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CPSC 498 Fall 2021

Prof. Scott McElfresh

November 22, 2021

System Vision Document

The chain puzzle generating website project is a website that creates a set of puzzles based on user input. Specifically, it is a project that consists of a website interface that a user can input a sentence into and select different puzzle types from a set of options. The website interface passes the sentence and puzzle type selections to a secondary webpage when the user selects the generate puzzle button. This secondary webpage will then deconstruct the sentence into individual words. The individual words are then sent to functions based on the puzzle types that were selected. These functions, then, generate the puzzles and add them to the final output. The culminating solution to each puzzle, is a word from the originally inputted sentence. To find the original sentence, all of the puzzles must be solved and their solutions combined. When the user selects the download puzzle button, a print popup appears and prompts them to print the puzzles. When the user selects the download solutions button, a popup will appear, prompting the user to print the puzzle solutions. This offers the option of downloading the puzzles as a PDF file or directly printing the puzzles. Each puzzle and solution are printed on its own individual page so that they can easily be distributed among individuals. If an error occurs while generating the puzzles, an error message will be outputted on the print screen asking the user to try again. Additional webpages are assessable through the taskbar. These webpages include descriptions of each puzzle type: Acrostic puzzles, Double puzzles, Drop Quote puzzles, Word Search puzzles, and Conjunction Junction puzzle types.