

Suppose your parent has allotted a task to you to check the water level in the plant daily and water them if required. Isn't it very boring and tiresome? What if you get an SMS on your mobile telling that water level in your plant is very less and need water immediately. Sounds Interesting right!! But how can it be done?

This can be achieved with the help of Bolt and a third-party company named 'Twilio'.

So in this lesson, we will learn about Twilio and how to create an account on Twilio.

Introduction to Twilio

Twilio is a third-party SMS functionality provider. It is a cloud communications platform as a service (PaaS) company. Twilio allows software developers to programmatically make and receive phone calls and also send and receive text messages using its web service APIs.

Please note that SMS delivery via a trial Twilio account is not guaranteed to be instant by Twilio. Also, note that SMS will not be sent to numbers which have DND(Do Not Disturb) turned ON.

Creating an account on Twilio

Step 1: Open <https://www.twilio.com/> (<https://www.twilio.com/>) in browser.

Step 2: Click on Get a Free API Key (<https://www.twilio.com/try-twilio>) button to sign up.

Step 3: Fill all the necessary details in SIGN UP form. Below is the screenshot of filled sign up form.

Sign up for free

Strong

WHICH PRODUCT DO YOU PLAN TO USE FIRST?

SMS

← Choose SMS option here

▼

WHAT ARE YOU BUILDING?

Account Notifications

← Choose account Notification option here

▼

CHOOSE YOUR LANGUAGE

Python

← Choose python as a language

▼


POTENTIAL MONTHLY INTERACTIONS (OVER SMS, CHAT, VOICE, & VIDEO)

Less than 100,000

▼

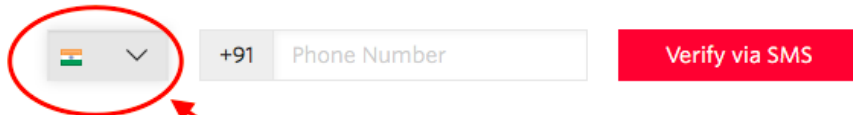
☐

I'm not a robot



Step 4: To verify they will ask for your phone number. Choose India as an option in the dropdown and then enter your phone number.

We need to verify you're a human.

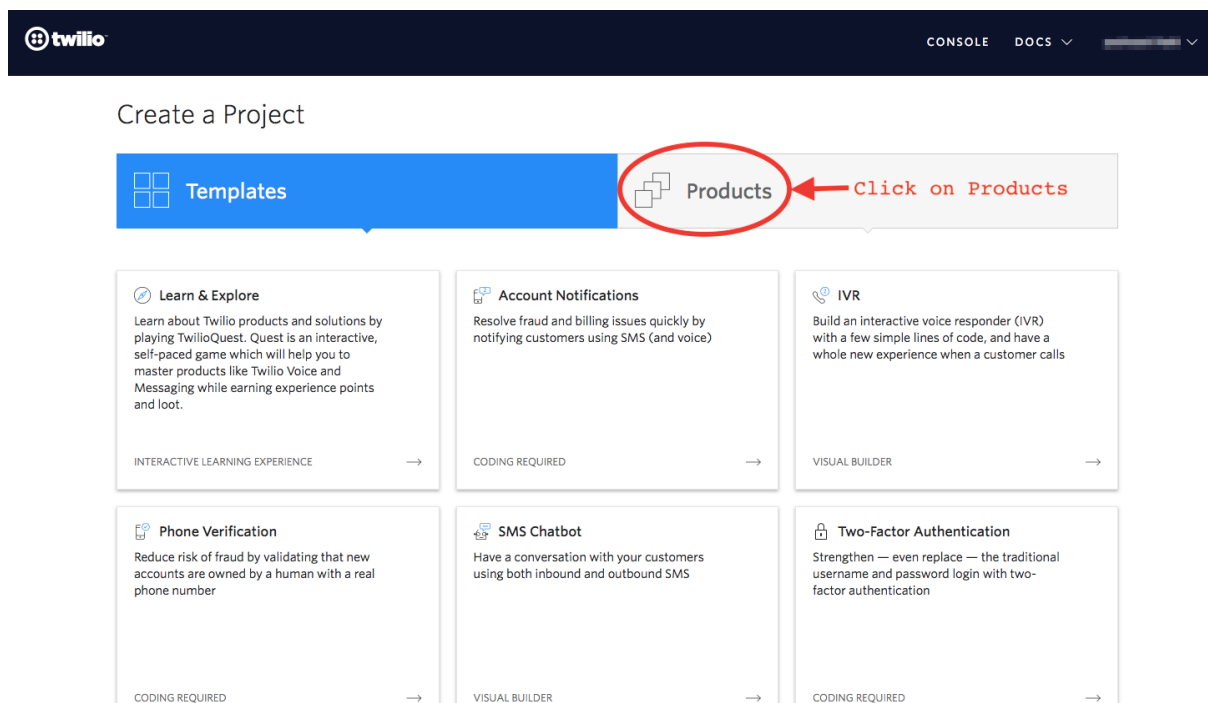


We will send a verification code via **SMS** to number above

Or, we [call you instead](#).

- ☒ The phone number you provide will be used for authentication when you login to Twilio Console. A Twilio onboarding specialist may also use this number to reach out with free onboarding support. If you do not want to be contacted at this phone number, please check this box.

Step 5: Click on "Products" as shown on the screen below,



Step 6: Now enable the SMS services by clicking on two checkboxes for Programmable SMS and Phone Numbers as shown below.

twilio

CONSOLE DOCS

Create a Project

Templates Products

Choose all that apply

COMMUNICATIONS CLOUD

1. Select this checkbox

2. Select this checkbox

Programmable SMS

Build intelligent SMS logic and apps in web applications over local, toll-free, and short-code numbers globally from one API.

Phone Numbers

Instantly acquire local, national, mobile, and toll-free phone numbers in nearly 50 countries with one API.

Programmable Voice

Twilio's voice application stack combines the power of advanced call control, global connectivity, and RESTful APIs. It's an all-in-one phone call powerhouse designed for instant scale, flexibility, and cost-effective communications.

Elastic SIP Trunking

Instantly provision voice connectivity for IP-based communications infrastructure to connect to the PSTN, for making and receiving telephone calls to the 'rest of the world' via any broadband public or private connection.

Continue

Once you have done this, scroll to the bottom of the screen and click on "Continue".

twilio

CONSOLE DOCS

Create a Project

Templates Products

Choose all that apply

COMMUNICATIONS CLOUD

Notify

Twilio Notify makes it easy to send notifications to your users when and how it is most convenient for them.

Proxy

Twilio Proxy enables two way communications between your users across multiple channels with less code.

Studio

Studio is a visual interface used to design, deploy, iterate, and scale communication workflows

Continue

Scroll to bottom and click on Continue

Step 7: Now, you will need to give a name for your project. I have given the name as My Project. Click on "Continue" once you have entered the project name.

Custom Project

Give your project a name

You can make changes later if you need to.

PROJECT NAME

1. Enter a project name

< Go Back **Continue** Skip Remaining Steps

Step 8: Click on "Skip this step" when it asks you to Invite a Teammate.

Custom Project

Who do you want to build it with?

You don't have any teammates yet

Invite your team to this project. If you think other users would be interested in tracking your progress or can help you build it, you can invite them to Twilio with a variety of permissions. You can also manage the users associated with your project at any time from the Project Settings page.

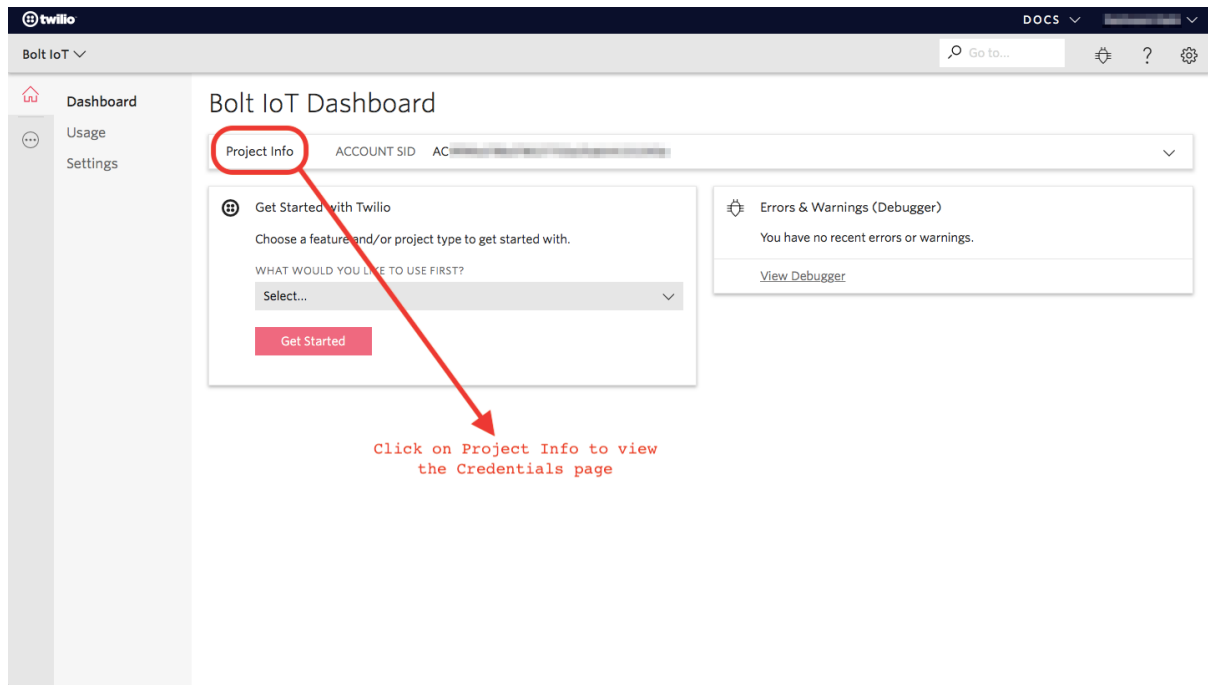
For more information about managing users and project roles please visit our [Help center](#) ↗

Invite a Teammate

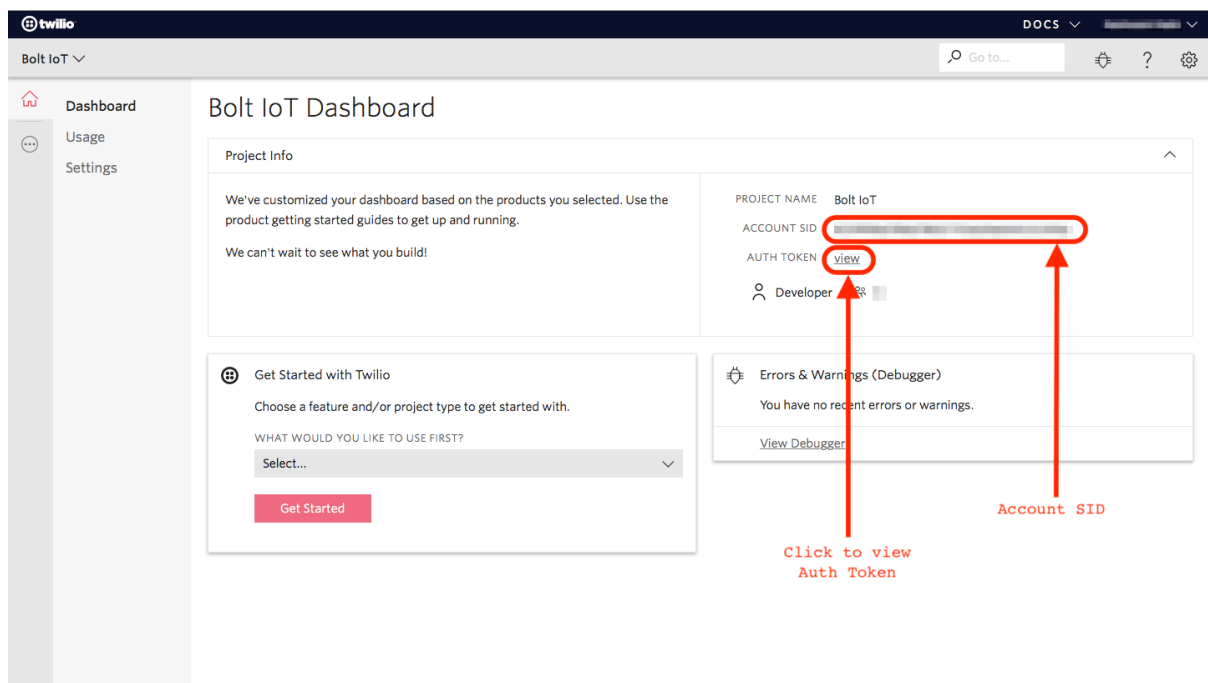
Click to skip this step

< Go Back **Invite Selected** **Skip This Step**

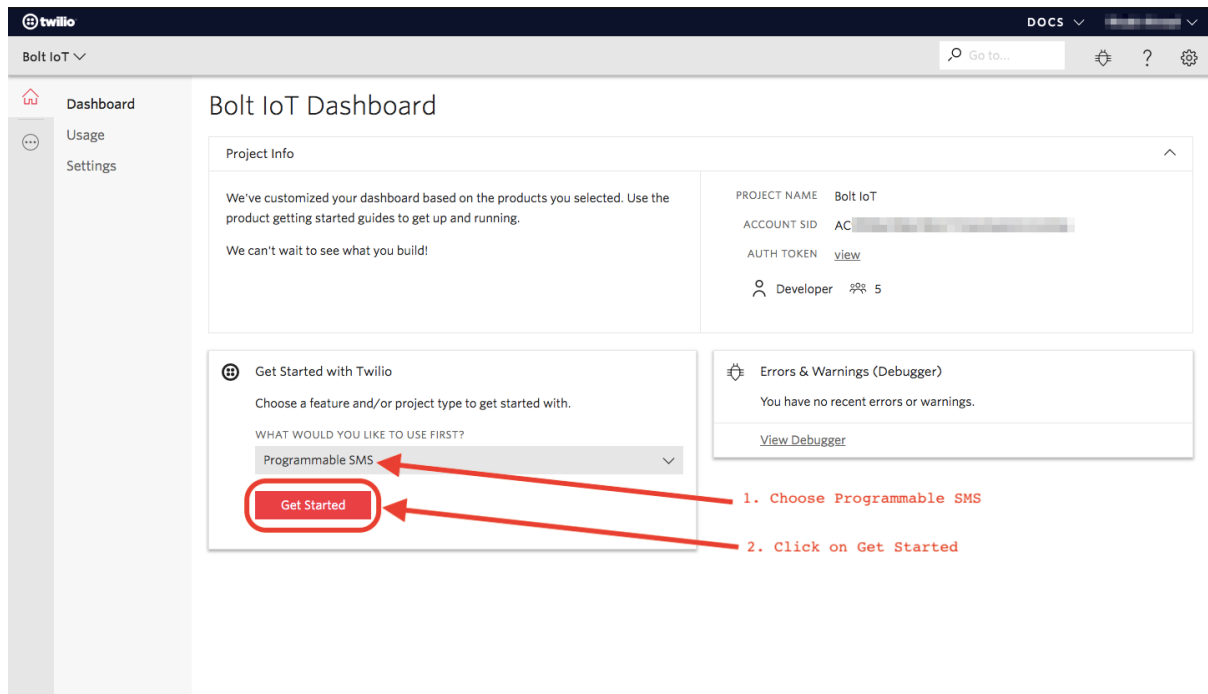
Step 9: Your project should be created at this point. Click on "Project Info" to view the account credentials which is required for your projects.



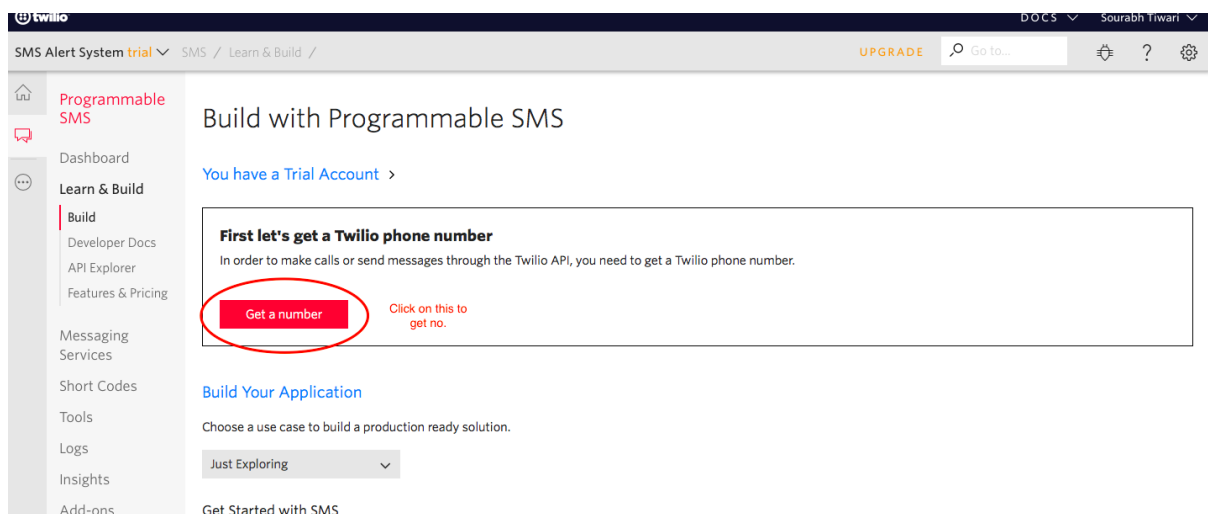
Step 10: You can view the Account SID and Auth token on this page. The Auth token is not visible by default, you can click on "view" button to make the Auth token visible as shown below. Copy both and save them somewhere securely.



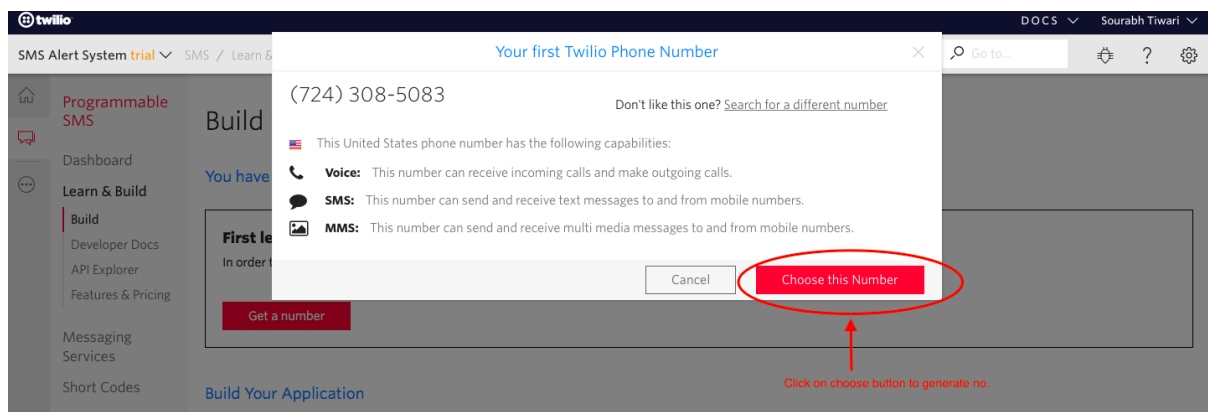
Step 11: From the drop-down menu, choose "Programmable SMS". Now click on Get Started button to generate phone number.



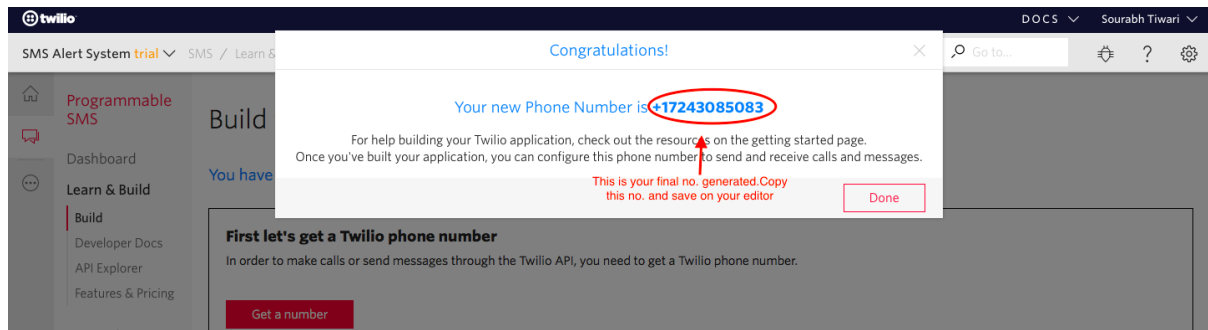
Step 12: Click on Get a number button.



Step 13: Then a popup will appear. Click on Choose this number button.



Step 14: Then a popup will appear which will have the final number. Copy this number and save to notepad for future references.



That's it. You have successfully created the account on Twilio. In the next lesson, we will use Bolt Python library to create our own SMS Alert system.

PREV

NEXT

Forum

Type your query here

SEARCH

Q. I am not able to sign into the Twilio account, it is like I have to solve the CAPTCHA in order to sign in? What is meant by CAPTCHA?

Here is a video which will explain to you what is a CAPTCHA: <https://www.youtube.com/watch?v=MWu2UiLLJl8>

Q. How long does the temp_sms.py code send an sms? Does it send sms only once, or does it send sms everytime the temperature goes beyond bounds?

The code will send you an sms everytime the temperature goes beyond its bounds.

However, if you execute the command

```
sudo python temp_sms.py
```

You will need to stay logged into the digital Ocean droplet for the code to keep monitoring the temperature and send you an sms.

[see more \(\)](#)

Q. When I execute temp_email it is showing unexpected indent error. How do I fix this?

In python, the leading whitespace (spaces and tabs) at the beginning of a logical line is used to compute the indentation level of the line, which in turn is used to determine the grouping of statements.

The levels number of white spaces is known as an indentation level.

If you are facing unexpected indent error, it probably means that the white spaces before and after a logical grouping of instructions is different without having any function declaration or any kind of

[see more \(\)](#)

Q. I am getting an indentation error. How do I solve it?

This means that you have not given proper indentation i.e. spaces before the start of each line of code. Do check the code given as part of the tutorial carefully and make suitable changes. I suggest you read the course content again to be sure that there are no errors.

Q. If I have multiple input-output devices how are they to be arranged? in series or parallel?

The question of using multiple input-output devices in series or in parallel only comes in if you want to sense or control these devices using a single pin of the Bolt module.

It is not recommended that you try to sense or control multiple devices using a single pin of the Bolt unit.

Using multiple input-output devices with a single pin in the right manner is a skill-intensive task, where the method depends on the devices used and desired system behaviour.

[see more \(\)](#)

[View more](#)

Ask your doubts to the instructor personally if they are not already answered on forum.

Type what you want to ask the instructor



ASK THE INSTRUCTOR