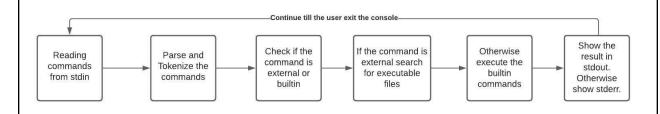
SPL1 Project Proposal Form, 2022 Institute of Information Technology (IIT) University of Dhaka

Student's Name:	Istiaq Ahmed Fahad		
Student's Roll:	1204	Phone:	01766610087

Project Description: I will recreate a simple Linux Shell (Bash) that includes basic shell operations namely executing commands (will implement a few of them due to time limitations), customizing command (alias), suggesting tentative commands, customizing text color. The motive that encourages me to take that project is to observe how the system process, I/O redirection, pipelines works. Therefore I want to enrich my knowledge about system-level programming by building the shell from scratch. Initially, I will take the command prompt from the user. Later I will parse and tokenize the command line and sort out the commands and respective arguments. Then I will check whether the parsed command is built-in or an external command for further execution. If the command is built-in I will simply execute the command and show the result in stdout/stderr. Otherwise, for external commands, I will have to search for the executable file in the system and then I will execute the command and demonstrate the result as stdout/stderr. Then they will again enter another command prompt and this process will be continued till the user exits the program. And this process of Read-Evaluate-Print-Loop is known as REPL in terms of shell process execution. The process diagram is as follows:



Languages or Tools to be used: C++

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

Signature of the supervisor:

Date: 07/01/2022

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: