**Technical Design Document Template**

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**Program Description:**

This program accepts a user’s email as an input, scans it for commonly used spam phrases, and gives the user a likelihood of the email being spam.

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

1. **Function Name:** main

**Description:** Main function that sets up a loop and calls other functions

**Parameters:** none

**Variables:** email (the email input by user), loopbool (controls while loop), matched (list of words that match common spam phrases)

**Logical Steps:**

1. Initialize variables
2. Set up while loop
3. Call various functions
4. Ask user if they want to continue
5. Loop if user desires

**Returns:** none

2. **Function Name:** get\_email

**Description:** Gets email input from user

**Parameters:** email

**Variables:** email

**Logical Steps:**

1. Get user input
2. Use lower() function on input

**Returns:** email

3. **Function Name: spam\_scan**

**Description:** checks email for common spam email phrases based on list & adds them to another list for the score

**Parameters:** email, matched

**Variables:** spam\_list (list of spam words), email, matched

**Logical Steps:**

1. Initialize spam\_list
2. Check each word from spam\_list in email
3. Append these words to matched variable if they appear in the email

**Returns:** matched

4. **Function Name:** spam\_score

**Description:** makes score to check if email may be spam and informs user.

**Parameters:** matched

**Variables:** score (how many words matched, likelihood of spam)

**Logical Steps:**

1. Get number of matching words from matched
2. Use if statement to print messages corresponding to various scores
3. Print matched list

**Returns:** none

**Logical Steps:**

1. Call main()

**Link to your repository:** <https://github.com/AlexanderMasucci/COP2373>

**Output Screenshot: (make sure big enough so I can see**  
**A screen shot of a computer

AI-generated content may be incorrect.**