

REPORT – SMS WEBSITE USING TWILIO

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This is a simple SMS sending app which takes the desired message as an input and send the same to the verified phone number.

Twilio was used for API integration and Python was used as the programming language. The website has been built using Flask.

Initial steps included creating a Twilio account which provides the user with an authentication id, authentication token and phone number. Based on this information you can integrate the API.

Later on, the form to enter desired message with a submit button was created and the action part of the form links to the function in app.py.

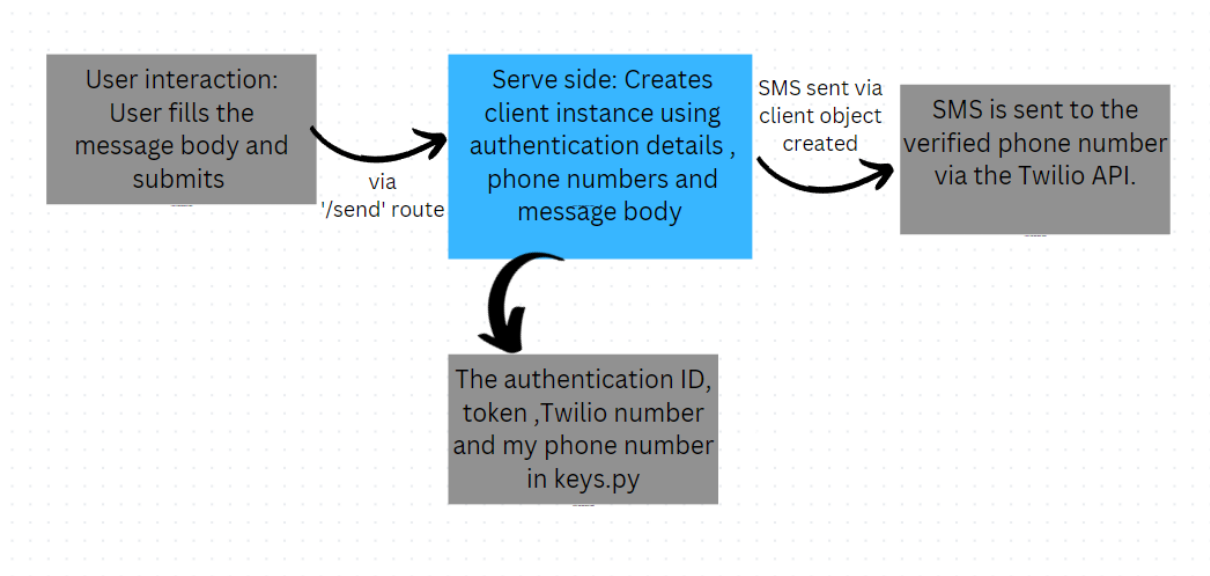
The entered details by the users are fetched along with authentication ID, token, Twilio number and your phone number. Only the message body is fetched from the form and the rest information is fetched from a file called keys.py which contains Twilio account details. The submitted form data (message body) is sent as a POST request to the '/send' route of the Flask application.

As you can observe in the app.py the function Client of Twilio library is used to interact with Twilio API and takes the authentication ID and token as arguments. It creates a Client instance using the authentication details passed.

The Client uses messages.create function to send the message to the verified phone number given by the Twilio.

The website is hosted on the localhost:5000 after running it using the "python app.py" command.

The dataflow of the program looks as simple as this:

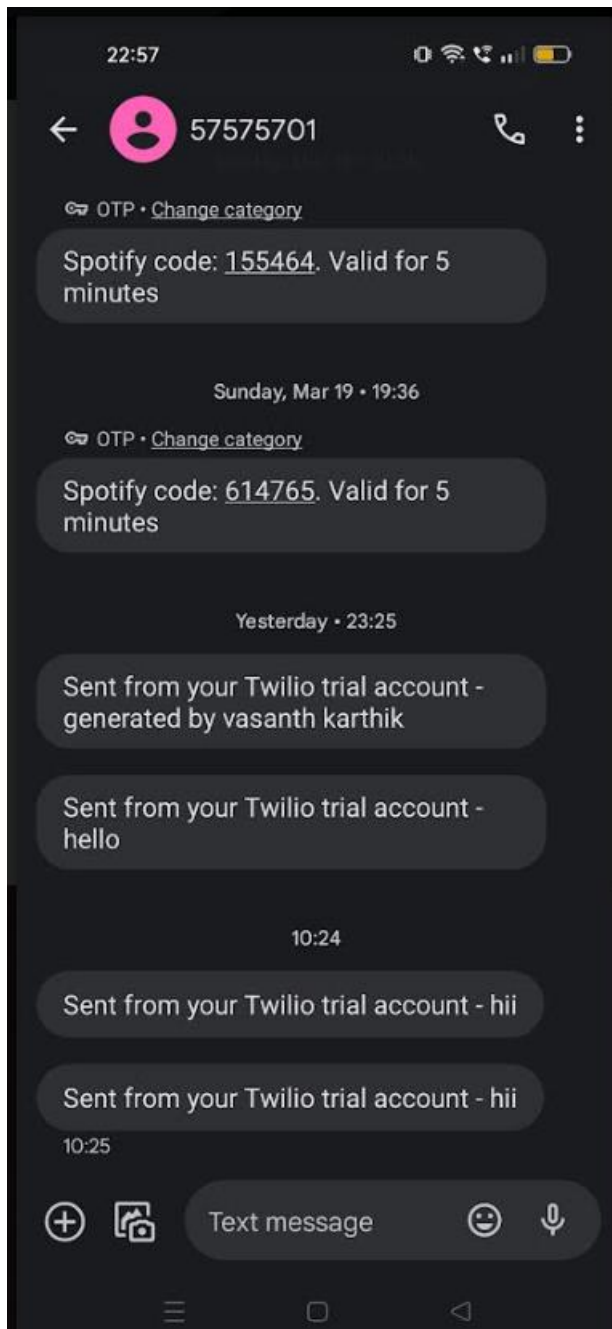


These are the screenshots of the website and the message sent by Twilio:

WEBSITE :

A screenshot of a web browser showing a form titled "Send Message". The browser's address bar displays "localhost:5000". The form has a label "Message body:" above a large, empty text input area. Below the input area is a button labeled "Send Message".

The messages will be sent in the following format when you click on submit with the desired message body:



The code files: (Note: keys.py just contains the auth id, token, phone number and twilio phone number).

APP.PY:

```
from flask import Flask, render_template, request
from twilio.rest import Client
import keys

app = Flask(__name__, template_folder='templates')

@app.route('/')
def home():
    return render_template('index.html', twilio_number=keys.twilio_number)

@app.route('/send', methods=['POST'])
def send_message():
    phone_number = keys.my_phone_number
    twilio_number = keys.twilio_number
    message_body = request.form['message_body']

    client = Client(keys.account_sid, keys.auth_token)

    message = client.messages.create(
        body=message_body,
        from_=twilio_number,
        to=phone_number
    )

    return 'Message sent successfully'

if __name__ == '__main__':
    app.run()
```

INDEX.HTML:

```
<!DOCTYPE html>
<html>
<body>
    <h2>Send Message</h2>
    <form method="POST" action="/send">
        <label for="message_body">Message body:</label><br>
        <textarea id="message_body" name="message_body" rows="5"
cols="33"></textarea><br><br>
        <input type="submit" value="Send Message">
    </form>
</body>
```

</html>