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Fall 2018

CSC 322 Software Engineering

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CUNY City College

NYC Tech-in-Residence Corps

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CCNY: CSC 322 Software Engineering Fall 2018 Syllabus

Instructor

William Chan \ wchan3@ccny.cuny.edu (mailto:wchan3@ccny.cuny.edu)

Office Hours

Time: Wed 5:30pm to 6:15pm ET \ **Location:** TBD

Objective

The goal of this course is to gain experience developing a project using modern software development methodologies and patterns. All from product ideation to creation.

Course Outline

- Learn different software development methodologies
- Work in an *Agile* environment using SCRUM and related methodologies
- Designing the application and UML diagramming the application
- Hands-on experience working on a project with real work scenarios and roles
- Most importantly learn from mistakes and where your team can improve

Grading Policy and Breakdown

Topics	Grade	Due Date
Requirements Gathering Assignment	5%	10/10/2018
Software Development Process Midterm	20%	10/17/2018
UML Diagramming Assignment	5%	11/14/2018
UML Diagramming Midterm	20%	11/14/2018
Final Exam	20%	12/12/2018
Project Presentation + Demo	20%	12/19/2018
360 Reviews	10%	12/19/2018

Project and Presentation Breakdown

1. Product: What problem does your product solve?
2. Planning: What software methodology did you choose? Why? What milestones if any were put in place?
3. Requirements: What were the requirements for your minimal viable product (MVP)? Why?
4. Technical Design: UML diagrams and the high overview of the components in your software
5. Tests: What tests will you have in place to ensure the quality of your application?
6. Demo: Full demo ideally or present what you have and mention why it didn't turn out the way you hoped in your retrospective
7. Retrospective: What worked well and what didn't? What could you have done better knowing what you know now?

For more details, click [here](https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/assignments/presentations.md) (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/assignments/presentations.md) .

360 Reviews Guidelines and Guidance

Each member of the team will grade another member on the team. This is where you honestly grade each other based on contribution. *This will be modeled after the way performance reviews are done at most organizations.*

A grading sheet will be handed out during class before presentations and will be handed in after that class.

Note: Please don't grade individuals purely based on how technical someone else. Please put more emphasis into how proactive they are, how helpful they are and how much they actually contributed. Remember contributions are not always purely technical. Some examples could be, facilitating and helping the team improve communication, etc. *Try to give specific examples.*

1. What did the team member contribute to?

2. How did the team member contribute to the project?
3. Did you feel like the team member was inclusive? What did they do or didn't do to make you feel that way?
4. Would you work with this individual in a professional setting? Why or why not?
5. From a score of 1 to 10 with 10 being the best, how will you grade the team member?

Schedule and Slides

Date	Topic	Slides	
8/29/2018	Introduction to Software Engineering		
9/5/2018	No Class		
9/12/2018	Software Development in Practice	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/software_dev_in_practice.pdf)	
9/19/2018	No Class		
9/26/2018	Software Development Methodologies	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/software_dev_methodologies.pdf)	
10/3/2018	Product Development & Requirements Gathering	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/product_dev_and_requirements.pdf)	
10/10/2018	Software Architecture in Practice	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/software_arch_in_practice.pdf)	
10/17/2018	Software Development Process Midterm		
10/24/2018	UML Diagramming: Use Case Diagram	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/uml_use_case_diagram.pdf)	Requirements (https://github.com/wchan2/)
10/31/2018	UML Diagramming: Sequence Diagram	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/uml_sequence_diagram.pdf)	
11/7/2018	UML Diagramming: Class Diagram	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/uml_class_diagram.pdf)	
11/14/2018	UML Diagramming Midterm		
11/21/2018	Software Testing: Unit Testing and Acceptance Testing	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/software_testing.pdf)	UML (https://github.com/w)
11/28/2018	Continuous Integration & Delivery	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/continuous_integration.pdf)	
12/5/2018	Software Engineering Ethics	Download (https://github.com/wchan2/presentations/blob/master/courses/ccny_csc322_fall_2018/slides/software_eng_ethics.pdf)	
12/12/2018	Final		Extra Credit (https://github.com/wchan2/)
12/19/2018	Presentations		Presentations (https://github.com/wchan2/)

