**Technical Design Document Template**

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**Program Description:**

This program asks the user if they would like to validate a phone number, ssn, or zip code and will then check to see if the number is valid according to its format

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

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

**Description:** validates phone number

**Parameters:** phone\_num : parameter for user input number

**Variables:** pattern = regular expression for phone number

**Logical Steps:** defines what regular expression should look like then validates

**Returns:** prints valid or invalid

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

**Description:** validates ssn

**Parameters:** ssn : parameter for user input number

**Variables:** pattern = regular expression for ssn

**Logical Steps:** defines what regular expression should look like then validates

**Returns:** prints valid or invalid

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

**Description:** validates zip code

**Parameters:** zip\_code : parameter for user input number

**Variables:** pattern = regular expression for zip code

**Logical Steps:** defines what regular expression should look like then validates

**Returns:** prints valid or invalid

**Function Name:** main()

**Description:** displays message for user and calls correct validation function

**Parameters:** none

**Variables:**

Choice = which validation function the user wants to call

User = number that is put into validation function

**Logical Steps:**

Print statements for user

Ask for input

Call correct validation function

**Returns:** none

**Logical Steps:**

1. Main
2. Correct validation function depending on user’s decision

**Link to your repository:** <https://github.com/jace-walker/COP2073>