Project Design
May 18, 2015

UML Class Diagram

HTMLCode
- fwriter : FileWriter - outputFile : PrintWriter - webpage : File
+ HTMLCode() + htmlSetup() : void + pageTitle(input : String, size : int, style : String) : void + bodyContent(input : String, style : String) : void + addPicture(photo : String, style : String, align : String) : void + finalizePage() : void + openPage() : void

HTMLStyle
- fwriter : FileWriter - outputFile : PrintWriter
+ addTextStyles(color : String, align : String) : String + addPhotoStyle(size : int) : String + addBackgroundPhotoStyle(image : String) : void + addBackgroundColorStyle(color : String) : void + clearExternalStyles() : void

Project Design
April 27, 2015

For my Java semester project I am planning a custom text to HTML/CSS generator program. I would like to build a program that converts either string input from the user, or pre-existing text file input, and outputs a functional HTML file that can be opened in any internet browser. The generated HTML code will also be accompanied by CSS code determined by the program according to the user's preferences. The program will first present a menu where the user has two options: to specify a text file to be converted or to enter new string data from scratch. The program will also prompt the user for his or her style and formatting preferences to customize the web site's organization and appearance.

This project will include at least two custom classes. An HTML class will contain various methods for converting string data to HTML code. It will have methods for creating web page headers, paragraphs, pictures, and possibly more. This HTML class will be responsible for a few different fields of string data corresponding to different sections of the web page to be generated. A second CSS class will contain methods for styling the HTML code with size, color, alignment, padding, and possibly other parameters. It will be responsible for a few string and number fields corresponding to user design preferences. A third webpage class might be responsible for taking the generated HTML/CSS code and writing it to a new text file (FileWriter/PrintWriter) that will finally become an HTML output file.