

Personal Requirement Planner

Problem Statement

Create a program that helps students manage their time properly by organizing their requirements according to the user's preference and capability.

Project Objectives

To help students organize their requirements in an orderly manner by analyzing time availability for each task inputted.

Planned Features

Our project will enable the students to organize or plan their personal requirements by inputting dates that go by years and months, which they want to organize. And our project will display the calendar, enabling the student to organize and highlight dates they want to. Our project will also display the specific personal requirements on the highlighted date.

Planned Inputs and Outputs

The planned inputs for the users in our project is that the user will be able to input the month and the year that the user wants. And our planned outputs are dependent on the input of the user which will show a calendar and the highlighted date of the due date of assignments.

Logic Plan

```
IMPORT calendar
```

```
FROM datetime IMPORT date
```

```
DEFINE display_homework_calendar(year, month, assignments)
```

```
    // Displays the calendar for a given month and year, highlighting days with homework assignments
```

```
    DECLARE cal = calendar.monthcalendar(year, month)
```

```
    PRINT day abbreviations
```

```
FOR week IN cal:
```

```
    FOR day IN week:
```

```
        IF day == 0 THEN
```

```
            PRINT "No such date!"
```

```
        ELSE
```

```
        SET current_date = date(year, month, day)
        date_str = format_date_to_string(current_date)

        IF date_str IS IN assignments THEN
            PRINT the day inside brackets
        ELSE
            PRINT normally
    PRINT new line

// Print a list of homework assignments for the month
PRINT "Homework Assignments:"
FOR each date_str, tasks in assignments:
    IF date_str belongs into given year and month THEN
        PRINT date_str
        FOR each task in tasks:
            PRINT the task
```