**Technical Design Document**

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**Program Description**

The purpose of this program is to determine if the phone number, social security number, and zip code that the user enters are valid.

**Function Name:** is\_valid\_phone(phone)

**Description:**

The purpose of this function is to validate the phone number the user enters.

**Parameters:** phone—represents the user’s phone number

**Variables:** pattern—stores the compiled regular expression

**Logical Steps:**

1. Define a pattern
2. Match the input string to the pattern
3. Return Boolean value

**Returns:** True or False

**Function Name:** is\_valid\_ssn(ssn)

**Description:**

The purpose of this function is to validate the entered SSN.

**Parameters:** ssn—represents the SSN that the user enters.

**Variables:** pattern—stores the compiled regular expression

**Logical Steps:**

1. Define a pattern
2. Match the input string to the pattern
3. Return Boolean value

**Returns:** True or False

**Function Name:** is\_valid\_zip(zip\_code)

**Description:**

The purpose of this function is to validate the zip code.

**Parameters:** zip\_code—represents the zip code the user enters.

**Variables:** pattern—stores the compiled regular expression

**Logical Steps:**

1. Define a pattern
2. Match the input string to the pattern
3. Return Boolean value

**Returns:** True or False

**Function Name:** main()

**Description:**

The purpose of this function is to prompt the user to enter a phone number, social security number, and zip code and display if they are valid.

**Parameters:** none

**Variables:**

1. phone—stores the user’s phone number
2. ssn—stores the user’s SSN
3. zip\_code—stores the user’s zip code

**Logical Steps:**

1. prompt the user to enter their information
2. display validation results

**Returns:** Results of whether the entered information is valid

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

A screenshot of a computer program

AI-generated content may be incorrect.