Computer Programming IA

Criterion A:

The Scenario:

The client (myself) has found themselves in a to-do list limbo. There already exist hundreds of to-do list applications and time managers, but none fit the way that the client thinks. Most of those programs were designed for professionals, not students.

The client has found that having a running list of tasks—one wherein all tasks are always visible, regardless of due date—is the most useful way to organize tasks. Paper does this quite well, but it’s bulky and “finished tasks” stay on the page when crossed out. Furthermore, paper is not always on one’s person, but a phone usually is.

Hence, I proposed a software solution that will have a running list of tasks, and, additionally, will include a calendar that can be enabled or disabled.

The Rationale for the Solution:

This solution addresses the problem because it will be a To-Do manager that fits in the Client’s niche. The Solution will run on Android and PC, as those are the client’s devices. This project will be standalone to improve the ease of use for the client. It is intended to be used on an Android phone, so Java was an appropriate language to code in. Additionally, I have been working with mostly Java for most of my previous projects.

Success Criteria:

1. Client can add and remove tasks and events with ease
2. Client can add due dates to tasks
3. Client can add reminders for events and tasks
4. Client can add priority levels to their events and tasks
5. Client can see choose where to see completed tasks
6. Client can change the proportion of their UI used by the calendar and task list
7. Client can change the colors of their UI
8. Client can access their tasks and events on multiple, synchronized devices

Criterion B:

Tests

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| --- | --- | --- |
| Test | Function | Example |
| On startup, given no previous login, the user should be presented with the login screen | Check that the GUI is properly formatted | Everything should be centered and have the correct font and graphics |
| The login screen should work | Check that putting in the right password and username takes you to the next screen | Putting in the test password and username will take you to the main tasklist |
| You should be able to add tasks to the task list | Check that the Tasks.add() function works | I should be able to have tasks=tasks.add(new Task("Just Do It, Nike(tm)", 1, rem, mem)); and actually add an element |
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Flow Charts

Graphics

Logic Flow

Criterion C:

UML Diagram

Complex Code Screenshots

Explain 6-8 uses of advanced techniques

Sources

Harvard Referencing

Criterion D:

Video

Criterion E:

Evaluation

Check Success Criteria

Client Opinons

Future Improvements

Resources (Remove later and place in separate appendix file):

Window Builder

Java Documentation

Big Java

Random Indian dude (https://www.youtube.com/watch?v=r8Qiz9Bn1Ag)

Some girl (<https://www.youtube.com/watch?v=zG8CrISqPpU>)

StarUML

Adobe XD

<https://javahungry.blogspot.com/2013/06/calendar-implementation-gui-based.html>