University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 109

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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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Project Description:

This project lies in the productivity domain. It's a collaborative notebook platform that enables users to create workspaces, teamspaces, and pages to take detailed notes and organize/share them with other users. Aspects of the domain that this project models include notebook pages, workspaces, and teamspaces as a way to organize these pages, content blocks in the form of text or images, and comments as annotations to certain content blocks.

Database Specification:

At the highest level, the database will support the creation of a workspace by a user. Inside these workspaces, the user may choose to install plugins, create teamspaces (groups of pages), create pages from scratch or from provided templates, and share the workspace with other users to collaborate on anything. A trivial use case of the platform is to take notes in class. The user's workspace can be split into teamspaces representing each course, and within each teamspace are the user's pages or notes. The user could also create pages based on a template and give their friends read-only access to their workspace while allowing them to leave comments.

Within a workspace, the user can choose to install a plugin from a marketplace, which allows the platform to interact with external applications. Each workspace also provides some templates that the user can use to create a page. Templates contain pre-placed content blocks that the user may find useful. The database will provide a table that stores plugins and templates that the user can query to install. Tables to create, read, update, and delete teamspaces and pages will also be created, and have a foreign key to their workspace.

Within each page, the user can add an arbitrary number of generic block entities. These block entities represent text or images. Users can also add comments linked to certain blocks. The user will be able to create, read, update, and delete these blocks and comments if they have permission.

There will also be a permissions table that controls a user's access to certain workspaces. For example, some users can read and write while others can only read. This table will be read-only for users.

ER Diagram: