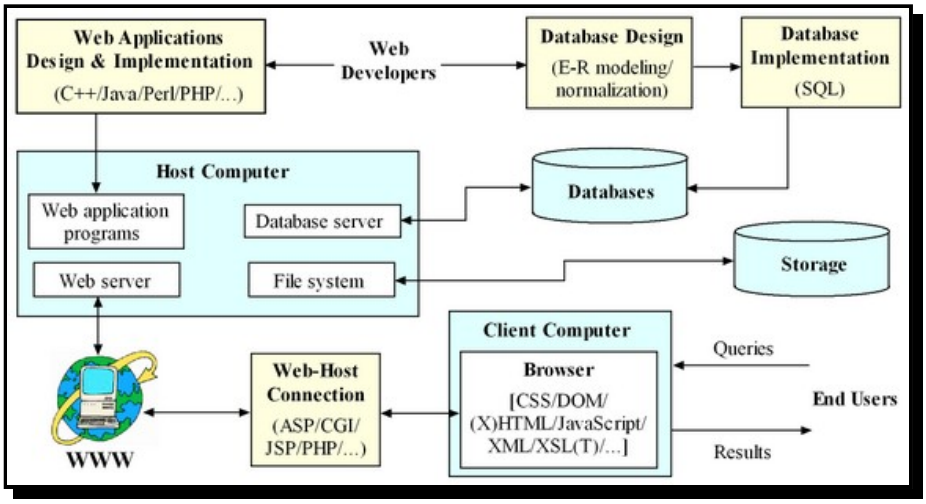
(a programming-intensive and no-nonsense course)
Department of Computer Science, University of North Dakota
Spring 2017

Class times:	03:00pm – 03:50pm, MoWeFr
Classroom:	Streibel Hall 108
Credit hours:	3
Prerequisite:	CSci260 .NET and Web Programming
Class pages:	http://wenchen.cs.und.edu/course/457/
Instructor:	Wen-Chen Hu (my teaching philosophy)
Email:	wenchen@cs.und.edu
Office:	Streibel Hall 212
Office hours:	11:00am – 12:00noon, MoTuWeThFr
Remark I:	Definitions, terminologies, and theories will be discussed minimally in this course. Instead practical works and programming knowledge will be emphasized and enforced.
Remark II:	This is an advanced web course using LAMP (Linux, Apache, MySQL, and PHP). For a fundamental web course, check CSci260 .NET and Web Programming using ASP.NET and Access databases.

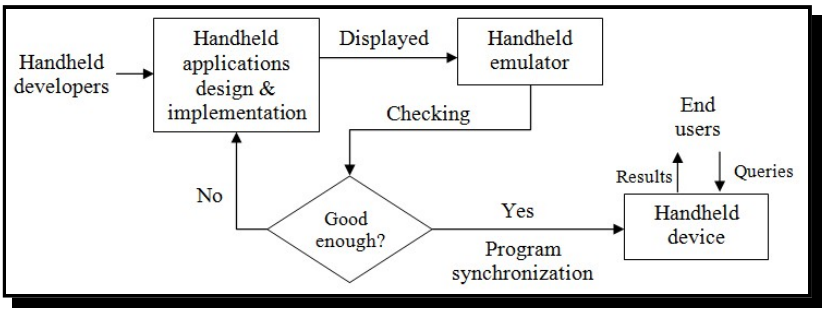
DESCRIPTION: This course gives an advanced study of electronic/mobile commerce system architecture and electronic/mobile commerce content design and implementation. It is a programming-intensive course and each student is required to design and implement several web and native mobile app programming exercises on her/his own. Topics include, but are not limited to:

- Internet basics,
- business issues,
- dynamic web programming,
- mobile computing,
- e/m-commerce content design and construction,
- web/mobile-app -host-database connection,
- databases & structured query language (SQL), and
- some other special topics.

A Generic Structure of Database-Driven Web System —



Client-Side Mobile/Handheld Programming Steps —



OBJECTIVES: After taking this course, students are able to achieve the following goals, but not limited to:

- Knowledge of PHP language principles,
- Fundamental knowledge of MySQL databases,
- Knowledge of LAMP environment principles,
- Knowledge of Android Java language principles,
- Knowledge of Android Studio environment principles,
- Proficiency in web contents design and development, and
- Knowledge of AJAX technologies.

LECTURE NOTES: No textbook will be used. Instead detailed and precise class instructions and interactive, informative, and practical lecture notes (based on W3Schools and other online documents and user manuals) will be provided. Collectively, the lecture notes and instructions are more like a small book, which supplies much more information than regular notes do. Students will not have problem learning the subjects or taking the exams after studying them and doing programming exercises.

EVALUATION:

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Three programming exercises
  1. Electronic commerce system  —  12%
  2. Mobile commerce system      —  12%
  3. AJAX                        —  12%
Two exams                        —  18% each
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Final exam                    ——  18%
Attendance                    ——  10% (counted every class)
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TENTATIVE SCHEDULE:

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Week        1  ——  Introduction
Week        2  ——  Programming Exercise I
Weeks  3 -  4  ——  PHP
Weeks  5 -  6  ——  Databases and PHP
Weeks  7 - 11  ——  Handheld (Android) computing
Weeks 12 - 16  ——  AJAX technologies
Week       17  ——  E-commerce and m-commerce concepts
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DISHONESTY: Under no circumstances will acts of academic dishonesty be tolerated. Any suspected incidents of dishonesty will be promptly referred to the Assistant Dean of Students. Refer to the Code of Student Life, Appendix B.2: Academic Dishonesty.

DISABILITY: Students who need special accommodations for learning or who have special needs are invited to share these concerns or requests with the instructor as soon as possible.

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