ENSE 452 - Lab 4
CLI Part 3 on the Target

Trevor Douglas
Software Systems Lab Instructor
University of Regina

1 Objective

The objective here is to improve our Command-Line Interface (CLI) and create separate windows. One window will be the status window that will indicate certain information for you. The other window will allow commands and will scrow past your window size. Of course at each step of the development, we will be paying attention to good software design principles.

2 Background

ANSI escape sequences are a standard for in-band signalling to control cursor location, color, font styling, and other options on video text terminals and terminal emulators. Certain sequences of bytes, most starting with an ASCII Escape and bracket character followed by parameters, are embedded into text. The terminal interprets these sequences as commands, rather than text to display verbatim.

For example to clear the screen, send the following escape sequence:

\x1b[2J

In order to position the cursor use this escape sequence:

\x1b[0;0H

Another good one for this lab is to create a scroll window:

\ x1b[10;r

HINT ** watch my video to see how to create the scroll window

3 Procedure

Create a new Lab4 subdirectory inside your repository and create a new project.

3.1 Create the new CLI interface

Using the information in the videos and handout, create a CLI that has a status window that displays the status information for the board. It is up to you how you want to provide that information to the user but of course the cleaner and more concise the better. The command scroll window should appear below this window and provide a command prompt for the user to submit requests. If a command comes in it should be acted on and the status window updated immediately.

3.2 Tagging

In the previous lab I demonstrated tagging. There is also some references in URCourses. Please tag your assignment as Lab4Submission. Make sure this gets pushes to the remote.

4 What To Submit

Nothing! Just make sure to use your repository accordingly.