**Technical Design Document**

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**Program Description:** Takes the users input message and determines whether or not the message is a spam email.

**Functions used in the Program (list in order as they are called):**

1. **Function Name:** Calculate\_Spam\_Score

**Description**: Function that allows the scoring system to work. Words used in the spam\_keyword get put into this code to determine the score.

**Parameters:**

Spam\_Keywords: This is the pool of words that will add to the score

Message: Input from the user to insert their message for the code to take

**Variables:**

Message\_lower: allows for upper and lowercase to work with the keywords

Score: counts how many keywords were in the input message

**Logical Steps:**

1. Takes the input message and looks over it for any words in spam\_keywords
2. If a word is in the pool, the score increases by 1. If not, it does not increase and it checks the next word in the message
3. Stores the score and uses it for the next function

**Returns:**

return score, matched\_keywords

2. **Function Name:** rate\_spam\_likelihood

**Description:**

**Parameters:**

Score: The number of points that get added based on the message having a word from the Spam\_Keywords or not

**Variables:**

None (uses the score)

**Logical Steps:**

1. Takes the score from the first function
2. Chooses the printed result depending on what the score is for its value range
3. Prints the chosen result

**Returns:**

String of code that gives the user the printed results (dependent on the score)

**Logical Steps:**

1. User inputs their message of the email they have gotten
2. The first function takes that message and checks each word to see if they are on the list of spam messages or not
3. For every spam message found it adds a score of 1 for the second function. If none are found, it stays at 0
4. Second function takes the score and chooses the message to print depending on what the value of the score is.
5. Prints out the message for the user and details the score and if the message is spam or not.

**Link to your repository:**

**Output Screenshot: (make sure big enough so I can see)**

**A screen shot of a computer

AI-generated content may be incorrect.**