

CPSC 304 Project Cover Page

Milestone #: 0

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Group Number: 9

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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

Our application's domain is job searching -- it is a job board where hiring managers post jobs that applicants can apply to. The applicant also keeps track of their applications, which also contains interview information as well as offers.

There are three main types of users in the application: job applicants, interviewers, and hiring managers. Collectively, interviewers and hiring managers are referred to as "employees" of a company.

Benefits of the database: The database allows applicants to easily search for the jobs they want using keywords that hiring managers tag to job postings. Employees can keep track of all applications submitted to job postings for their respective companies. Moreover, employees can rate applications, which allows hiring managers to quickly see who the best candidates are.

Database functionality: A hiring manager, on behalf of their company, can create and modify a job posting, which consists of a job title, a description, and associated keywords. An applicant can apply to a job posting by uploading one or more files before the deadline specified by the job posting. An employee can review an application, rating it on a scale of 1 to 5, and then an interviewer can possibly schedule an interview at a specified location and time.

Hiring managers can see all ratings and all interview notes associated with an application. After considering these factors, the hiring manager may extend an offer to a job application, and the associated applicant can accept or reject the offer by a specified deadline. If the deadline passes with no action from the applicant, the offer is considered to be rejected.

The application platform: We plan to use Node.js as a backend platform and PostgreSQL as our DBMS. The frontend will be HTML/CSS.

Additional comments: we are assuming that files can be stored in a database table; PostgreSQL provides the data type “bytea” for this purpose (see <https://www.postgresql.org/docs/7.4/jdbc-binary-data.html>).

