SPL1 Project Proposal Form, 2022
Institute of Information Technology (IIT)
University of Dhaka

Student's Name:	Ibne Bin Rafid		
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Project Description:

Title: Graph Algorithms Implementation and Visualization

Objective: The goal of this project is to implement and visualize a selection of graph algorithms using a C, C++ language.

Description: Graphs are used to represent relationships between data, and graph algorithms are used to analyze and manipulate these relationships. Some examples of common graph algorithms include breadth-first search (BFS), depth-first search (DFS), shortest path (Dijkstra's or A*), and minimum spanning tree (Prim's or Kruskal's). In this project, I will choose a set of graph algorithms to implement and visualize.

To visualize the algorithms, I will create interactive visualizations that allow the user to see the steps of the algorithm as it progresses. This can be done using different graph libraries and functions.

Deliverables:

- Code for implementing the selected graph algorithms
- Interactive visualizations for each algorithm, showing the steps of the algorithm as it progresses
- A report or presentation explaining the algorithms, the visualizations and any insights gained from the project

Languages or Tools to be used:

C, C++, Visual Studio, Codeblocks, Git, Github

Supervisor's Name: Kishan Kumar Ganguly

Signature of the supervisor:_____

Date: 04-01-2023