

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

|  |                           |               |                       |
|--|---------------------------|---------------|-----------------------|
| <b>Student's Name:</b>   | <b>Mashiat Amin Farin</b> |               |                       |
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| <p><b>Project Description:</b></p> <p><b>An image processing and compression tool which will take 24-bit bitmap images as inputs and enable the user to compress or edit the image by changing the scales of different aspects of the image.</b></p> <p>Implementation of image compression using</p> <ol style="list-style-type: none"><li>1. LZ77 or/and</li><li>2. RLE (run length encoding)</li></ol> <p>The user will be able to compare and choose between the two image compressions.</p> <p>Implementation of image manipulation and different image processing algorithms. Such as:</p> <ol style="list-style-type: none"><li>1. Gray scaling</li><li>2. Smoothing</li><li>3. Brightening</li><li>4. Sharpening</li></ol> |                           |               |                       |
| <p><b>Languages or Tools to be used:</b></p> <p>C++, Java</p>  |                           |               |                       |
| <p><b>Supervisor's Name:</b> <u>Mohd. Zulfiquar Hafiz</u></p> <p><b>Signature of the supervisor:</b> _____</p> <p><b>Date:</b> _____</p>   |                           |               |                       |

**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:**

