University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: ___1___

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Group Number: ____97____

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

2   Project Description

What is the domain of the application?

The domain our application will be financial markets and investors in these markets.

What aspects of the domain are modeled by the database?

The database will model the entities that include User, Account, Company Analysis, Market Data, Investments, Performance Reports, Charts, and Bank account. The user may perform analysis on the company using performance reports and charts created by the account. Based on this information, the user is free to update their portfolio by purchasing or selling stocks or cryptocurrency.

3   Database Specifications

What functionality will the database provide?

- The system will have a user management system allowing users to register and login to their account.
- The account will fetch market data to generate performance reports and charts to calculate overall performance of their portfolio, compare the performance of different investments and calculate the return on investments.
- The system will integrate with external data to be up to date with the latest market trends such as stock and cryptocurrency prices.
- The user can add, update or remove stocks or cryptocurrency to their portfolio using the data driven insights generated by the account to help them in making informed decisions.

4 Application Platform

What database will your project use?
What is your expected application technology stack?

For our project, we will be using Java IDE, and the backend will be programmed using Java/JDBC. For the frontend we will be using React (JavaScript) and CSS. For the DBMS we will use SQL*Plus/Oracle. We will also use Git and GitHub for work management and collaboration.