University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

Date: 8th February 2024

Group Number: 10

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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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1. **A brief project description answering these questions:**

a. **What is the domain of the application? Describe it. The domain of an application refers to the area of knowledge your application resides in. For example, if I am making an application for a hospital, the domain would be something like healthcare/patient management/logistics (it would depend on what the application is trying to do).**

The domain for our project is Software Engineering project management and tracking. We want to mainly focus on tracking the tasks, blockers, bugs, repositories, deadlines and versions for software engineering teams. Although we have a component related to tracking employees and departments, we do not intend to make it the main emphasis of our application.

b. **What aspects of the domain are modeled by the database? In answering this question, you will want to talk about what your project is trying to address and how it fits within the domain. It is likely that in the process of answering these questions you will bring up examples of a real-life situation that the application could be applied to.**

The database models the following domains:

1. Project Management
2. Team collaboration and organization
3. Task tracking and team member assignments
4. Bug tracking
5. Deadline and time tracking
6. Project version and release tracking
7. Project repository

The aim of the application is to aggregate and store all this data in a single place and be able to query it efficiently. This can resolve situations where two disjoint teams are working on the same project and need to collaborate efficiently to distribute tasks and solve bugs or view changes in various software releases over the years and be able to contact the people who worked on a previous release.

2. **Database specifications: (3-5 sentences)**
   a. **What functionality will the database provide? I.e., what kinds of things will people using the database be able to do.**

The database stores information about projects' files, releases, changes, and versions that acts like a version control system. It models agile development by enabling continuous tracking of software projects, each with its own set of tasks, repositories, and associated files. This also enhances the prioritization of more important tasks and manages the lifecycle of each release,

optimizing efficient progress tracking overtime. Limiting access control ensures only authorized members can push major changes to project respositories, aligning with principles of iterative development and frequent delivery. One can also generate report on team performance based on project progress: time taken for task completion, bug resolution, version releases, etc. for future improvements.

3. Description of the application platform: (2-3 sentences)

a. What database will your project use (department provided Oracle, MySQL, etc.)?

Our project will be using the Oracle database as the database management system.

b. What is your expected application technology stack (i.e., what programming languages and libraries do you want to use)? See the "Project Platforms" section of this document for more information.

i. You can change/adjust your tech stack later as you learn more about how to get started for the project via latter tutorials

Our expected applications technology stack includes HTML and CSS as our frontend programming languages, and php as our backend programming language for our project.

ER Diagram: