Stevens Institute of Technology
Castle Point on Hudson
Hoboken, NJ 07030

CS562 (Spring 2020) – The Project Demo

Date: 5/7/2020 (Thu) through 5/9/20 (Sat)

This project is worth 50% of your final grade, and it is a significant portion of your semester's work. So, please make sure you and your team members are well prepared for the demo. Quality of your project (and your demo) will be measured based on two main dimensions – *accuracy* and *completeness*.

The sessions will start promptly at the scheduled times. Please be sure to show up on time – see the schedule listed below for your presentation.

What to submit:

Please submit all of your work on-line (you will find a HW link for the project in Canvas), including:

- PowerPoint presentation slides
- Source code files – include ALL of the source code files, including any third party libraries you might be using; if they're standard libraries, you can just indicate in your program how/where to access them (Bottom line: I should be able to compile and run your program on my own using the files/instructions you submit). In fact, I strongly suggest you do all of your presentation/demo right from the USB drive (e.g., compile and run your programs from the USB drive, etc.).
- Sample queries – Prepare all of your queries in EMF syntax as well as in standard SQL syntax.
- Generated output files for the sample queries (e.g., Java/C/C++/C# files) you have prepared for the demo
- If you have worked on non-programming project, include:
    - All of the papers you read (in PDF)
    - The write-up (8-10 pages), single-spaced
    - PowerPoint presentation slides

Please Do NOT email any of the files – submission of your work must be done prior to your presentation and if you're doing a non-programming project, send me your papers at least 24 hours before your presentations – there will be **10% deduction for late submissions** & **NO EXCEPTIONS**.

Presentation:

As with any presentation, I expect you to follow the simple rules outlined below:

In a way, you can consider this a "sales" presentation, although the presentation should be highly technical because the target audience (i.e., me) is quite familiar with the topic. Make sure your presentation is succinct (brief and to the point) – your goal is that at the end of your presentation, you want your target audience to want to have his/her hands on the product and ultimately buy it.

The following content of your presentation should not be for more than 10-12 min – all together no more than 10 slides.

NOTE: Please make sure to bring your application development environment, including the compiler(s), etc. in case you need to modify/fix your program.

1. Start off by stating "what you're about to present" (2-3 min)
    a. Include a line/sentence to summarize your project – clearly state *what the problem is* and *how your project is addressing the problem* and the *technical significance of your project*.
    b. List the items you'll cover during the demo.
2. Present your demo (7-8 min)
    a. Include a high level architecture of your project, including a diagram showing how the queries are processed by your program (e.g., show how your program is processing the query and dynamically generating code to process the query).

       IMPORTANT: Clearly indicate who worked on which part of the project architecture.

b. Include a description of your query structure – i.e., how the queries are presented to your program (e.g., are you using a SQL like language? Or is it a list of parameters to the Phi operator? If so, what the query looks like).

c. Provide a description of the technology you're using – e.g., languages, DBMS, any (class) libraries, any other tools, etc.

d. List the technical limitations of your program, if any – e.g., no support for minimal scanning, no error checking for presence of tables, columns, etc.

e. Run your program!

3. Recap your project and your demo (1 min)

   a. Quickly reiterate the problem and the significance of your project.

   b. Provide forward looking statements, if any (e.g., potential enhancements to your projects).

Following your presentation, I'll run some of my own queries, modify and run your queries, ask questions about your program and the tools you're using.

Project Schedule:

Below is the schedule for the project demo:

All presentation sessions will be held via **Zoom**. Please have your development environment and slides ready at least 30 min. before your turn, so we can start on time.

	Date	Time Slot	Team	Members
1	Thu (5/7/20)	7:30-8:00	Aluminum Falcon	Fu, Yunxiang/ Yu, Zhili
2	Thu (5/7/20)	8:00-8:30	The Imitation Gamer	Ramasundaram, Revathy
3	Thu (5/7/20)	8:30-9:00	OnePlusOne	Wang, Hangyu
4	Thu (5/7/20)	9:00-9:30	Syntax Terminator	Athiban, P/ Vallabhaneni, Sri
5	Thu (5/7/20)	9:30-10:00	Silver Snippet	Madhavi, Sushrut
6	Fri (5/8/20)	6:30-7:00	C++ Is The Best Language	Zhang, Ziyu
7	Fri (5/8/20)	7:00-7:30	Team Fnatic	Patel, Dhruv
8	Fri (5/8/20)	7:30-8:00	5/5 Coop	Landolfi, Christopher/Morel, Keith
9	Fri (5/8/20)	8:00-8:30	Doritos	He, Qiaoli/Tang, Xinjie
10	Fri (5/8/20)	8:30-9:00	Inscriber	Yang, Wei
11	Fri (5/8/20)	9:00-9:30	Whiz Bang SQL	Jain, Shubham
12	Fri (5/8/20)	9:30-10:00	Wei's team	Cui, Wei
13	Fri (5/8/20)	10:00-10:30	Shapeshifter SQL	DAlmeida, Evita
14	Fri (5/8/20)	10:30-11:00	Noe's Team	Durocher, Noe
15	Sat (5/9/20)	11:00-11:30	Stay Healthy	Yao, Mingyu/Yu, Zhengqian
16	Sat (5/9/20)	11:30-12:00	the crow	Krishnan, Souraj
17	Sat (5/9/20)	12:00-12:30	Animal Crosser	Jin, Maiqi/Trifonova, Maria
18	Sat (5/9/20)	12:30-1:00	Coach Potatoes	Mo, Fubin/Zhao, Yu
19	Sat (5/9/20)	1:00-1:30	Phi	Verma, Kannu
20	Sat (5/9/20)	1:30-2:00	Yuqing's Team	Luo, Yuqing
21	Sat (5/9/20)	2:00-2:30	Team HaHaHa	Li, Haoyu
22	Sat (5/9/20)	2:30-3:00	Corona Queries	Gensheimer, Kyle
23	Sat (5/9/20)	3:00-3:30	Hedgehog	Li, Zhu
24	Sat (5/9/20)	3:30-4:00	Query Length Cutter	Gadkari, Sanket/Merugu, Nikhil