

## **DSA MINI-PROJECT**

Develop an application to demonstrate your skills by defining the problem statement and design a modular solution with clear separation of abstract data types and their usage. Design a proper function prototype and division of work among the functions.

### **Applications can be**

- Reimplementation of C library functions
- Game applications like Sudoku, Chess
- Applications to manage institutions like hospitals, colleges, shops, library, school, employee payroll, Employee management systems.
- Data Analytics applications to visualize graphical elements of domain-specific data
- Visual implementation of Data structure concepts (Sample Application: [Virtual Labs](#) )

### **Instructions:**

1. Applications must contain at least 3 data structure concepts from the following:  
Linked List/Array, Stack, Queue, Binary tree, sorting techniques, graph.
2. Make a group of 2 to 3 students from the same batch. Submit the details of Mini-project synopsis on or before **30th September, 2025**. The miniproject consists of 500-700 lines of code, equally distributed among team members.
3. Reviews are scheduled in the **3rd and 5th week of October**. Submit the report (Max 20-25 pages) and presentation (Max 6 slides ) on the **1st week of November**.

Link:

[https://docs.google.com/spreadsheets/d/1tt8gO\\_XP5-5fhdXiwTzGbO7mVJEiF2MkLYQWa\\_JAT\\_Y/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1tt8gO_XP5-5fhdXiwTzGbO7mVJEiF2MkLYQWa_JAT_Y/edit?usp=sharing)