Vanier College

Deliverable 6

  Client: Opeq, Simon

System Development Section 01

Team Orange:

Jiamin Yuan

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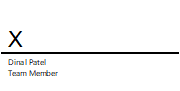
Ibrahim Awad

Submission Date:

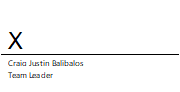
I, (Jiamin Yuan), student ID# (2055624), certify that I have contributed to this deliverable, (signature – this can be a scanned image, or an electronic signature).



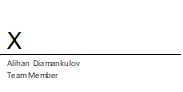
I, (Dinal Patel), student ID# (2042827), certify that I have contributed to this deliverable, (signature – this can be a scanned image, or an electronic signature).



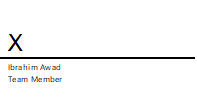
I, (Craig Justin Balibalos), student ID# (2069192), certify that I have contributed to this deliverable, (signature – this can be a scanned image, or an electronic signature).



I, (Alihan Djamankulov), student ID# (2033628), certify that I have contributed to this deliverable, (signature – this can be a scanned image, or an electronic signature).



I, (Ibrahim Awad), student ID# (2032818), certify that I have contributed to this deliverable, (signature – this can be a scanned image, or an electronic signature).



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**Previous Work Statement**

Our team will focus on creating the application from scratch using C# language. Some requirements for the application are that it must be downloadable on PC, and it must be able to connect to a web database. We will use the ideas that we learned from Application Development 1 in the previous semester. We will not use any previous code, but we will use the knowledge that we learned from before.

**Executive Overview (Justin)**

**Business Problem (Dinal)**

**Narrative Description of the Database Design (Jiamin)**

**Appendix 1 (Dinal & Jiamin)**

Data dictionary

– Create a data dictionary, complete with entities, relations and attribute types.

**Appendix 2 (Ibrahim & Justin)**

ER diagram

–Using MS Visio or Draw.IO, produce an ER diagram of the database System Dev Team Project Page 21 of 25 supporting the information system, complete with cardinalities (5 marks).

Class diagram

-Reproduce the class diagram from the 3rd deliverable and explain how and why your ER diagram is both similar to, and different from, the class diagram in Appendix 5 of the 3rd deliverable (10 marks).

**Appendix 3 (Alihan)**

-Descriptions and explanations of query optimization in your design. There are going to be many queries. Do you need to optimize them? If so, why, and how? If not, why not? Normalization DB classes for Appendix

**Appendix 4 (Dinal & Jiamin)**

-Explain the access speed required, and how your design will permit this. How often will the database be accessed? What kind of response time will be necessary?

**Bibliography (Alihan)**