

# **CSCI 4177/5709 — Advanced Topics in Web Development**

## **Group Project Demonstration**

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# 1. Overview

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The final project for this course is to be completed in groups of 4-6 students, **assigned by the instructor**. Once groups are assigned, **no changes in student-group allocation will be made**. This project involves the creation of a web application through the use of Client-Side and Server-Side languages, development Frameworks, and other application and development concepts and techniques discussed in this course. Groups will be expected to assess the suitability of specific techniques, approaches, and tools for the successful completion of this project.

For this project, **you will be required to submit a Project Proposal, Project Report, and a Web Application** which groups will **Demo**. Finally, as part of your project, you will also be expected to submit a **Peer Evaluation** in which you will determine how many points (out of 15) to award to your group mates based on their performance in your group. In the following sub-sections, you will find the list of requirements for each deliverable of your project.

**Purpose.** The purpose of these assignments are to test your comprehension of the various concepts discussed in class, and your ability to apply them to solve a given problem.

**Grades.** Each deliverable will be graded out of 100 points, and will be scaled to 10, and 20 points for the project report, and demo of the prototyped application, respectively.

**Software / Code Editors.** Coded deliverables must be completed **without** the aid of "visual" website generating software. This includes desktop programs such as Dreamweaver or web based programs such as Wix. You can use tools such as Notepad++ / Vi / Vim / Sublime Text, Visual Studio Code, etc.

**Submission.** All deliverables must be submitted on Brightspace (<https://dal.brightspace.com>) and Git Lab (<https://git.cs.dal.ca>).

**Late Submission Policy.** Late assignments are **not** accepted. However, no penalty will be assessed for assignments that are late due to documented situations (See Syllabus).

**Academic Integrity.** Dalhousie academic integrity policy applies to all submissions in this course. You are expected to submit your own work. Please refer to and understand the academic integrity policy, available at: [http://www.dal.ca/dept/university\\_secretariat/academic-integrity.html](http://www.dal.ca/dept/university_secretariat/academic-integrity.html)

**Content for the website.** Do not copy and paste content from any websites into your prototype application. You will have to create your own content to include on your website.

## 2. Project Demonstration

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[10% Group Deliverable]

In order to complete this project you will be required to complete a prototype of a web application, as defined by your group. **You will be demoing this application in a Venture Capitalist ‘idea-pitching’ style presentation.** If any details in regards to your project scope have changed, since your proposal submission, please ensure you address these changes in your **Project Report**.

Taking into consideration time and scheduling, particularly from the students point-of-view, each group will have two options for completing the Project Demonstration requirement. **Groups can choose to do a live project demonstration or submit a pre-recorded project demonstration.** Demo requirements will change slightly depending on the option your group chooses, requirements for each of these options is specified in the following sections.

### Learning Objectives:

1. Allow students with an opportunity to learn from the experiences and approaches of other groups when completing their course project.
2. Demonstrate the approaches, techniques, and skills implemented in the group project.
3. Learn to organize information in a coherent manner when preparing for an ‘idea pitching’ oral presentation.

### Requirements for Live Demo Option:

- D2.1.** Your group will choose a demo presentation time with either a TA or the Instructor for the course, using the “Appointment Booking” links provided on Brightspace.

**Note:** Demos will ONLY take place during the days specified on Brightspace (i.e., the start date and due date of the assignment dropbox). **No** demo times will be allocated outside of those days. **It is the responsibility of each group to ensure they have booked a time slot**, suitable for the Instructor or TA as well as **ALL** of the group’s members, to complete the live demo. Students not in attendance will receive a grade of **ZERO (0)** for this component of the project. Live demos will take place through MS Teams or Zoom. Live demo details (e.g., MS Team Meeting details) will be provided to each group in their demo booking confirmation email. **Groups will need to book their demos NO LATER than ONE WEEK before the start demo date specified on this handout.**

- D2.2.** Demos will take **between 4-5 minutes** and will be followed by a **10 minute Q&A** period.

**Note:** You can think of the Demo component for your project as an ‘idea pitching opportunity’, where you will showcase the current and future features of your application to an ‘investor’ (i.e.,

the Teaching Assistant and/or Instructor), features that are yet to be completed and what is left for those features to be finished, issues that came up during the development stage, issues that came up during the testing stage, and what was done to mitigate/solve these issues. The short presentation time will force you to speak in plain English, with limited use of jargon (as you would likely be expected to explain the jargon), as these style of pitches are usually done with non-tech oriented individuals. As such, you should consider this requirement when planning for your demo. It goes without saying that time is of the essence, so plan for your demo to take no more than 5 minutes, as groups will be interrupted once they reach this limit and points will be deducted.

**D2.3.** During the **Q&A** period your group will get a chance to answer any questions the ‘investors’ might have in regards to your application (e.g., use, functionality, back-end workflows, APIs used, estimated cost of an application such as the one you developed, usability, cost), as well any questions that your fellow classmates may have.

**D2.4.** Your group **must submit a slide-deck PDF of your project**, which should include:

- **Title Page:** This includes the name of your application and/or group, and names of group members.
- **Introduction:** A short description of your application’s purpose and goals, and set the scope of your project.
- **Application Details:** A brief description of the languages, APIs, and other technologies used in developing the application.
- **Prototype:** Properly captioned screenshots of your application’s design and features.

**Note:** You will need to submit your Project Demo in PDF file format. There will be a 10% deduction for any submission not matching the required file format.

#### Requirements for Recorded Demo Option:

**D2.5.** Groups will need to contact the Instructor, no later than **TWO WEEKS** prior to the demo presentation start date, to inform them that your group has chosen the **Recorded Demo Option**. This step is **necessary** as the Instructor will need to assign a set of questions for your group members to answer in group's video.

**Note:** Groups will need to contact the Instructor **NO LATER** than **TWO WEEKS** before the start demo date specified on this handout. Failure to contact the Instructor by the specified time will result on no questions being assigned to your group and the assumption that your group will be scheduling a live demo. If your group, despite failing to contact the Instructor, submits a recorded demo, the group will receive an automatic grade of **ZERO (0)** for the Q&A portion of your recorded demo.

**D2.6.** Each member of your group must take part (at some point) in your recording.

**D2.7.** Pre-Recorded Demos will take a **maximum of 15 minutes** and use the following format:

- Your demo should be a 5 minute presentation followed by a 10 minute Q&A, where your group will answer all pre-assigned questions.
- Your group's video **must include a short presentation of your project**, describing the application, problem your group/application is trying to solve, and the technologies used.
- Your group's video must also include a demonstration of how your application works (i.e., the application in action). Therefore, video presentations must be done, at least in some part, as a **screen capture video** (i.e., the video must include the contents of your screen)
- Your group's video must include the answers to the set of technical questions that were emailed to you by the Instructor.
- Your group will need to **submit a slide deck of your presentation (in PDF format) and the video submission of your demo in a single ZIP** file through Brightspace.
- Ensure your group has submitted all required materials before the due date for this deliverable has passed (i.e., the demo end date specified on this handout).

**Note: No extensions will be given to the pre-recorded demo option.** Group members who do not take part in the pre-recorded video will receive a grade of ZERO (0) for this component of the project. Failure to submit all required materials will result in grade deductions.

## Marking Rubric

The following grading criteria, shown on Table 1, will be used for marking your Project Demo:

**TABLE 1. CSCI 4177/5709 RUBRIC FOR DEMO**

Dimensions	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations
<b>Demo Quality (15%)</b>	Fails to have professional approach to the demo. Disorganized, lacks clarity (i.e., issues are distracting) and is confusing. Unable to follow a structured path for the demo. Makes excessive use of slang (e.g., bro, dude, huge, lots). Fails to complete demo within the allotted time (i.e., 5 minutes). (1 - 4 points)	Had a somewhat good professional approach to the demo. Somewhat organized, rarely confusing, but issues not distracting. Followed a somewhat structured path for the demo. Minimal use of slang, its use may be considered warranted. Completes demo within the allotted time (i.e., 5 minutes). (5 - 9 points)	Great professional approach to the demo. Very organized and clear. Completes demo within the allotted time (i.e., 5 minutes). (10 - 15 points)
<b>Introduction (20%)</b>	Fails to properly introduce the overall purpose and goal of the application (i.e., issue to be solved). Does not mention current available options to users (i.e., competition). Does not explain how the application is different from what is available. (1 - 9 points)	Overall purpose and goal of the application or issue at hand is somewhat clear. Mentioned current available options but not clear how they could be considered 'The Competition'. Somewhat explained how the application is different from what is available. (10 - 15 points)	Properly introduces the overall purpose and goal of the application (i.e., issue to be solved). Mentions current available options to users and explained how they can be considered 'The Competition'. Clearly explains how the application is different from what is available. (16 - 20 points)
<b>Process (25%)</b>	Poor description of the design and development process. Fails to explain libraries/plugin-ins/frameworks used and how they were integrated into the overall project. Fails to summarize the process from idea to fruition. (1 - 9 points)	Somewhat describes the design and development process. Somewhat explains how libraries/plugin-ins/frameworks used were integrated into the overall project. Somewhat summarized the process from idea to fruition. (10 - 17 points)	Clearly describes the design and development process. Explains libraries/plugin-ins/frameworks used and how they were integrated into the overall project. Clearly summarizes the process from idea to fruition. (18- 25 points)
<b>Justifications (30%)</b>	Excessive lack of detail leading to vague justifications for the decisions that were made. Demo is hard to follow due to missing details. Unclear why libraries/plugin-ins/frameworks were chosen and how they were used/extended/modified. (1 - 10 points)	Able to provide some justifications for their design and development decisions (i.e., frameworks/libraries used). Included details on how libraries/plugin-ins/frameworks used were chosen/used/extended/modified. Demo was not entirely hard to follow. (11 - 20 points)	Makes clear justifications for the design and development decisions that were made. Clearly explains why libraries/plugin-ins/frameworks were chosen and how they were used/extended/modified. (21 - 30 points)
<b>Questions (10%)</b>	Unable to clearly answer questions. Excessive lack of detail leading to vague answers. (1 - 4 points)	Able to answer some questions. Some lack of detail but overall able to provide meaningful answers. (5 - 7 points)	Clearly answer questions. Provides relevant details in answers (i.e., no vague answers). (8 - 10 points)

## Submission Guidelines

Your research paper must be submitted through **Brightspace ONLY**.

**To submit your work to Brightspace:**

- Convert your Demo slide-deck into a PDF prior to submission.
- Your submission file for your Project Demo, **if the option you chose was the Live Demo**, must be named **D2\_Group#.pdf**

**Note: You will need to submit your Project Slide Deck in PDF file format. There will be a 10% deduction for any submission not matching the required file format. There will also be a 5% deduction for any submission not matching the required format specification (i.e., not following the template) or file naming convention.**

- Your submission file for your Project Demo, **if the option you chose was the Recorded Demo**, must be named **D2\_Group#.zip**

**Note: There will also be a 5% deduction for any submission not matching the required format specification (i.e., not following the template) or file naming convention.**

- Submit your Project Demo (in PDF) on **Brightspace**.

### 3. Academic Integrity<sup>1</sup>

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At Dalhousie University, we respect the values of academic integrity: honesty, trust, fairness, responsibility and respect. As a student, adherence to the values of academic integrity and related policies is a requirement of being part of the academic community at Dalhousie University.

What does academic integrity mean?

Academic integrity means being honest in the fulfillment of your academic responsibilities thus establishing mutual trust. Fairness is essential to the interactions of the academic community and is achieved through respect for the opinions and ideas of others. Violations of intellectual honesty are offensive to the entire academic community, not just to the individual faculty member and students in whose class an offence occurs. (See Intellectual Honesty section of University Calendar)

How can you achieve academic integrity?

- Make sure you understand Dalhousie's policies on academic integrity.
- Give appropriate credit to the sources used in your assignment such as written or oral work, computer codes/programs, artistic or architectural works, scientific projects, performances, web page designs, graphical representations, diagrams, videos, and images. Use RefWorks to keep track of your research and edit and format bibliographies in the citation style required by the instructor (See <http://www.library.dal.ca/How/RefWorks>).
- Do not download the work of another from the Internet and submit it as your own.
- Do not submit work that has been completed through collaboration or previously submitted for another assignment without permission from your instructor.
- Do not write an examination or test for someone else.
- Do not falsify data or lab results.

These examples should be considered only as a guide and not an exhaustive list.

What will happen if an allegation of an academic offence is made against you?

I am required to report a suspected offence. The full process is outlined in the Discipline flow chart, which can be found at: <http://academicintegrity.dal.ca/Files/AcademicDisciplineProcess.pdf> and includes the following:

1. Each Faculty has an Academic Integrity Officer (AIO) who receives allegations from instructors.
2. The AIO decides whether to proceed with the allegation and you will be notified of the process.
3. If the case proceeds, you will receive an INC (incomplete) grade until the matter is resolved.

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<sup>1</sup> Based on the sample statement provided at <http://academicintegrity.dal.ca>.



4. If you are found guilty of an academic offence, a penalty will be assigned ranging from a warning to a suspension or expulsion from the University and can include a notation on your transcript, failure of the assignment or failure of the course. All penalties are academic in nature.

Where can you turn for help?

- If you are ever unsure about ANYTHING, contact myself.
- The Academic Integrity website (<http://academicintegrity.dal.ca>) has links to policies, definitions, online tutorials, tips on citing and paraphrasing.
- The Writing Center provides assistance with proofreading, writing styles, citations.
- Dalhousie Libraries have workshops, online tutorials, citation guides, Assignment Calculator, RefWorks, etc.
- The Dalhousie Student Advocacy Service assists students with academic appeals and student discipline procedures.
- The Senate Office provides links to a list of Academic Integrity Officers, discipline flow chart, and Senate Discipline Committee.