

Course Syllabus



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Course Details

Instructor

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[🔗\(https://utexas.zoom.us/j/4308380325\)](https://utexas.zoom.us/j/4308380325)

Course Description

This course introduces the fundamentals of web application development. You will learn to apply heuristic and accessibility principles to create web applications that are user-friendly and accessible to all. You will be walked through all the steps involved in developing a web application such as requirements gathering, designing, coding, testing, deployment, and maintenance. Topics

include, but are not limited to software development life cycle, software requirements, accessibility, user interface design, database management, software testing, and software maintenance. Students will be required to engage in class discussions, complete in-class and homework assignments, give oral presentations, work in small groups, and complete a semester project where they will deliver an artifact at the end.

Pre-requisites for the course

This course assumes students will have some prior knowledge or experience in user experience (UX) and/or human-computer interaction (HCI). No prior programming experience is required.

Learning outcomes

1. Understand the web application development process and its different models
2. Elicit user needs and translate them to requirements
3. Design low and high-fidelity prototypes
4. Write clean and concise code
5. Understand accessibility and how to achieve it in an application
6. Conduct accessibility, usability, and unit tests
7. Deploy and maintain a web application
8. Conduct peer reviews
9. Communicate software products and processes in oral and written form