CS348 Project Writeup William Lin

* **Users**: Stores user information (user\_id, name, email, phone\_no).
* **Teams**: Information on teams within the organization (team\_id, name, description).
* **Tasks**: Tracks tasks (task\_id, title, description, status, due\_date, assigned\_to, oncall\_team, completion\_time, creation\_time).

Indices: Date, Status on Tasks

Supported Queries:

Date: Filter for overdue tasks ( date < current, status != completed), filter for incomplete tasks before certain date

Status: filter for incomplete, pending, in progress, overdue tasks

For a task management web app, Read Committed isolation is likely the best choice because:

Consistency: It avoids dirty reads, ensuring that users always see committed, consistent data.

Performance: It provides a good balance between consistency and performance.

Use Cases: Your app may allow users to edit, assign, or update tasks, so you don’t want them to read data that is in the process of being modified (which could happen with Read Uncommitted).