***TASK MANAGEMENT SOFTWARE***

**TMS\_01**

**TMS shall support CRUD (Create/Read/Update/Delete) operations on Tasks**

**Ans:-** Each task shall contain following information:

Task Id, Task Name, Task Status, Task Owner, Task Priority

The program shall support following menu:

1. Create Task

2. List All Tasks

3. Update Task

4. Delete Task

5. Save and Exit

**TMS \_02 :**

**TMS shall support CRUD (Create/Read/Update/Delete) operations on Users .**

**Ans:-**1.Task Management Software is an application from which we can see the required information of an employee like employee name, user ID, task name, task ID, and if required then other information like gender , D.O.B etc and see the assigned project’s assigned date and deadline.

2. We also track the current status of the work of each employee.

3. Here we need to use CRUD (Create/Read/Update/Delete) operations which is an acronym that refers to the four functions used to implement the applications.

**TMS\_03: Comma separated value(CSV): The CSV is used to separate the fields and also to change the database file to spreadsheet file.**

**Ans:- 1)** A Comma-Separated Values (CSV) file is a delimited text file that uses a comma to separate values.

1. It actually stores the tabular data in plain text, in which each line has the same number of fields.Similarly in this function also, the user given tabular data is represented in plain text and the fields/columns are separated by a comma and rows terminated by new lines.

Ex:

| Name | Id | Email Id |
| --- | --- | --- |
| S. Shiva | 4567890 | [shiva@gmail.com](mailto:shiva@gmail.com) |
| R. Rakesh | 2345672 | [rakesh@gmail.com](mailto:rakesh@gmail.com) |
| G. Smitha | 345621 | [Smitha32@gmail.com](mailto:Smitha32@gmail.com) |

The above table data may be represented in CSV format as follows:

Name, Id, Email Id

S. Shiva, 4567890, [shiva@gmail.com](mailto:shiva@gmail.com)

R. Rakesh, 234572, [rakesh@gmail.com](mailto:rakesh@gmail.com)

G. Smitha, 345621, [smitha32@gmail.com](mailto:smitha32@gmail.com)

**3)** Here, if the user needs to transfer information from a database program to a spreadsheet that uses a completely different format. Most of the database programs can export data as CSV and then exported CSV files can be imported by spreadsheet program.

**TMS - 04**

**The files shall be loaded in memory, and all CRUD operations shall happen in memory. On command by user, the data shall be committed to files.**

**Ans:- 1)**The Tasks.csv and Users.csv files should be loaded into the memory and the Tasks.csv and User.csv files look like this

Task ID, Task Name, Task start date,Task end date

101 , creating user, 22 Nov 2022 , 1 Dec 2022

1. Once the file is loaded into the memory by using file handling , we can perform some CRUD operations like Create, Read ,Update the operations in that file and then the user commits the data once the operations are done with that file.
2. Ex.- fopen(),fclose()

**TMS\_05:**

**In case one Task/user record is in format error ,TMS shall still load and process the other records**

**Ans:-**If in case any fault occur in the task then the user records it is in the error format then the TMS will be still load and process for the other records

**TMS\_06**

**Task record shall comprise of at least following fields : task\_id, task\_name, task\_description, task\_deadline**

**Ans:-**A task record shall comprise of at least the following fields: task\_id, task\_name, task\_description, task\_deadline. This ensures that every task has a unique identifier, a name, a description, and a deadline associated with it.

**TMS\_07**

**User record shall comprise of at least following fields : user\_id, user\_name, user\_designation**

**Ans:-** User record shall comprise of at least following fields : user\_id, user\_name, user\_designation.

user\_id field is used to store the unique identifier for a user.

user\_name: The user\_name field is used to store the name of the user.

user\_designation: user\_designation field is used to store the designation of the user.

**TMS\_08**

**To store Task-to-User assignment, another file named Assignment shall be maintained. Each re cord in this file shall comprise of at least following fields : task\_id, user\_id**

**Ans:- A)**A Task-to-User assignment file would be used to store which user is assigned to which task. This would be useful in cases where multiple users are working on the same project, and each user is assigned to different tasks. By having this file, it would be easy to see which user is working on which task, and to track the progress of each task.

**B)**The task\_id field is used to store the unique identifier of the task.

**C)**The user\_id field is used to store the unique identifier of the user who is assigned to the task.