Team Members: González, Francisco

Khan, Nabeelah

Patel, Dhruv

Github Repository

<https://github.com/fgonza21/Assignment-4>

Application Overview: Animated Histogram making substantial use of the libplot library.

User provides data through a txt file to be displayed in a histogram. The file will also include labels for the axes. The histogram will display the number of occurrences of a particular item.

The display will use libplot to display labels for both axes. The display will also animate the growth according to the data provided in the text file.

Library Support: libplot library

The libplot library will allow us to animate the growth of the bars in the histogram.

Useful Resources:

<http://ftp.gnu.org/old-gnu/Manuals/plotutils-2.2/html_chapter/plotutils_9.html>

<https://www.gnu.org/software/plotutils/manual/en/html_node/libplot-Overview.html#libplot-Overview>

Partitioning: Modules:

Abstract Data Types and associated source file (i.e. header file) – used to store user input data – Dhruv Patel

Graphical User Interface – used to animate and display user input data – Nabeelah Khan

Implementation – Prompting for a txt file which includes data. Reading, parsing, and storing user data – Francisco González

Abstract Data Types and related functions will be used to store user input data. These Data Types will be hidden from the client program. The client program will parse the user input data. The user will be prompted for a text file containing data to be displayed. The Graphical User Interface will display and animate the user input data.