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| PROJECT MANAGEMENT SYSTEM |
| DSA LAB PROJECT 2018 |

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1. **PROBLEM STATEMENT-PROJECT MANAGEMENT SYSTEM**

Project Management System is an application that allows easy and convenient data management to companies, schools, organisations and institutions. It provides a safe and personalized experience of management.

**PROBLEM STATEMENT**

This project must give the admin and employees functionalities to ensure smooth working and management. The objective of this project is to build an automated system for project management. The features to be included are: Adding, updating or deleting data from the management database. The data must not be corrupted by users that are not authorized to access it.

The system must give appropriate options depending on the type of user using the system and thus, guarantee the safety and reliability of the program. It must also be user-friendly and interactive in order to enable even a layman to use it.

**OUR SYSTEM**

To ensure data security, the admin must always enter the password before he/she can perform any operations. The employees must also provide their ids and passwords before they can add new employees, delete employees, update details or view the details.

Admin functions:

1. Adding, updating, viewing and deleting employee details
2. Adding, updating, viewing and deleting admin details
3. Assigning groups to Activities
4. Adding , viewing and finishing projects and activities
5. Giving promotions to well-performing employees
6. Searching for specific projects, activities and employees using their IDs
7. **LIST OF DATA STRUCTURES**

Linked list: A non-linear data structure that allows efficient space-usage and flexibility in size or length of the list. We have used linked list here to store the data of the different classes to allow easy addition, alteration and deletion of data. Linked list’s feature to allow the size of the list to remain unknown lets the user to implement dynamic memory allocation.

1. **LIMITATIONS**
2. Each Project can have only one admin.
3. An Activity must have a minimum of 3 employees.
4. Admin must always enter his/her id and password before the menu is displayed.
5. The employee designation must contain the code of the activities he/she can undertake. For example, if there is some activity named CO or DSA, the employee who can be assigned this activity must have designation as CO or DSA.
6. The activity name must be something that relates to users.
7. The employee and administrator with ID 1 have already been declared.
8. **INPUT DATA AND OUTPUT GENERATED**

Please refer the Program\_test\_result.docx file.

**5**. **CLASS DIAGRAM**

