**Technical Design Document**

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**Program Description**

The purpose of this program is to calculate the likelihood that the message the user enters is spam based on the number of spammy keywords they use.

**Function Name:** calculate\_spam\_score ()

**Description:**

The purpose of this function is to calculate the user’s spam score.

**Parameters:** message—represents the content of the user’s message.

**Variables:**

1. Message—converts the email to lower case
2. Spam\_score—represents the number of spam keywords/phrases used
3. Spam\_keywords—stores the spam keywords
4. Keyword—iterates over SPAM\_KEYWORDS list

**Logical Steps:**

1. Create a function to calculate spam score
2. Initialize the variables
3. Add each keyword to the spam score

**Returns:** the spam score and keywords

**Function Name:** spam\_likelihood ()

**Description:**

The purpose of this function is to predict the likelihood that the content is spam.

**Parameters:** spam\_score—represents the spam score of the user’s message.

**Variables:** spam\_score—represents the user’s spam score.

**Logical Steps:**

1. Create a function to check spam likelihood
2. Determine how likely the message is to be spam based on the number of keywords it contains

**Returns:** the likelihood that the email is spam

**Function Name:** main ()

**Description:**

The purpose of this function is to prompt the user for a message and display the likelihood that it’s spam.

**Parameters:** none

**Variables:**

1. User\_message—stores the user’s message
2. Spam\_score—stores the number of spam keywords used
3. Keywords—stores the spam keywords
4. Likelihood—stores the likelihood of spam
5. Word—iterates through each keyword

**Logical Steps:**

1. Prompt the user for a message
2. Display the spam likelihood and spammy keywords used

**Returns:** the spam results

Repository: [COP2373\_Repository](https://github.com/KarinaChorna/COP2373/upload/main)

A screenshot of a computer

AI-generated content may be incorrect.