**Intermediate Programming**

**BIT2400A [20742]**

**Final Project Proposal**

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***Abstract***

The **BITBank™ LTD.** Desktop Banking App is an e-banking application to keep track of the customer’s essential daily banking needs which includes, but is not limited to managing funds, paying bills, and electronic transfers of funds. This will be developed using C++ language with the assistance of Windows Forms in Microsoft’s Visual Studio.

***Required Features***

* Basic management of funds for all of customers’ BITBank™ banking accounts with BITBank™ app (ie. Withdrawls, Deposits, and different banking accounts)
* Paying bills with any of customers’ accounts with BITBank™ app
* E-transfers for any of customers’ BITBank™ banking accounts to other vendors/bank accounts

***Optional Features***

* Investments indices
* Stock prices (S&P/TSX/NYSE/NASDAQ)
* S&P/TSX Composite Index
* BITBank™ iSpend™
  + Tracks spending in a more graphical representation
* Markets and Research
  + Major indices and commodities
* Quotes
* Mutual Funds (active/passive)
* Account credentials encryption (Caesar encryption)

***Technology***

* Allegro Multimedia Library for C/C++ (Open Source)
* Microsoft Visual Studio Community 2017 IDE for C/C++

***Project Member(s)***

Danny Vuong

* Custom GUI design
* E-Transfer feature
* Optional features
* Basic management of funds
* Paying bills with a customer’s account
* File handling, credential encryptions
* Optional features