SPL-1 Project Proposal Form, 2023
Institute of Information Technology (IIT)
University of Dhaka

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Project Description:"Programmer De-Anonymizer" is a project that aims to develop a model to identify programmers based on their coding style using static code analysis and includes an innovative feature to match statistical data with stock images representing coding style icons. The model will provide a similarity score indicating how closely a programmer's coding style aligns with a specific style icon. This project will help us in a forensic context, such as detection of ghostwriting, a form of plagiarism. The project will involve the following key points:

1.**Data collection and feature extraction:** Collecting data from various programmers, storing their identity in a data structure, then extracting different types of features, focusing on unique characteristics that distinguish each programmer coding style is our first job.

2.**Build a model:** Using the data from the feature set we then build a robust statistical model that can recognize different programmers based on their coding style.

3.**Model Evaluation:** The model will be rigorously evaluated using various metrics to assess its accuracy.

4.**Integration and Deployment:** Once the model proves its accuracy, we will integrate it into a user-friendly tool that will accept a new input C file, predict the most likely programmer and assign it in a cluster based on their similarity with a relevant style icon.

Languages or Tools to be used: C, C++, Visual Studio Code, Git, Github

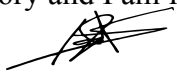
Supervisor's Name: Dr. Kazi Muheymin-Us-Sakib

Signature of the supervisor:

Date: 06 August 2023

Before the Midterm Presentation:

I confirm that the progress is satisfactory and I am forwarding it for midterm presentation.

Signature of the supervisor: 

Date: 10 September 2023

Midterm Presentation Feedback: