**Technical Design Document Template**

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**Program Description:**

This program will validate your social security number, phone number and zip code using regular expressions. The program will ask the user for the following three then display whether each is valid or not.

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

1. **Function Name:** validate\_phone(phone\_number)

**Description:** Validates whether the phone number matches the pattern

**Parameters:**

* phone\_number - str

**Variables:**

* PHONE\_PATTERN – constant str

**Logical Steps:**

* Define a pattern for a valid phone number
* Checks the user’s input if it matches the pattern

**Returns:** True or False depending on the validation of the phone number pattern

2. **Function Name:** validate\_ssn(ssn)

**Description:** Validates whether the social security number matches the pattern

**Parameters:**

* ssn - str

**Variables:**

* SSN\_PATTERN – constant str

**Logical Steps:**

* Define a pattern for a valid social security number
* Checks the user’s input if it matches the pattern

**Returns:** True or False depending on the validation of the social security number pattern

3. **Function Name:** validate\_zip(zip\_code)

**Description:** Validates whether the zip code matches the pattern

**Parameters:**

* zip\_code - str

**Variables:**

* ZIP\_PATTERN – constant str

**Logical Steps:**

* Define a pattern for a valid social security number
* Checks the user’s input if it matches the pattern

**Returns:** True or False depending on the validation of the zip code pattern

4. **Function Name:** main()

**Description:** Asks the user for their phone number, social security number and zip code, calls the functions that validate each number and display the results.

**Parameters:** none

**Variables:**

* phone\_number – str
* ssn – str
* zip\_code - str

**Logical Steps:**

* Asks the user to input their phone number, SSN, and zip code
* Calls each function that validates the three
* Displays whether each of the inputs are valid or not

**Returns:**

**Logical Steps:**

1. Starts at calling the main function
2. The main function calls out the validation functions for the phone number, SSN, and the zip code
3. The functions validate and come back true or false
4. Finally displays whether each input is valid or not

**Link to your repository:** <https://github.com/Roboriko/PythonCOP2373>

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

**A black screen with a black background

AI-generated content may be incorrect.A black screen with white lights

AI-generated content may be incorrect.**