University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 67

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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 Collaboration Web App

Domain

The application operates within the domain of project collaboration and management, with a focus on improving visibility and tracking within a team or organization. It serves as a digital platform designed to facilitate effective coordination and communication among team members involved in various projects, optimizing workflows through features like task assignment, progress tracking, and communication tools. The aim is to enhance collaboration and overall project management.

Aspects

A project collaboration platform requires a database to manage user authentication, store details of project and task, real-time collaboration, comments and suggestions, and metadata indexing efficiently. This database stores user credentials, project content, access controls, comments, suggestions, and indexing information, facilitating seamless collaboration and project management for users across the platform.

The application will enhance productivity and coordination within teams, ensuring efficient project execution and timely delivery of deliverables. In real-life settings, this tool can be useful for managing projects across students and various industries such as software development, marketing campaigns, consulting projects, and more. The database can also be used to integrate with AI to facilitate the development of a chatbot feature within the project collaboration web application. Users will have the ability to interact with the chatbot, by analyzing previous contributions and user interactions, which then could provide relevant insights, suggest next steps, and prompt discussions based on the context of the project.

Database Specifications

The database will provide functionality for storing, retrieving, and managing data related to project collaboration and management. Users will be able to create and modify projects, tasks, comments, requests, meetup events and votes/polls. Additionally, users can query the database to retrieve specific information, generate reports, and analyze project data.

Platform Stack

- PHP for server-side scripting
- React.js & HTML for the front-end interface & web page structure
- MySQL for back-end database management.

Entities and Relationships

- User
- Project
- Task
- Team
- Collaboration Request

- Meetup Event
- Notification
- Poll

Weak Entities:

- TaskComment: (Weak Entity and the owner entity is Task)
- Votes:(Weak Entity and the owner entity is Poll)

ISA Relationship: User is a superclass entity which belongs to subclass entities Project Manager and Member, this is a total and disjoint ISA relationship.

- Project Manager
- Member

ER Diagram

It is on the next page

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