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CS568: Web Application Development 1

Thao Huy Vu, M.S.

Course Overview

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Theme I: React Basics - Components, Props, States - Life is structured in layers						
Week 1	JavaScript ES6 Overview	React Components & Props	State & Lifecycle	List & Style Midterm Review	Workshop 1	Self-Review
Theme II: Deeper into React - The Nature of Life is to Grow						
Week 2	Midterm Exam	Hooks	Hooks (continued)	Form	SPA & Routing Workshop 2	Workshop 2 (continued)
Theme III: Routing, Form/Validation, React Context - Purification Leads to Progress						
Week 3	React Context Workshop2 - solution	Workshop 3	Fetch & Axios & Final Review	Workshop 4	Project	Project
Theme IV: Integrating all parts together - The Whole is Greater than the Sum of the Parts						
Week 4	Project	Project Presentation	Self-Review	Final Exam		

CS568
Web Application Development I
The evolution of the individual and the evolution of the environment are naturally interdependent

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COURSE GOAL

This course aims to equip students with a comprehensive understanding of React. By the course's end, students will grasp core concepts such as components, state, props, functional components, hooks, and the virtual DOM, enabling them to create reusable UI components. The course will emphasize best practices, coding standards, and project management, preparing students to become proficient React developers and adapt to the evolving React ecosystem.

Course Objectives

React is one of the most loved and popular JS libraries for building front-end web applications. Students will learn React and its vital concepts that help students succeed in the IT industry by working on a project and various applications in class. Topics include:

- *Explore modern JavaScript (ES6)*
- *Develop UI with declarative JSX*
- *Create components, decompose UI*
- *Learn how to manage state*
- *Study routing in React Applications*
- *Connect React App with the backend application to create the full software system*

Evaluation Criteria

Midterm Exam   30%

Final Exam	40%
Project	15%
Homework	15%

Grading scale

A 92 - 100
A- 88 - 91
B+ 84 - 87
B 79 - 83
B- 75 - 78
C+ 71 - 74
C 66-70
C- 62-65
NC 0 - 61

Contact Info

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McLaughlin #209

Class Attendance Requirements

1. **Class Hours (including 15 minutes meditation before lunch and 20 mintutes meditation after class):**
    a. Morning Session: 10:00 AM – 12:30 PM, Monday – Saturday
    b. Afternoon Session: 1:30 PM – 3:15 PM, Monday – Friday

2. **Attendance Obligation:**
   a. In-person students are required to attend all classes, except under exceptional circumstances.
   b. If you cannot attend a class, you must seek my approval by sending an explanatory email.
3. **Missed Classes:**
   a. Missing three classes without prior approval may warrant consideration of withdrawing from the course.
4. **Homework Submission:**
   a. Failure to submit your first homework solution three times before the deadline (10:00 PM) will result in the loss of all related homework grades.
5. **Punctuality:**
   a. Please arrive on time to prevent any disruptions for fellow students.
6. **Importance of Attendance:**
   a. Attendance is mandatory, as all class components (lectures, discussions, Q&A, labs) contribute to the learning process.
7. **Excused Absences:**
   a. Excused absences are typically granted for illness or family emergencies.
8. **Advance Notice:**
   a. If you anticipate missing a class, please communicate with me beforehand.
9. **First Lesson Importance:**
   a. Attendance is particularly crucial for the first lesson of each course. Students not present on the first morning (excluding valid reasons like illness or family emergencies) may be advised to withdraw.
10. **Unexcused Absences:**
    a. Unexcused absences may result in an NC (No Credit) grade for the entire class.

Your active participation and attendance are key to your successful learning experience. If you have any questions or concerns, please don't hesitate to reach out to me.