

"Proof-of-Concept Weekly Update"

We are making a To Do List combined with a white noise player and a timer. The highlights of this to-do list are its comforting features and stress- relieving functions. To further elaborate, it will display random photos of beautiful scenery around the world each time it is opened and play soothing music in the background. It provides a relaxing, peaceful, and quite environment to help people improve their work efficiency. The target market of my app is people who want to concentrate on one task during a period of time or want to improve their working efficiency.

"PoC Goals & Progress"

- **GUI - 2 hours**

- **We made a To Do List panel and Completed Tasks panel on the left side of the application.** When a task is ticked off in the To Do List panel, it will automatically move to the Completed Tasks panel. Similarly, when a task is ticked off in the Completed Tasks panel, it will automatically move back to the To Do List panel.

Furthermore, you can add and delete tasks inside the To Do List panel. On the center of the application, we have a timer and current task display. Below which, we have buttons that control the playing of different white noises. At the beginning, if you click the button, the music would start playing. Then, if you click the button again, the music will stop.

- **Data structure backend - 2 hours**

- We set up priority queues and hooked up with an addTask button to add tasks based on the start time of tasks set by the user. The user would also designate the end time for a specific task.

Thus we have two priority queues, one for the to do tasks, one for the completed tasks. We pop and peek to add and delete back and forth. Furthermore, we display the most current task in the middle of the screen and update it with the timer.

"PoC Hard & Interesting"

- **Hard part**

- trying to set the alignment of components in panels with different layouts and
- trying to add icons to JButtons. We tried new Java classes to make a more aesthetic GUI appearance.

- **Interesting part**

- add different music files to the application. Since each music file has different time lengths, we have to loop each file for it to play as long as the user pleases. However, we also have to stop it, when the user clicks the button twice. We also provided a mute button that achieves the same effect.

"PoC Next Weeks Plan"

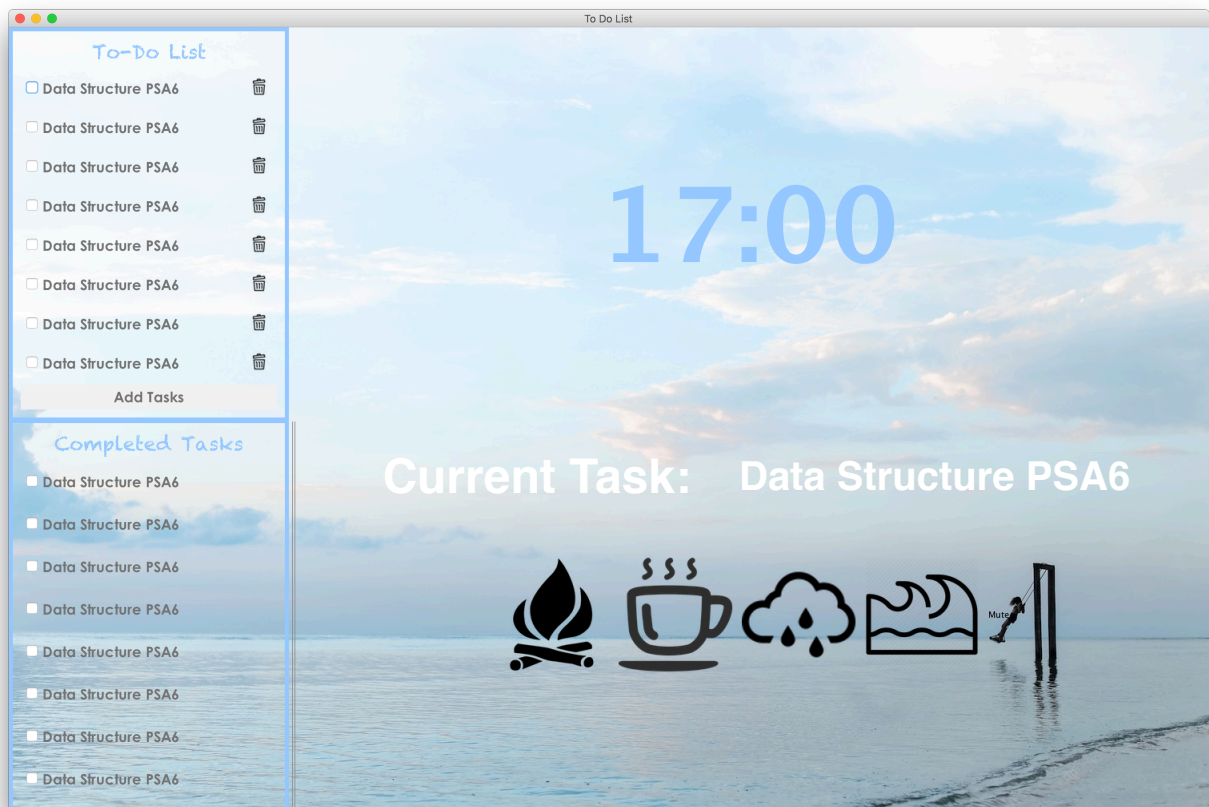
- **Remind the user with a pop-up panel when a task starts and ends.**

- When the end time designated by the user passed, the current task will move to the bottom of the To Do List panel. The user may then decide to tick it off or delete it. It is allowed to add multiple tasks in the same time period.

- **Hook up with MySQL database**

- This is for enabling the application to remember the tasks even after it is closed. We must learn how to incorporate MySQL commands into our java program.

"PoC Screenshots"



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