CMPT 436 Project

General

- Goal: Explore a technology related to the class in greater detail
 - o E.g. WebServices
- Project work should be equivalent to 2 assignments
- Project should be completed within 1 month
- Deadline 1st of December
 - Submit 2 page report (pdf file)
 - ½ page = Detailed description of experiment setup
 - ½ page = Detailed description of experiments
 - 1 page = Presentation of key results and conclusions
 - Submit link to 10 minute video presentation of your project
 - Explain in the presentation
 - Goals,
 - Experimental setup,
 - experiments,
 - results & conclusion

Evaluation

- 25% experimental setup
- 25% experiments
- 50% explanation of results & conclusions

Projects

- 2 Options:
 - Standard project -> compare REST and SOAP performance
 - This is the recommended project
 - Single person project
 - Own project
 - You can choose to work on something else
 - Need to have instructor approval
 - Need to have short description of project
 - Need to outline goals & experiments
 - Need to demonstrate that you can complete project within time frame
 - N people can be on this project

Standard Project - WebServices

- Select a SOAP & REST platform
 - E.g. the ones shown in class
- Define an experimental setup
 - Load Generator (one machine)
 - WebService host
 - Different machines e.g. docker playground, own machine ...
- Define experiments
 - Test behaviour based on arrival rates, data types, data volume,
 - Rerun experiments at least 3 times
 - Explore how to handle network and node failures
 - Explore Scalability
- Write report
 - Present results in a graph/spreadsheet
 - Throughput, overhead
 - How to connect N clients
 - Discuss strength and weaknesses of SOAP and REST
 - When would you use SOAP/REST

Your Own Project

- Example
 - Cloud Computing
 - Explore how to use cloud-services from google, amazon, azure, ...
 - Mobile Apps
 - Explore alternatives to Xamarin OR explore advanced features of Xamarin
 - IoT
 - Build a IoT applications e.g. watering plants
 - 0
- Come and see me as soon as possible to discuss your project
 - Identify number of people working on it
 - o Identify goals, setup, experiments, ...