

# SMS App Features and Code Snippets

## Features

1. Message Sending: Send SMS messages to any phone number worldwide.
2. Message Templates: Predefined templates for recurring messages with dynamic placeholders.
3. Delivery Reports: Track the status of sent messages with notifications for failures.
4. Bulk Messaging: Send SMS to multiple recipients in a single request.

## Code Snippets

### 1. Sending an SMS (Node.js Example)

```
const twilio = require('twilio');

const accountSid = 'your_account_sid';
const authToken = 'your_auth_token';
const client = new twilio(accountSid, authToken);

client.messages
  .create({
    body: 'Hello! This is a test message from the SMS app.',
    from: '+1234567890',
    to: '+0987654321',
  })
  .then(message => console.log(`Message sent! SID: ${message.sid}`))
  .catch(error => console.error('Error sending SMS:', error));
```

### 2. Sending Bulk SMS (Python Example)

```
from twilio.rest import Client

account_sid = 'your_account_sid'
auth_token = 'your_auth_token'
client = Client(account_sid, auth_token)

recipients = ['+1234567890', '+0987654321']

for number in recipients:
    message = client.messages.create(
        body='This is a bulk SMS test.',
        from_='+11234567890',
        to=number
    )
    print(f"Message sent to {number}. SID: {message.sid}")
```

### 3. Handling Delivery Reports (Webhooks in Node.js)

```
const express = require('express');
const app = express();

app.use(express.urlencoded({ extended: true }));

app.post('/sms/status', (req, res) => {
  const { MessageStatus, To } = req.body;
  console.log(`Delivery status for ${To}: ${MessageStatus}`);
  res.sendStatus(200);
});
```