

Assignment 2 Grading Rubric

Total (100 points)

Section 1: Code Implementation (70 points)

addResources (3 points)

Add resources to the project.(1)

Add relevant information.(2)

addTasks (5 points)

Add tasks to the project.(1)

Add relevant information.(2)

First Task DOES NOT have to be starting task(2)

setTaskDuration (2 points)

Modifies the duration of all tasks in the project.(2)

set_nth_TaskDuration (1 points)

Changes the duration of a specific task.(1)

printTaskDependencyList (5 points)

Displays the dependencies of all tasks.(4)

Ensures correct formatting and readability.(1)

calculateBasicSchedule (20 points)

Display the project's schedule.(3)

Prints the completion time.(1)

Calculate early times.(6)

Calculate late times.(10)

printCriticalTasks (4 points)

Identifies and returns the critical tasks.(3)

Calculates the sum of their durations.(1)

completionTimeWithResources (20 points)

Calculates the project's completion time considering resource availability.(1)

Allows tasks to start based on resource availability.(8)

Resource priority and proper resource allocation.(8)

Displays the schedule.(3)

completionTimeWithResourceProficiency (10 points)

Computes the project's completion time considering resource availability and proficiency levels.(1)

Use resource proficiency properly.(7)

Displays the schedule.(2)

Section 2: Menu and Validation (10 points)**Menu Design (5 points)**

Implements a user-friendly menu for interacting with the system.(2)

Clearly defines options and prompts.(3)

Input Validation (5 points)

Validates all user inputs for correctness and boundaries.(4)

Provides appropriate error messages for invalid inputs.(1)

Section 3: Documentation and Readme (10 points)**Comments and Documentation (5 points)**

Provides meaningful comments explaining code logic and functionality.(3)

Uses appropriate variable/function naming for clarity.(2)

Readme (5 points)

Includes a well-structured readme file.(1)

Explains the code's purpose, design, and usage.(2)

Provides references to external sources used.(2)

Section 4: Code Structure and Organization (10 points)

Code Structure (5 points)

Code is well-structured and organized into functions/classes.(4)

Follows good coding practices.(1)

Efficiency (5 points)

Code is efficient, and data structures (linked lists) are used effectively.(5)

Warnings

Use Linked Lists or variations (Else ZERO Marks)

Don't use Arrays or Built-in Data Structures (Else ZERO Marks)

Downloaded File not RUNNING (ZERO Marks)

NAMING not given in first line of each file (20% Marks deduction)