**PROJECT EVALUATION**

**Dataset & Input:**

The dataset for the system is a JPEG image which has one word in Calibri font in black color. A sample of the input and the corresponding output are given below:

**Case 1:**

**Input:**



**Output:**



**Case 2:**

**Input:**



**Output:**



**Intermediate output:**

The intermediate output consists of binarized image of the corresponding input image. It is obtained using Canny’s edge-detection algorithm.

**Evaluation:**

The evaluation of the project is done using the correctness of the word extracted from the image by considering various possible words of the font Calibri ,words with font of Calibri family like Calibri bold,Calibri italic and Calibri bold italic

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| --- | --- |
| INPUT | EVALUATION |
| 1)Normal Calibri | The word is correctly recognized as briidge and the word closest to the misspelt word is given as bridge.The actual outcome is the expected outcome |
| 2)Bold Calibri | The word is correctly recognized as briidge and the word closest to the misspelt word is given as bridge.The actual outcome is the expected outcome |
| 3)Italic Calibri | The word is not recognized correctly. There are some letters misconceived by the software. For example,o is recognized as 0.Since the word is not recognized correctly, correct spelling is not predicted |
| 4)Bold Italic Calibri | The word is not recognized correctly. There are some letters misconceived by the software. For example,o is recognized as 0.Since the word is not recognized correctly, correct spelling is not predicted |

**Sample Test Cases:**

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| --- | --- | --- | --- | --- |
| TEST CASE ID | SCENARIO NAME AND DESCRIPTION | INPUT | EXPECTED OUTPUT | REMARKS  (IF ANY) |
| TC1 | Binarization | Color image or Grayscale image | Black and White image. |  |
| TC2 | Binarization | Black and White Image | Already Binarized | A binarized image is already inputted. No need to binarize |

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| TEST CASE ID | SCENARIO NAME AND DESCRIPTION | INPUT | EXPECTED OUTPUT | REMARKS  (IF ANY) |
| TC1 | Character Recognition | Segmented Character image | The character’s name depending on its pixel sum. |  |
| TC2 | Wrong character  (Eg not human readable)  Alternative flow: No character | Invalid character or no character | Input a valid character image. |  |

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| TEST CASE ID | SCENARIO NAME AND DESCRIPTION | INPUT | EXPECTED OUTPUT | REMARKS  (IF ANY) |
| TC1 | Spell Check | Recognized word | Corrected word (if spelling is wrong) |  |
| TC2 | No input (or) input word in any other language other than English | Non-English word entered | Enter valid English word | Word in some other language or no word at all is entered. |