CSc191 Senior Project (Part II)

California State University, Sacramento (CSUS), Spring 2022, 2 Credits

Class Times & Locations:

Section 1: W, 5:30 PM - 6:20 PM, Online

Section 4: W, 7 PM - 7:50 PM, Online

Your Instructor

Kenneth Elliott

Email: kenneth.elliott@csus.edu

Office Hours:

Friday 9:00am - 10am

via Zoom: **https://csus.zoom.us/j/89507119956** ☐ **(https://csus.zoom.us/j/89507119956)**

Team Rosters

Roster ☐ **(https://docs.google.com/spreadsheets/d/1FDfclcW0SOKFGajkl4frKW3w6_A1Qtx5/edit?
usp=sharing&ouid=115279924518925329362&rtpof=true&sd=true)**

Email Policy

Please email me (grove@csus.edu) directly instead of using Canvas messaging system. Please
check your SacState email at least once a day, in case the instructor or TA reaches out to you
through email. Expect email response will be slow during weekends and holidays.

Catalog Description

Senior Project-Part II. Continuation of the team project begun in CSC 190. Teams apply software
engineering principles to the design, implementation and testing of their software product. All
technical work is published using guidelines modeled after IEEE documentation standards along
with an appropriate user manual. Oral and written reports are required. Senior project is

completed with the successful delivery, installation and demonstration of the software along with all approved documentation.

Prerequisites

1. CSC 190

Course Expectations

1. Teams are expected to self-organize, which requires cooperation and collaboration of all team members throughout the duration of the project.
2. Each team is expected to also collaborate with their project client throughout the duration of the project.
3. Each team is expected to apply the "Agile Principles" and to organize and do the work in accordance with the SCRUM methodology as presented in class.
4. The planning and actual work during CSc 191 is to be scheduled into a series of two-week sprints.
5. In collaboration with the team's client, the uncompleted prioritized Product Backlog features and stories are to be reviewed (and re-prioritized if necessary) prior to the team selecting the number of feature-stories they estimate can be completed in each two-week sprint. These selected feature-stories become the Sprint Backlog.
6. The objective of each sprint is to "finish" the design, development, integration, and testing work associated with the implementation of each of the feature stories included in the Sprint Backlog.
7. "Finish" means that the design and development work has been fully tested and successfully integrated. Work not "complete" is to remain in the Product Backlog until it is selected for a future sprint and "finished".
8. At the end of each sprint the team is to meet with the client to demonstrate the completed (go-live ready) work. The work completed should be assessed by the client, suggested changes discussed and if agreed to, the changes should be prioritized and inserted into the Product Backlog as new unfinished work.
9. At the end of each sprint, the team is to review what was accomplished, what went right, what could have gone better, what improvement(s) could be made in the next sprint, and agree and document their plan for improvement.
10. Each team upon delivery and acceptance of the software is also responsible for providing their client with System Test Report, Maintenance Manual, and User Manual.
11. Reminder: The team is responsible for providing professional quality documentation, both in content and design for all required documentation.
12. The project is to be completed, delivered and accepted by the client on or before Friday of the

12. The project is to be completed, delivered and accepted by the client on or before Friday of the last week of instruction (May 11th, 2022).

13. The CSC Senior Project Showcase will be held on XXX XX, 2022, Xam – noon. Participation is required.

Deliverables

End-of-Sprint Deliverables:	End-of-Semester Deliverables:
1. Properly Maintained Sprint Backlog 2. Properly maintained code repository 3. Properly maintained code repository 4. Bi-weekly sprint execution reports 5. Bi-weekly faculty advisor meeting agenda/minutes 6. Bi-weekly client meeting agenda/minutes	1. A shippable product 2. Oral presentation slides 3. Showcase poster 4. Showcase website 5. User manual 6. Maintenance manual 7. System test report 8. Client's signed acceptance of delivery letter

Attendance and Participation

Attendance will be recorded, but will not count towards the final grade. The level of participation of students will be evaluated using in-class quizzes/activities/discussion. Senior project is a project-driven class, and regular meet-up including lecture and other project-related meeting such as group/lab/client meetings will help the team be on track with their project. Students who are unable to attend lectures or other project-related meetings due to Sac State sponsored activities (such as sports, band, academic competition, field trips, etc.) or personal religious observances may request reasonable accommodations. Please notify the instructor and the team in one week prior to the actual meet-up time regarding potential absences so that we can determine alternative methods for you to complete the required work. For absence due to emergency, students will be required to contact the instructor and submit proof documentation within 4 days after the actual lecture time.

Important Notes: Appropriate in-class behaviors are expected, including but not limited to:

1. Be on time for lectures and lab meetings.
2. Mute your microphone during our Zoom lecture.
3. Stay focused and take notes.
4. Use appropriate language when asking questions or during group discussion.

5. Be considerate for others.

Methods of Evaluation

Here is a break-down on how your final grade will be calculated.

Graded by	Grading Category	Type	Weight
Team	Peer Evaluation	Individual	5%
Instructor	Individual Assignments	Individual	5%
Instructor	Oral Presentation Performance	Individual	10%
Instructor	End-of-semester deliverables	Team-Based	40%
Lab Adviser	Sprint Performance (Attendance + Sprint Performance + End-of-Sprint Deliverables)	Team-based	40%

Grading Scheme

Name	Range
A	100 %
A-	< 94.0 %
B+	< 90.0 %
B	< 87.0 %
B-	< 84.0 %
C+	< 80.0 %
C	< 77.0 %
C-	< 74.0 %
D+	< 70.0 %
D	< 67.0 %
D-	< 64.0 %
F	< 61.0 %

Missed and Late Submission Policy

In-class work missed because of absence will only be accepted if arrangements are made beforehand. For end-of -sprint deliverables, late submission will be accepted within 2 days after due dates, with 25% penalty for eachday. No late submission will be accepted for end-of-semester deliverables. Alternate due dates can be arranged in special circumstances provided these arrangements are made before the due date.

Tentative Schedule

The following schedule is a plan, not a contract. Modifications will be posted on Canvas as the semester progresses.

Week #	Activities	Sprints	Milestones
1 - Jan 26th	Introduction	NA	1. Project housekeeping 2. Setting up development environment
2 - Feb 2nd	Interaction Design Review	Sprint 05	
3 - Feb 9th	Sprint Retrospective	Sprint 05	1. Producing a working UI
4 - Feb 16th	Requirements Changes	Sprint 06	
5 - Feb 23rd	Testing	Sprint 06	1. Producing a working UI + DB 2. Shippable product comes with at least 40% product functionalities
6 - March 2nd	Test Plan	Sprint 07	
			1. Getting a shippable product with at

7 - March 9th	Test Automation	Sprint 07	least 80% functionalities 2. Start working on the test report
8 - March 16th	Continuous Integration, Delivery, & Deployment	Sprint 08	
9 - March 23rd	Spring Break		
10 - March 30th	Deployment & Maintenance	Sprint 08	1. Getting an α-version with 100% product functionalities 2. Conducting system testing
11 - April 6th	General Discussion I	Sprint 09	
12 - April 13th	General Discussion II	Sprint 09	1. Wrapping up all development work 2. Getting a β-version 3. Producing a user manual
13 - April 20th	General Discussion III	Sprint 10	
14 - April 27th	Oral Presentation Session I	Sprint 10	1. Bug fixing & Tuning 2. Getting a stable, ready-to-release version 3. Producing a maintenance manual
15 - May 4th	Oral Presentation Session II	Sprint 11	
16 - May 11th	*Oral Presentation Session III*	Sprint 11	1. Finalizing all documentations & reports 2. Final delivery of the product 3. Senior Project

			3. Senior Project Showcase Dec 10th
17 - May 18th	*Finals Week - No Class*		

University Policies

COVID-19

Please visit the following page for more about CSUS' polices regarding COVID-19:

https://www.csus.edu/student-affairs/emergency-student-information/ ↗

(https://www.csus.edu/student-affairs/emergency-student-information/)

Academic Honesty

If you violate the University's Honor Code (**https://www.csus.edu/umanual/student/stu-0100.htm** ↗ **(https://www.csus.edu/umanual/student/stu-0100.htm)**), you will receive a reduced or failing grade in the course, other penalties may be imposed, and the violation will be reported to the

Student Conduct Officer. Automated tools may be used on any assignment, at any time, to detect inappropriate collaboration and to determine the originality of submissions.

Disability Services

If you have a documented disability and need accommodations in this course, please register with the Office of Services to Students with Disabilities (**https://www.csus.edu/student-affairs/centers-programs/services-students-disabilities** ↗ **(https://www.csus.edu/student-affairs/centers-programs/services-students-disabilities)** /). They will verify your need for services and make recommendations for the course. I will be happy to discuss any accommodations I can

provide to assist your learning with you.

Religious Observation Accommodations

If you cannot satisfy a requirement of the course for religious reasons you must let me know at least two weeks in advance. In some cases you will be required to make up the requirement; in other cases the requirement may be waived with suitable adjustment in grading criteria.

Excused Absences

Students who are unable to attend class due to Sac State sponsored activities (such as sports, band, academic competition, field trips, etc.) or personal religious observances may request reasonable accommodations. Please notify me during the first week of class regarding potential absences so that we can determine alternative methods for you to complete the required work.

Housing & Food Security

If you experience difficulties with financial, housing or food security, please contact Basic Needs Division of Student Affairs (**https://www.csus.edu/student-affairs/crisis-assistance-resource-education-support/** ☐ **(https://www.csus.edu/student-affairs/crisis-assistance-resource-education-support/)**) for assistance.

Parents & Families

If you are students with children, please feel free to let me know your needs. Also, please reach out to Parents & Families Division of Student Affairs (**https://www.csus.edu/student-affairs/centers-programs/parents-families/** ☐ **(https://www.csus.edu/student-affairs/centers-programs/parents-families/)**) for all resources available on campus.