University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: _1___

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Group Number: ___57_____

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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

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a. Project Domain

Our project involves creating a job application portal where applicants can create a profile, find relevant postings for company roles and submit their applications. The domain of our application is recruiting for employers and job searching for general users. This project serves as a comprehensive solution to connect job seekers and companies.

b. DB Domain Model

The entire process of the domain of recruiting is covered in our application, from the release of postings, to searching for jobs and submitting an application for it. For their recruiting and employment activities, companies can add jobs and relevant postings for open positions. Therefore, we have entities of Company, Jobs and their relationship of Posts. For job searching, users can add profiles, view jobs by their category, required skills and location. To support this, we have the entities of Users, Locations, Categories and Skills. The relationship of AppliesTo between Users and Jobs represents application submission, with the weak entity of Documents which has an ISA relationship with different document types (Resume, Transcript).

For instance, consider a user, Sarah, that is looking for Software Engineering Jobs at a Finance Company in Vancouver. She will create a new User and begin filtering open Jobs by the Location of Vancouver, using the Industry of Healthcare with Category of Software. She views Company profiles to find out more about them. She will then upload her Documents (resume and cover letter) and attach them to an application to submit to a posting.

3. Database Specifications

Database Functionality
Companies can publish job postings and store information about postings, such as categories, locations, required skills and salary. Companies can operate in different industries, such as technology, financial services, etc. Users can apply for a job and upload their documents (transcripts or resumes). Users can also rate companies with scores and comments.

4. Description of Application Platform

For the database, we will use MySQL as it is a very popular DBMS with the most resources online. For the programming language, we will use Java because we are most familiar with it. For libraries, we will use Hibernate as it is an ORM built on top of JDBC and provides object oriented capabilities while still providing the ability to write native SQL queries.