



## Assignment - V1:

Write a Program to send **Text Message and Email** by reading fields - **Message, email id, phone number and Country** from a given **CSV file**. Refer example below:

Message	Email	Phone	Country	Schedule On
Hi , Lorem ipsum dolor sit amet	abc@foo.com	9800112345	USA	12-05-2020
Hi , Lorem ipsum dolor sit amet	xyz@foo.com	4442124678	INDIA	15-05-2020

### Description:

1. A Message can be sent either as Email, Text Message or both.
2. Message length should be > 1 and <=160 characters if it has to be sent as a Text Message.
3. Phone number should be integer & length should be 10.
4. Email can be sent only to a Valid email address.
5. Text Messages can be sent only during the day (10AM to 5PM) in respective time zone
6. Sending Email will not have time Restrictions.
7. Duplicate messages should not be sent.
8. Assume only 2 countries in the country field as USA or INDIA.
9. Schedule messages for future date, if date is added in **Schedule On** column, if not then send a message immediately.
10. Success or Failure needs to be written to a text file with the reason for Failed Message.

### Input

- CSV with Below fields:  
Phone Number, Email Id, Message, country.
- Sample CSV : [sample.csv](#)



### **Output**

Text file with **Success or Failure**, failed messages should have a reason for failure.

### **Note :**

- Sending Email or Text message can be assumed as Success if all the conditions are Satisfied.
- **Option 10 (Optional)** : Do you want to impress the assignment evaluator? If yes then it would be great to trigger real text messages using SMS Magic APIs, which would allow you to send SMS. Find the link to SMS magic API doc below

**API DOC :** [https://api.sms-magic.com/doc/#api-Send\\_SMS-Send\\_SMS\\_\\_post](https://api.sms-magic.com/doc/#api-Send_SMS-Send_SMS__post)

### **Guidelines:**

- Any other assumptions should be clearly stated
- You can pick any language of your choice to complete this assignment and follow coding standards as applicable to the language
- You are expected to follow SOLID principles of OOD
- You could simply zip your code or follow any packaging methods you wish but DO INCLUDE a README file with instructions on how to execute or use your application
- Best practices link - <https://stackoverflow.blog/2020/03/02/best-practices-for-rest-api-design/>