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CIS 1910: Using and Understanding Unix and Linux
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Final Project Proposal

Project: Command-line Calendar and Reminders system

Components/Features:

- View all commitments – include calendar events and reminders of tasks
- Add or modify events – include characteristics such as date/time, title, location, recurring, priority, category, further notes
- Delete events – remove existing events from all commitments
- Add or modify reminders – include characters such as deadline date/time, title, category, recurring, priority, further notes
- Delete reminders – remove existing reminders from all commitments
- Search and filter – search for specific events or reminders based on title, location, or category
- Import and Export – read calendar information from .ics format, and export all events and reminders into .ics format
- Notification – send a command-line message when the event is occurring or task deadline is upcoming

Milestones:

- Week 1:
 - Create basic calendar structure and user interface for displaying all commitments, events, and reminders.
 - Implement commands for adding, modifying, and deleting events with all of their described characteristics.
 - Implement commands for adding, modifying, and deleting reminders with all of their described characteristics.
 - Add search and filter functionality to the system.
- Week 2:
 - Implement notification functionality that sends a command-line message when an event is occurring or a task deadline is upcoming.
 - Implement import and export functionality for .ics format.
 - Test all features and functionalities of the system, and ensure that they are working as intended.

What similar tools exist and what are their pluses and minuses?

- Popular web-based calendar and task tracking tools are web-based, such as Google Calendar, Apple Calendar, and Outlook. These tools integrate with their respective company's entire suite of products or tools, ranging from GMail integration and iCloud synchronization and are great choices for allowing collaboration across many users. However, there are small minuses for each platform. For instance, Google Calendar requires providing your potentially sensitive data, and Apple Calendar is not the most convenient platform for users to interact with other users on other calendar platforms.