Task Management System

Introduction to Programming

CMPT 120L

Maddie&Gaby

Marist College
School of Computer Science and Mathematics

Submitted To:
Dr. Reza Sadeghi
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Project Progress Report 1 of Task Management System

Team Name
Maddie&Gaby

Team Members
1. Gabriela Ramon gabriela.ramon1@marist.edu (Team Head)
2. Madison Chan madison.chan1@marist.edu (Team Member)

Description of Team Members
1. Gabriela Ramon
   I am a freshman with a major in Applied Mathematics with a concentration in Finance and a minor in Data Science and Analytics. I am taking Intro to Programming this semester to build my computing skills while also fulfilling one of major/minor requirements. Maddie and I chose to work together because we have worked well together on various past assignments in class. I chose to be the team head in order to manage our communication and become responsible for all our submissions.

2. Madison Chan
   I am a sophomore with a major in Business Administration with a concentration in Marketing as well as a double minor in Graphic Design and Data Science & Analytics. I am taking Intro to Programming because it is required for my minor. Gaby and I chose to work together because we worked on previous in-class assignments together. Gaby is the team head because she volunteered to be responsible for all future submissions.

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Project Objective

A task management system (TMS) displays a calendar for the desired week, month, or year. Also, TMS organizes the personal tasks of different users on a specific day. The users should be able to see their individual calendar data & update them. Your TMS will store the data of different user types in distinct comma-separated value (CSV) files. This system should at least support the following items:

1. The admin user is capable of:
    a. Having an admin user and password for login (a string of at least 8 characters)
    b. Changing the admin user and admin password
    c. Adding a normal user to TMS by creating a new username and password. A normal user is not able to define or remove other users.
    d. Remove users from TMS by removing their username, password, and corresponding recorded data.
2. Each user should be able to:
    a. Add a task to TMS. The task contains: a title, time, duration, and description
    b. Remove a task
    c. Edit a task's details
    d. Search through TMS based on time, title, or duration and list the results on the screen. For instance, it should be able to list all scheduled work for one day
3. TMS should be a user-friendly software, such that:
    a. It shows a welcome page and provides a menu of all functions to the user on all pages
    b. It illustrates the reports in a tabular form. For instance, it displays a well-organized calendar of every month or year.
    c. It shows a warning if the user tries to input contact information with a name that exists in the history
    d. TMS should provide an exit function and thank the user for using this software.
4. Optional: TMS should protect the user information, such that:
    a. TMS passwords and the recorded information should be ciphered. In the simplest case, you can use the Caesar cipher methodology. The easiest way to understand the Caesar cipher is to think of cycling the position of letters. In a Caesar cipher with a shift of 4, A becomes D, B becomes E, C becomes F, etc. When reaching the end of the alphabet it cycles around, so X becomes A, Y becomes B, and Z becomes C.

Private GitHub Repository Address

https://github.com/gabyramon/CMPT-120L-112_Task-Management-System_Maddie-Gaby