CPS 501 Final Individual Programming Project

By Sai Harika Kunaparaju(101739921)

I have analyzed and implemented the interactive graphical user interface using JavaFx for Roesch Library. I have implemented some of the functions like Borrowing a book, Returning a book, List the available books in library and printing the receipts when the books are returned.

One of the major challenges we have faced while writing to the files and accessing it and for easy accessing of contents in the file. Also, we have faced issues by setting up the scene builder to borrow and return books. After some effective time, i have visualized my UI with help of paper, pen and implemented using list, buttons, labels and for writing and reading into the file I have used printWriter java class. I have used a data structure array for manually creating list of books in the library and using borrow, return methods of Book class.

By doing this project I have gained practical knowledge on implementing real-time problems and got introduced to many new concepts likes files, java fx gui.