

ENSE 374 – Software Engineering Management

**The Smart Session Planner**

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* Proof read the text for typing and grammar mistakes.
* Follow the IEEE Bibliography style for the references by selecting "References/ Citations & Bibliography/ Style".

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# Introduction

* Give a brief description of the design and a summary of the relevant background information related to the topic. Give a rationale about what is needed and why.
* Give the reader an overview of what is in the next sections.
* Do not put any detailed results of your work here.

# Design Problem

This section has the following two subsections:

## Problem Definition

|  |  |
| --- | --- |
| Proposed Project: | Smart Study Session Planner |
| Date Produced: | 05/16/2025 |
| Background | As university students ourselves, we find it hard to always stick to a planned study session since scheduling conflicts may arise unexpectedly due to other commitments that we may have forgotten about. Much like us, many students seem to have issues with planning and sticking to schedules, so we decided to do something about it. **The Smart Study Session Planner (SSSP),** will automatically create balanced weekly study calendars that make laying out a student’s schedule a whole lot easier.  The primary goal is to convert a student’s deadlines, availability and study preferences into an editable planner that boosts productivity. |
| Key Features | * Timer * Calendar * Statistics Dashboard * In-app notification |
| Primary Goal | Convert a student’s **deadlines, time availability, and study preferences** into an **optimized, editable weekly plan** that maximizes preparedness while minimizing stress. |
| Stakeholders | *Primary*: Students (end users).  *Secondary*: Academic advisors, wellness centers (interested in stress metrics) |

## Design Requirements

This section has the following three subsections:

### Functions

* Provide functions of the design project. Remember that the functions contain verbs.

### Objectives

* Provide objectives of the design project. Remember that the objectives are specified as adjectives.

### Constraints

* Provide constraints here. Remember that the constraints are binary (either satisfied or not).

# Solution

In this section, you will provide an account of some solutions your team brainstormed to implement and test the project. Some solutions might not have all the desired features, some might not satisfy the constraints, or both. These solutions come up in your mind while you brainstorm ways of implementing all the features while meeting the constraints. Towards, the end you select a solution that you think has all the features, testable and satisfies all the constraints. Remember that an engineering design is iterative in nature!

## Solution 1

Write a brief description of your first solution and provide the reasons in terms of testing for not selecting this one.

## Solution 2

This is an improved solution but might not be the final solution that you select. Give a brief description of this solution here. Again focus on its testing attributes.

## Final Solution

This is the final solution. Explain why it is better than other solutions (focus more on testing). You may use a table for comparison purposes. After providing the reason for selecting this solution, detail it below.

### Components

What components you used in the solution? What is the main purpose of using individual component? What testing method did you employ for each component? Provide a block diagram (with a numbered caption, such as Fig. 1) representing the connectivity and interaction between all the components.

### Environmental, Societal, Safety, and Economic Considerations

Explain how your engineering design took into account environmental, societal, economic and other constraints into consideration. It may include how your design has positive contributions to the environment and society? What type of economic decisions you made? How did you make sure that the design is reliable and safe to use?

### Limitations

Every product has some limitations, and so is the case with your design product. Highlight some of the limitations of your solution here.

# Team Work

Since this is a group project, you must have a fair distribution of tasks among yourselves. To this end, you must hold meetings to discuss the distribution of tasks and to keep a track of the project progress.

## Meeting 1

Time: Month Date, Year, hour: minutes am/pm to hour: minutes am/pm

Agenda: Distribution of Project Tasks

|  |  |  |  |
| --- | --- | --- | --- |
| Team Member | Previous Task | Completion State | Next Task |
| Team member 1 | N/A | N/A | Task 1 |
| Team member 2 | N/A | N/A | Task 2 |
| Team member 3 | N/A | N/A | Task 3 |

## Meeting 2

Time: Month Date, Year, hour: minutes am/pm to hour: minutes am/pm

Agenda: Review of Individual Progress

|  |  |  |  |
| --- | --- | --- | --- |
| Team Member | Previous Task | Completion State | Next Task |
| Team member 1 | Task 1 | 80% | Task 1, Task 5 |
| Team member 2 | Task 2 | 50% | Task 2 |
| Team member 3 | Task 3 | 100% | Task 6 |

## Meeting 3

Provide a similar description here.

## Meeting 4

Provide a similar description here.

# Project Management

Provide a Gantt chart showing the progress of your work here. Mention all the tasks along with their predecessors. Provide the slack time of each task and identify the critical path.

# Conclusion and Future Work

* A summary of what you achieved. Mention all the design functions and objectives that you achieved while satisfying testing requirements?
* While keeping the limitations of your solution, provide recommendations for future design improvements.

# References

* Use the IEEE reference style.
* Do not put any reference if it is not cited in the text.

# Appendix

If you want to provide an additional information, use this appendix.