

INFO 530 Systems Development

Term: Fall 2024

Instructor: Dr. Ugo Etudo

Course Meetings: Mondays & Wednesdays 5:30PM – 6:45PM

Classroom: Snead Hall B2125

Office: Snead Hall B4129

Office Hours: M,W 2PM – 3PM (Other times by appointment)

Course Overview

In this course, students are introduced to modern software development practices through a series of lectures and a months-long practicum. Students will form permanent groups and work as a Scrum team on a software development project. Students will follow an agreed upon Scrum methodology, utilize a version control system and produce a functioning, modern full-stack application at the end of the semester.

This course will de-emphasize lectures in favor of resourcefulness. Students will be expected to independently problem solve using every resource available to them. You are encouraged to use generative AI tools for your code when needed. However, you must never use code that you cannot explain. As a class, we will learn collaboratively and transparently.

Course Objectives

Upon completion of the course, students are expected to:

- 1. Have a strong understanding of Scrum and be exposed to the different roles within a Scrum team.
- 2. Be proficient in the use of Git and GitHub both as a VCS and as a project management tool for Agile teams.
- Have a working understanding of the technical stack undergirding modern Webbased applications
- 4. Obtain proficiency in:
 - a. Javascript
 - b. HTML & CSS
 - c. React.js
 - d. Express.js
 - e. MySQL
- 5. Have experience managing team dynamics professionally and courteously



Course Materials

There are no required texts. Course materials will be shared on the LMS (Canvas)

Course Schedule

Week	Topics	Notes	Assessments
Starting	Topics	Notes	
			Skills Survey is mandatory and must be completed in
8/21/2024	Introduction + Skills Survey		class
8/26/2024	Introduction to Agile: Scrum		
		9/2 (No	Present Initial Product
9/2/2024	Project Brief and Team Assignments	Class)	Backlog
	Systems Development with Git and		
9/9/2024	GitHub		
	Modern Full Stack Development (HTML &		
9/16/2024	CSS Refresher + Node Setup)		
	Modern Full Stack Development		
0/00/0004	(Express & React; Javascript		
9/23/2024	Supplement))		To our or do un our ottrate the six
9/30/2024	Modern Full Stack Development (database refresher)		Teams demonstrate their practice applications (10/2)
9/30/2024	Modern Full Stack Development (More		practice applications (10/2)
10/7/2024	Express, React & Javascript)		
10///2024	Sprint Planning Meeting (Presentation of		Submit Semester Project
10/14/2024	the Project Brief)		Backlog (10/14)
	Weekly Standups; Sprint Retrospective;		Submit completed sprint
10/21/2024	Sprint Planning		backlog #1 (10/21)
	Weekly Standups; Sprint Retrospective;		
10/28/2024	Sprint Planning		
	Weekly Standups; Sprint Retrospective;		Submit completed sprint
11/4/2024	Sprint Planning		backlog #2 (11/6)
	Weekly Standups; Sprint Retrospective;		
11/11/2024	Sprint Planning		
	Weekly Standups; Sprint Retrospective;		Submit completed sprint
11/18/2024	Sprint Planning		backlog #3 (11/20)
11/25/2024	No Class (Fall Break)		
	Weekly Standups; Sprint Retrospective;		Submit completed sprint
12/2/2024	Sprint Planning		backlog #4 (12/4)
			Teams demonstrate their
12/9/2024	Customer Presentation; Product Demo		semester project and submit peer-reviews
12/3/2024	Oustomer riesentation, riodact Dellio		poer-reviews



Assessments

There are several planned assessments in this course, and they are outlined below. Please keep in mind that these assessments may change in composition and quantity as the semester unfolds.

Homework

There are 5 planned homework assignments. The first of these assignments is a completed, practice application using the technical principles learned in the first few weeks of class. The rest of the assignments are completed Sprint backlogs, and other Sprint-related documents.

Examinations

There are no examinations in this course. In lieu of exams, teams will present their completed applications at the end of the semester.

Attendance

All students are expected to attend every class unless excused by the instructor for an approved reason prior to class. Attendance and participation are significant components of the class.

Grading

Assignments will be graded and returned between 1 and 2 weeks from *timely* submission. Below is the distribution of grades across assessments.

Assessment	% Weight	
Practice Application	15%	
Sprint Backlogs (~ 4)	35%	
Attendance & Participation	20%	
Final Presentation	30%	

Important University Notices

Students should visit http://go.vcu.edu/syllabus and thoroughly review all of the listed syllabus statement information. The full university syllabus statement includes information such as safety, registration, the VCU Honor Code, student conduct, withdrawal from courses, and more.