**SPL-1 Project Proposal Form, 2023**

**Institute of Information Technology (IIT)**

**University of Dhaka**

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| **Student’s Name:** | **Hasnain Sheikh** | | |
| **Student’s Roll:** | **BSSE - 1408** | **Phone:** | **01521709896** |
| **Project Title: Basic Image Processing Tools**  **Project Description:**    **An Image Processing software project involves implementing a set of fundamental features**  **For manipulating and enhancing images. This project also implements some image processing algorithms. Here are some features that I try to implement in my project:-**   1. **Image Loading and Reading:**   **Allow user to load image and read the image in RGB format. These data will be stored in a 2D Array.**   1. **Basic Editing:**   **Negation, Grayscale etc.**   1. **Color adjustment:**   **Image Brightening, Darker**   1. **Filter and Effect:**   **Sharp, Blur, Smooth**   1. **Image Flip** 2. **Edge Detection** 3. **Histogram** 4. **Save Image:**   **Write the modified image in a new file.** | | | |
| **Languages or Tools to be used:** | | | |
| **Supervisor’s Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Signature of the supervisor:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | |
| **Before the Midterm Presentation:**  I confirm that the progress is satisfactory and I am forwarding it for midterm presentation.  **Signature of the supervisor:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | |
| **Midterm Presentation Feedback:** | | | |