**Technical Design Document Template**

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**Program Description:**

This program lets the user enter a phone number, social security number, and zip code, and then validates if what the user input could actually be a phone number, social security number, and zip code.

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

1. **Function Name:** main

**Description:** This function is the foundation of the program and is responsible for getting the user’s information and displaying results.

**Parameters:** None

**Variables:** phoneNumber: This variable holds the user’s phone number.

ssn: This variable holds the user’s social security number.

zipCode: This variable holds the user’s zip code.

**Logical Steps:** The function asks the user for their information, then passes each of these pieces of information through the validation functions, and then it displays the results.

**Returns:** None

2. **Function Name:** validate\_phone\_number

**Description:** This function makes sure that what the user entered for their phone number could be an actual phone number.

**Parameters:** phoneNumber: A string variable

**Variables:** phoneNumber: holds the user’s phone number.

format: holds the format that the phone number should be in.

**Logical Steps:** The function receives the phone number that the user entered, then it checks to see if the phone number matches the correct format.

**Returns:** The function returns a true or false value depending on if the user’s phone number is the correct format or not.

3. **Function Name:** validate\_ssn

**Description:** This function makes sure that what the user entered for their social security number could be an actual social security number.

**Parameters:** ssn: A string variable

**Variables:** ssn: Holds the user’s social security number.

format: Holds the format that the social security number should be in.

**Logical Steps:** The function receives the ssn that the user entered, then it checks to see if the ssn matches the correct format.

**Returns:** The function returns a true or false value depending on if the user’s ssn is the correct format or not.

4. **Function Name:** validate\_zip\_code

**Description:** This function makes sure that what the user entered for their zip code could be an actual zip code.

**Parameters:** zipCode: A string variable

**Variables:** zipCode: Holds the user’s zip code.

format: Holds the format that the zip code should be in.

**Logical Steps:** The function receives the zip code that the user entered, then it checks to see if the zip code matches the correct format.

**Returns:** The function returns a true or false value depending on if the user’s zip code is the correct format or not.

**Logical Steps:**

1. Main function
2. Validate functions
3. Back to main function

**Link to your repository:** <https://github.com/Philip7454/COP2373>

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

A computer screen with numbers and numbers

AI-generated content may be incorrect.