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# Introduction

#### **About Author**

Hi, I am Ankit Jayswal. Having 12+ Years of experience in various Domains like VolP | Al | ML | ChatBots Computer Vision. Core experience in Design, Develop and Deploying solutions in these technologies. My core experience is in VoIP Technology, so you might have a question about what things drag me towards Al also. So, the answer is I worked with many VoIP providers. Out of them, one of my favourites is **Twilio**. I am not a promoter of any platform here but I am just sharing my experience and journey towards AI. How exactly I moved towards this AI ChatBot technology and then towards Machine Learning prediction models and computer vision. So, gradually I came across the AutoPilot product of Twilio, as it is getting integrated with Voice channel I got interested in exploring it more. Then I created some applications of Voice IVRs for various Domains. These Voice IVRs we can say VoiceBot also work on voice commands, which can replace traditional press1 press2 IVR what we have right now in the market. Then I was inspired by the Python language as I need to explore more about Artificial Intelligence. Likewise I explored more about Data Science and Machine Learning Algorithms and predictions models. Okay, so I think this is enough information I have given about me, to relate with me while reading this book. Later in this book we will purely discuss ChatBots (based on AutoPilot Platform) Development and their practical use cases.

I am writing this content to share my Realtime experience of ChatBots Development. **And also will share some Business Ideas around it**.

I believe that If the knowledge can not be useful to real-life problems then it is not of much worth.

Those business ideas you can read and share your valuable feedback for that with me. I have given my reachability details below.

If you like any Business Idea and want to implement for yourself or someone else I will help you completely with proper source code deployment and get it all ready for you. Also if you are an Entrepreneur and interested to do business with that we can work together.

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https://www.upwork.com/freelancers/~01ced4cf7cd6c769e5?s=1044578476142100518

GitHub: https://github.com/Data-Science-Machine-Learning

#### What is ChatBot

Chatbots are Virtual Assistants that can work 24/7 for us and Answer customer queries like a Human. It is basically Artificial Intelligence which is able to understand the intent of the user query and able to Answer like a human. We can train this Intelligence based on Data we received every time by the user and make it more smarter over a time. It can be integrated with Communication Channels like Voice, SMS, WhatsApp, Facebook etc. Implementing and Utilising ChatBots capabilities Sky is the limit.

# Why ChatBot

Nowadays Chatbots are very essential for every Website to handle routine customer queries without human intervention. Chatbots can be trained as per our need and can be made capable to answer all customer questions like product service information, costing and pricing plans etc. Chatbots can help All businesses to provide quick customer support and satisfaction. There are many more benefits of chatbots and reasons to use it. That you gradually understand, as you go further in reading the book ahead.

#### How ChatBot is working

Chatbot is like an Artificial Human which accepts text or voice from the user. If it is a chatbot then it accepts text and if it is a voicebot then it accepts voice data. If it is a voicebot then text to speech and speech to text also come in the picture. It processes the natural language and predicts the user's intent. And based on intent classification the chatbot responds with specified replies. This is the basic working pattern of a chatbot.

- Accept data (text or voice)
- Text to speech, Speech to text (If VoiceBot)
- Natural Language Processing
- Natural Language Understanding
- Predicts Intent of user based on input text
- Route conversation to detected Intent
- Reply with predefined responses for the Intent

#### **Benefits of ChatBot**

- Instant Customer Support
- No Waiting Time for Customer
- 24/7 Available
- Reducing Agent's Workload (No need to Answer every customer immediately)
- Filtered Traffic reaches to Actual Agent

#### **Future of ChatBot**

If we get a chance to use such AI ChatBots on our favourite communication channels like Facebook, WhatsApp then people will love it. Instead of going to different websites and installing new applications on devices, people will love to use ChatBot services on their favourite communication channels.

As people don't have to Download here extra applications on their devices, they will also get an interactive way of talking to Intelligence. So, in the future there is a huge opportunity to work around ChatBots. Few examples are like Appointment Booking, Order Booking use cases. Assume you can book your Appointment just by chatting with a Virtual Agent that can

work for you 24/7 and guide you for your basic queries also. Assume you can book your Bus or Railway tickets over WhatsApp channel just by chatting.

#### **ChatBot Platforms in Market**

There are a lot of ChatBot frameworks available to work with from our Tech Giants like Amazon Lex, Google Dialog Flow, Twilio Autopilot and many more. These are all good and widely used frameworks nowadays.

Later in this book I will share my experience with the Twilio Autopilot framework which I used in many real time live projects for the Real requirement.

# **Types of ChatBot**

Below are two main categories we can define for ChatBots types. They are as below.

a) Conversational / Informative Chatbots

This is a very simple kind of ChatBot. It understands the user's intent and returns an appropriate reply for that. For example, someone says "I want to know about your services", "Let me know about your services", "What services your company provides" for all such occurrences Bot will give the response associated with the particular intent called "our-services",

like "We provide various Al Services for all Verticals, and these are some use cases of our services." These kinds of chatbots are very useful to resolve routine customer queries and FAQs.

b) Order taking Chatbots

These can be complex chatbots examples. Some examples are **Pizza Ordering**, **Coffee Ordering**, Any kind of **Appointment Booking** use case. Here you can build small online orders taking eCommerce stores also for your brand. Like Grocery stores, Vegetables & Fruits stores.

# **ChatBot Framework (Twilio Autopilot)**

#### **About Twilio**

Twilio is a very Robust cloud based Telephony service provider. It is much more than the only telephony service provider. A lot of voice, sms solutions and integrations are available in that. One of solutions called **AutoPilot** is the conversational AI platform provided by Twilio. That is provided with many communications channels like Voice, SMS, WebApp, MobileApp, Slack, Facebook, WhatsApp. Means once you make your Bot with that you can connect it with these many communications channels easily.

# Why AutoPilot

In the market many platforms are available but personally I like this because it has very Good structured architecture and is easily understandable. It has many customization opportunities available. Supports many programming languages in custom Development. Like PHP, Python, nodejs etc. **Mainly I need to produce valid JSON action to work with Autopilot.** 

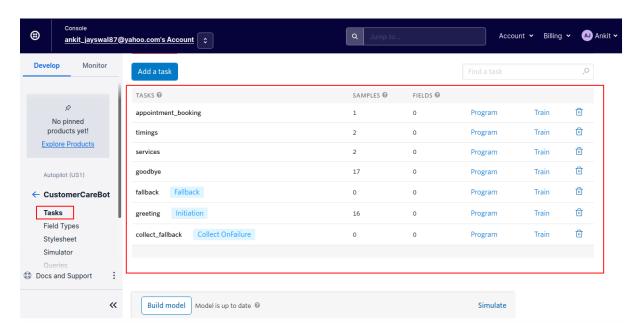
# **Autopilot Framework in Detail**

It is very easy to build ChatBots around Autopilot. It works on HTTP requests only. We just need to produce a proper JSON response for HTTP requests. These JSON responses are the actions of a chatbot that defines what to do next within a conversation. Below I will share all the valuable actions needed to build basic ChatBot to more advanced ChatBot.

Below are some key components of the framework and have given Definitions along with examples. I tried to explain it in as much simple language as possible. So, let's have a look at these components. If you are not able to understand these components 100 percent immediately, just do not worry, later all will be explained with the examples and screenshots. Obviously Practical is more understandable then Theory. Just keep reading and have some patience to learn.

#### **Tasks**

Here Tasks you can assume like the user's intent. We can create various tasks like "welcome", "goodbye", "book\_order", "change\_address", "know\_about\_services". The tasks are getting invoked or triggered by the user's input during chat. Like, if the user says "Please book my order" then the "book\_order" task will be triggered and the task will have a particular Action to be executed. Below is the image for sample tasks of Bot.



#### **Tasks Default Behaviours**

There are 3 default behaviours it provides. Basically these are the conditions on which a particular default task can be executed. Below are the default behaviours and it's description.

#### **Bot Initiation:**

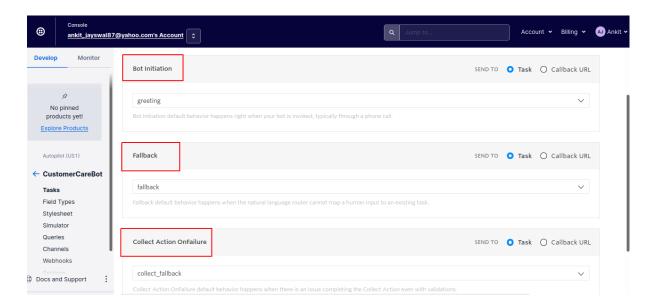
This is the starting point of your Bot. For VoiceBot this will be the starting point. This can be like a greetings task or welcome task.

#### Fallback:

This is invoked when Bot can not understand your natural language. You can select some default task when Bot is not able to understand the user input phrase. Here you can set user guiding tasks like what they can ask to Bot. E.g. I did not understand it properly. You can ask us about our services, features and book order.

#### Collect Action OnFailure:

Whenever the collect action fails to collect inputs this can be the task to be executed. Just do not worry, later all things will be explained from scratch while Building ChatBots.



#### **Field Types**

By default it provides some builtin data types. These are as follows:

YES\_NO
NUMBER
DATE
TIME
FIRST\_NAME
LAST\_NAME
EMAIL
MONTH
DAY\_OF\_WEEK
STATE
COUNTRY

CITY
CURRENCY
LANGUAGE
NUMBER\_SEQUENCE
ALPHANUMERIC etc.

Here you are also able to create your own Field Type to be recognized in tasks like **collect**. For example we can create a Custom Field Type called **CarType** and I can add values to it like Maruti, Tata, BMW.

So here CarType is the custom field and Maruti, Tata, BMW are the values of it. We can use this data type in **collect action** and we are able to validate user input with three given values, the value other than these three will not be accepted by Bot. Just like we are providing form validation in web form. You can visit this link to get more information about Field Types, https://www.twilio.com/docs/autopilot/built-in-field-types

#### **Train Task**

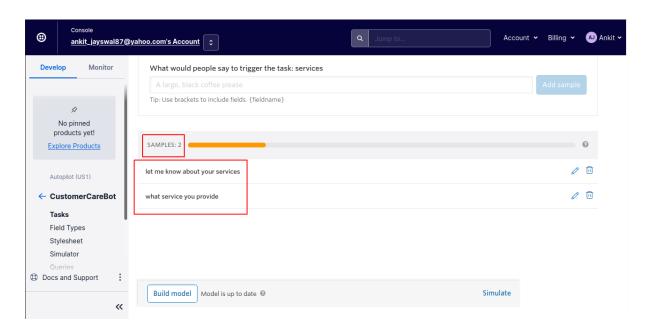
As said above, the task is invoked by some user inputs and these inputs are called sample data. We need to add more and more sample data to train our task. So our task is getting invoked properly on user input.

For example above we can add below sample data for the task to be trained,

- book my order
- please book my order
- can i book my order

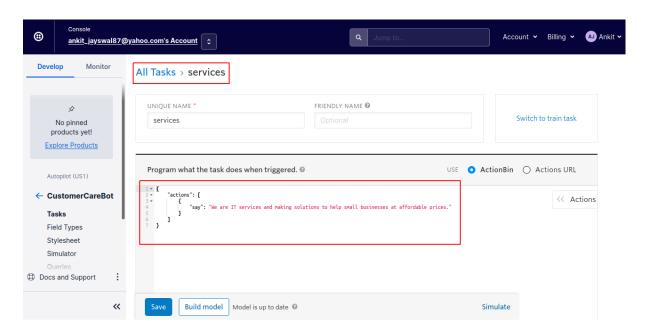
These phrases (data) are called sample data which is used to train ChatBot to make it smarter. These data we can add for the tasks defined.

In the image below I have added some sample data for the **services** task, just have a look at this. Remember **services** task, so the sample data are different in image then above mentioned data.



#### **Actions**

Every task has some Actions associated with it. These actions are the real execution of the tasks. Twilio Autopilot provides various actions to be executed, once the task is triggered. So, some of the actions are 'say', 'redirect', 'collect', 'play', 'listen', 'handoff', 'remember', 'show'. These are the Building blocks of your ChatBot. Need to pay more attention here. Need to use these parts smartly to build our chatbots effectively. Below in the image I have added Say action, just have a look at that.



#### Say Action:

This action will simply do text to speech if it is a VoiceBot and reply with a text message if it is a ChatBot. The only say action will terminate the session once executed. So this action can be used in end statements like say for example "Thank you for your Order. Your Order number is 238438" Session means every new conversation starts with some unique reference id.

#### Say Action with listen:

This will do the same as say action but will not terminate the session. It will say and then wait for user input. Once a user says something it will try to find another task to follow based on user input.

# **Play Action:**

This task plays the pre-recorded file to the caller. Works with VoiceBot.

#### **Collect Action:**

This is like a web form we fill on a website. You can assume it as a data collector that accepts different types of data. It provides some builtin data types like Number, Date, Time, FirstName, LastName, Phone number etc. So with these data types you can validate user data and accept it. For example we need to get details of visitors like Name, Number and Address then we can create one collect action which will ask all three questions and once completed it will redirect to some url to retrieve collected data and store and process.

#### **Handoff Action:**

This will work with VoiceBot only. Sometimes we need to transfer a call to a Live Agent if a customer wants to talk with a Live person. In this case we can use this action. You can call this action to finally close the Deal with the customer. Here we need to provide one URL which can produce XML output to connect (Dial) real person number.

{

#### **Redirect Action:**

This we can use to customize our response more effectively. Suppose our ChatBot works with both **Voice** and **Facebook** channels. Then our welcome message can be different for both cases like

"Welcome to ABC company, please **say** how can I help you?" for the Voice Bot and "Welcome to ABC company, please **type here** how can I help you?"

Or another example like If you lookup customer details and if an existing customer then greet with his/her name versus greet with a common message. For known customers, messages could be

"Dear, **Ankit Jayswal**. How can I help you?" and for new customer messages could be "Dear **customer**, How can I help you?"

```
{
    "actions": [
    {
        "redirect": {
        "uri": "https://mywebserver.com/welcome.php",
        "method": "POST"
    }
    }
}
```

#### **Remember Action:**

This is for storing key-value information during the conversation. It remains stored during conversation until rewrite. This value you can use later in conversation if required.

#### **Show Action:**

This action is available for providing Rich replies like you can respond with an image with proper body and message and label to it. It works with supported chatbot channels only like web, facebook.

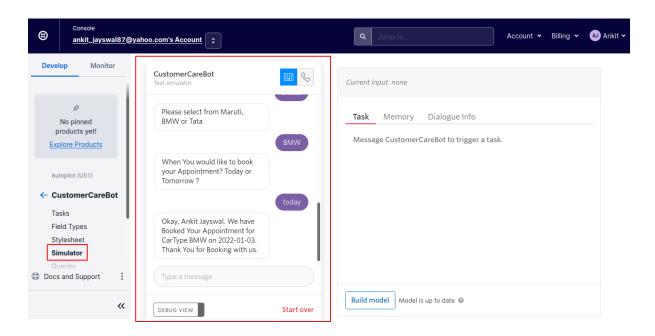
# **StyleSheet**

This setting provides the below json setting. Here you can set male female voices from Polly service. Right now below **Polly.Matthew** male voice is set. Some available female voices are Polly.Salli, Polly.Joana, Polly.Kendra Polly.Kimberly and male voices are Polly.Matthew, Polly.Joey etc. Also when we use collect action in conversation we can allow a number of attempts and retry message text. This is a general message setting invoked for every collect action if not defined explicitly.

```
"style_sheet": {
          "voice": {
                     "say_voice": "Polly.Matthew"
          "name": "",
          "collect": {
                     "validate": {
                              "on_failure": {
                                        "messages": [
                                                            "say": {
                                                                      "speech": "I didn't get that. What did you say?"
                                                            }
                                                  },
                                                  {
                                                            "say": {
                                                                      "speech": "I still didn't catch that. Please repeat."
                                                            }
                                                  },
                                                            "say": {
                                                                      "speech": "Let's try one last time. Say it again
please."
                                                            }
                                                  }
                                        "repeat_question": false
                              "on_success": {
                                        "say": {
```

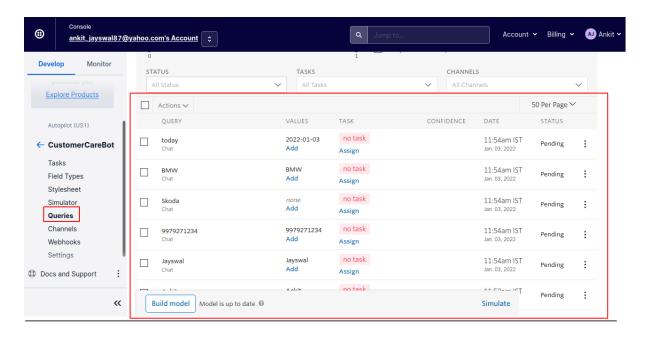
# **Simulator**

This is for the testing of Bot. Once you develop ChatBot you can test it all on this simulator before deploying it to production. This will provide you a better testing path and you do not want to play with original FB, Voice or SMS kind of channels. This will help you in eliminating real cost while testing the Bot before making it live. Below is a sample image for simulator.



## Queries

Here you will find user input logs and these user input phrases you can assign to particular appropriate tasks also if you wish. This will help you to make your Bot more smarter gradually. You can see the confidence level of tasks executed for the user input. In the image below you can see a list of queries.



#### **Channels**

These are the channels with which you can integrate your Bot. There are different methods of integration available for different channels. We will discuss one Facebook channel integration in this book later. It supports the below channels right now.

Voice

**SMS** 

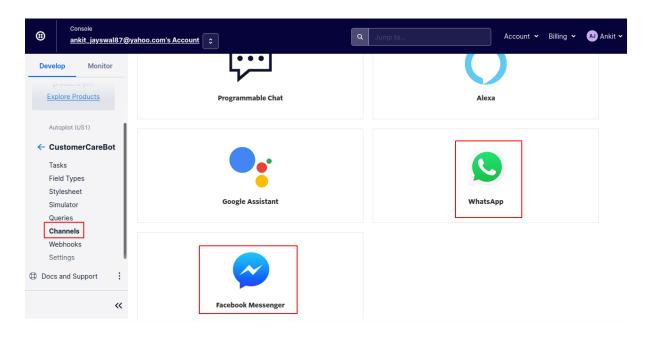
Web Chat

Alexa

Google Assistant

WhatsApp

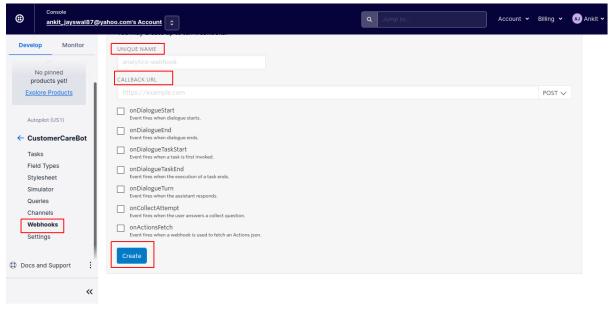
Facebook Messenger



#### Webhooks

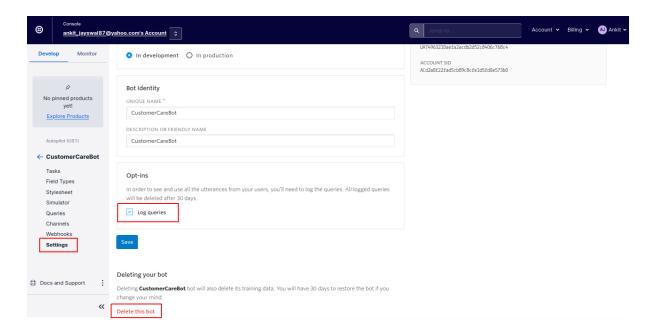
Here you can monitor some Bot events in realtime. You can select a list of events and provide your web URL to receive these events on it. It provides below events to monitor in real time. This is all for monitoring purposes, how it works in real time.

onDialogueStart
onDialogueEnd
onDialogueTaskStart
onDialogueTaskEnd
onDialogueTurn
onCollectAttempt
onActionsFetch



# **Settings**

Here it provides options to rename your Bot, add description, enable/disable log queries and delete Bot. You can see the same things in the image below.



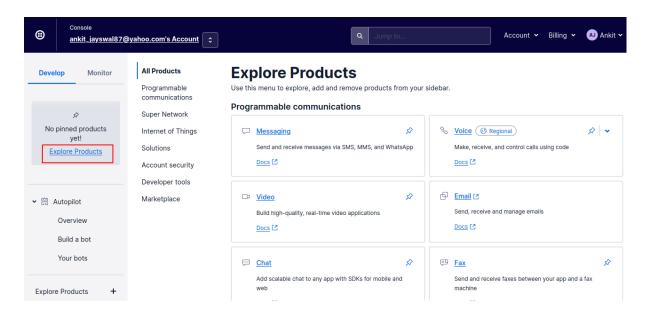
# **Building Conversational ChatBot**

So far we understand various components of chatbots. Now it is time to start building chatbots with the Twilio Autopilot platform. You will require live Twilio Account Login for this. To signup new Twilio Account you can go to this URL <a href="https://www.twilio.com/try-twilio">https://www.twilio.com/try-twilio</a> Once you have a working Twilio Account you can start making chatbots.

## **Start Building Conversational Bot**

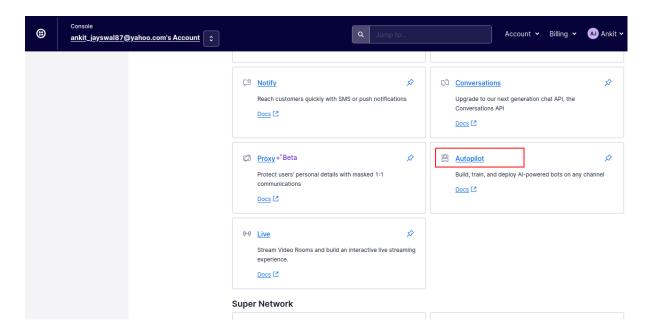
Let's make one simple conversational Bot like helping in replying to customer routine queries. We will try to cover questions like, "What services I can avail from you", "what are the timings", etc. Let's call this Bot as Customer Care Bot. So below is the process we will follow to make such a basic Bot. I assume here you have a working Twilio Account.

 Login to Twilio Account
 Once you Login to your Twilio Account you will see a screen like Below. Click on Explore Products as shown in the image below.

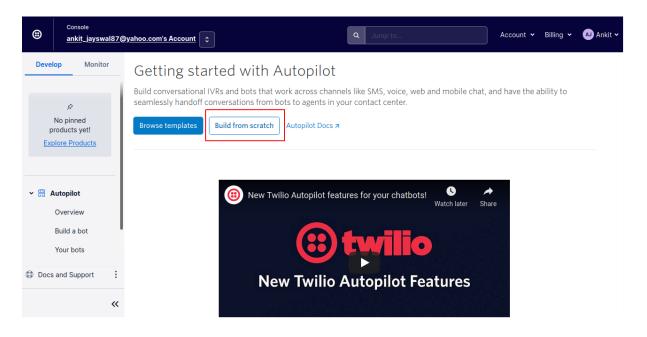


2) Goto Autopilot

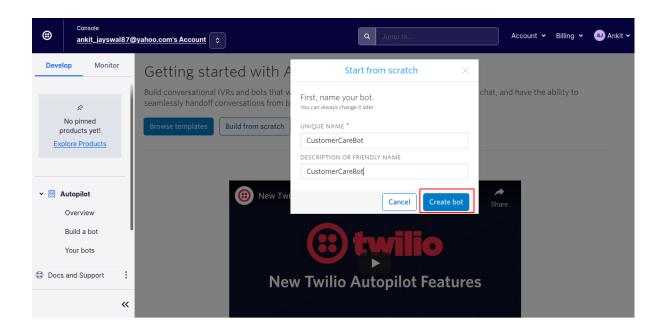
Now you need to click on Autopilot as shown below.



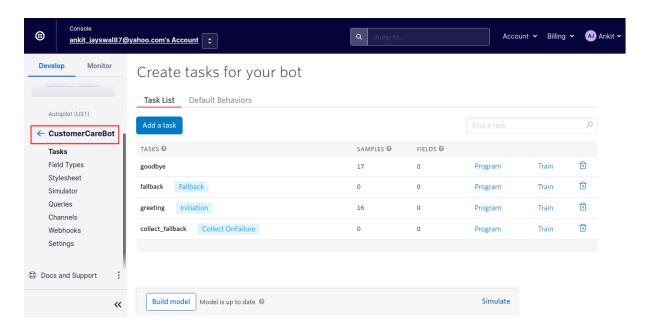
3) Click on Build from scratch



4) Name the Bot and Create
Here just give the name to your Bot "CustomerCareBot" and hit the create bot button.



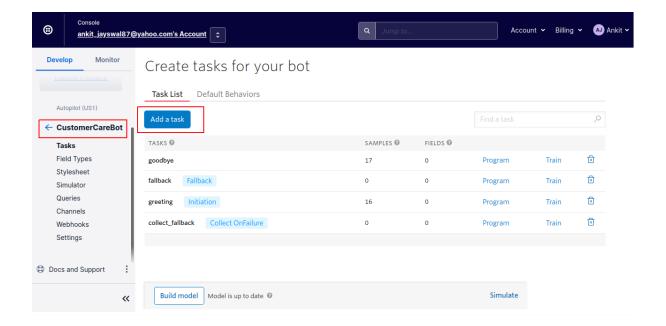
5) You will now see the below screen, once you successfully created your first Bot. Here you can see the Bot with all it's components which we mentioned and explained above in this book.



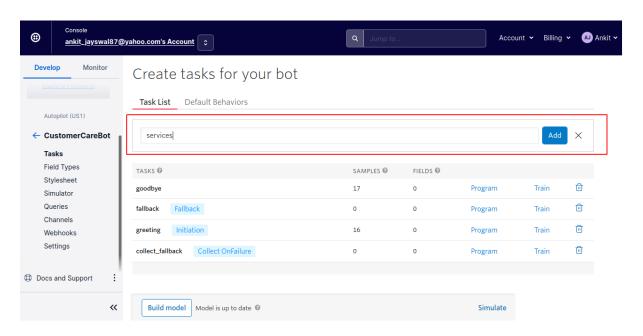
6) Create Tasks

Now let's create two simple tasks called "services" and "timings"

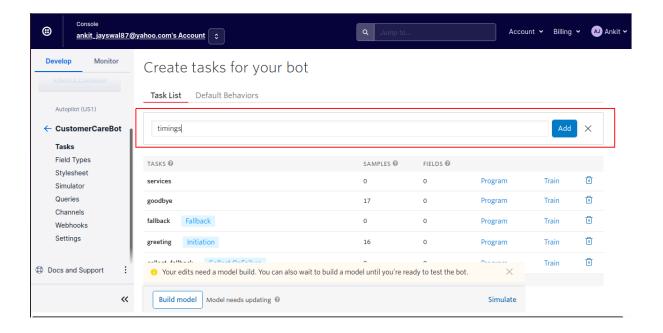
These tasks can answer customer queries related to services and timings of the company. So first we need to create these two tasks.



Now name the task as **services** and click on Add button as per below.

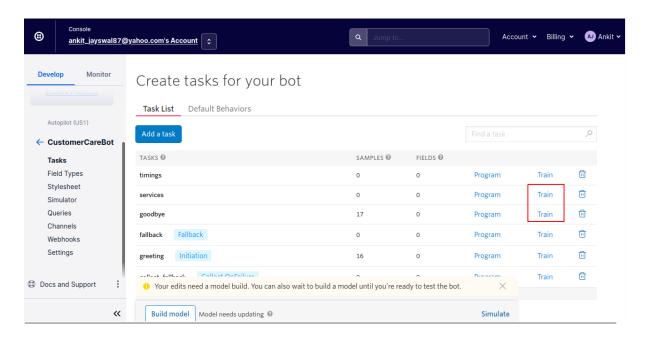


Likewise create timings tasks also as per below.

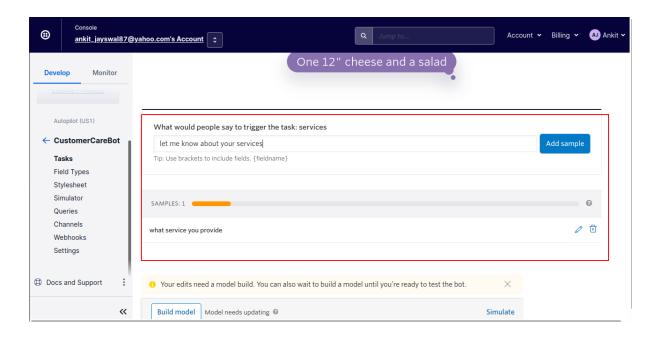


# 7) Train Tasks

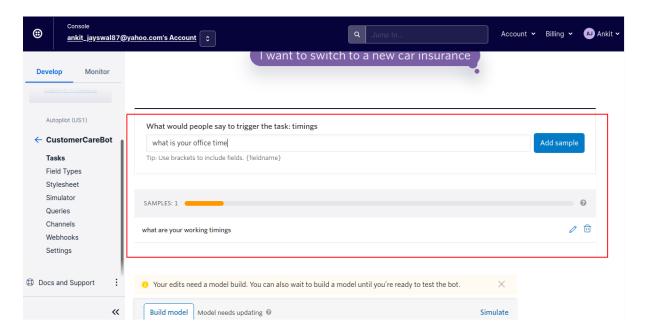
So, we have created two tasks called "services" and "timings". Now I need to train these tasks. We will add sample data for both tasks to understand user input and to invoke these tasks. You can click on **Train** against each task to train and add sample data to it as shown below.



Adding samples for services task



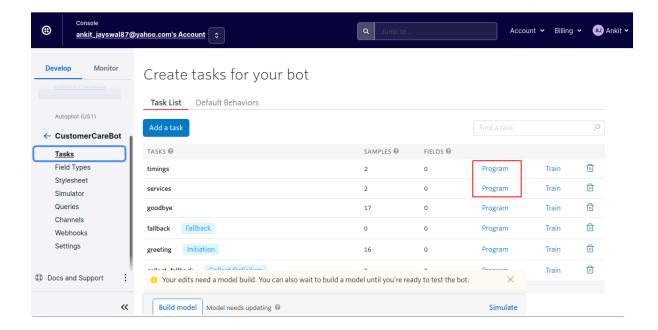
# Adding samples for timings task



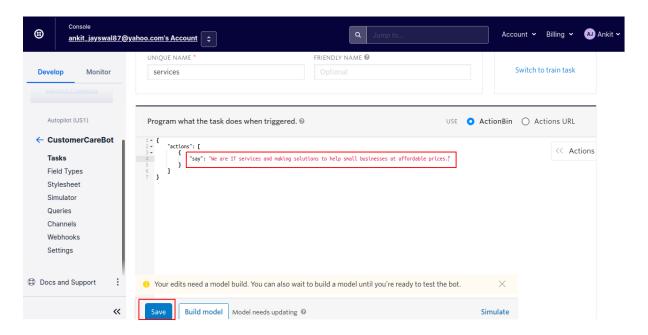
# 8) Program Task

So, we have created tasks and trained the tasks. Now I need to program these tasks. Means when these tasks are invoked on user input what actual action needs to take. Here we will call simple **Say** Action, which will reply to the user with a given response.

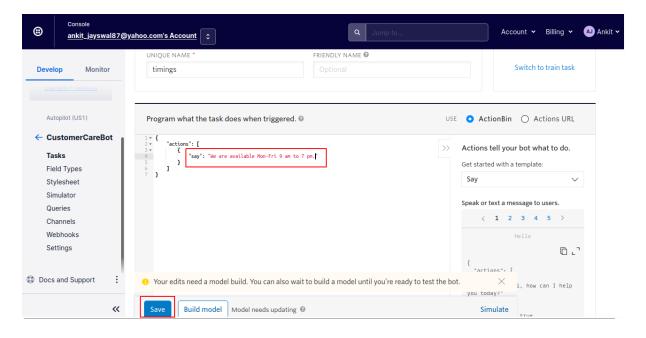
Click on the **Program** as shown below.



Program the **services** task as shown below and hit the save button.

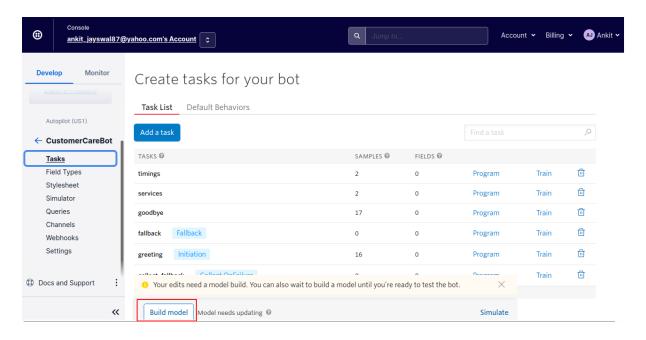


Program the **timings** task as shown below and hit the save button.



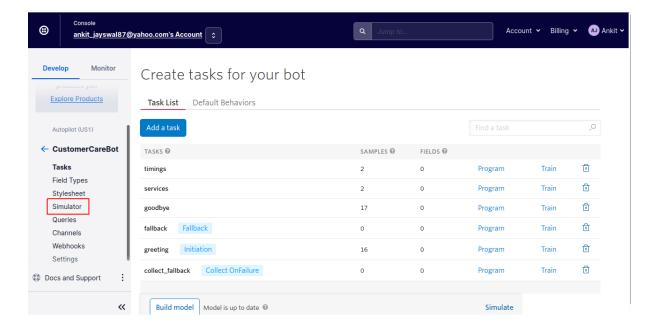
9) Great, now we have created tasks, trained tasks and provided proper Say Action to be executed when the task triggered. Now you might have noticed the **Build Model** button appeared in UI, this button appears whenever we add new tasks and train it with sample data. So, here Finally we need to Build a Model to take all the changes in effect.

Click on the Build model button as shown below in the image.

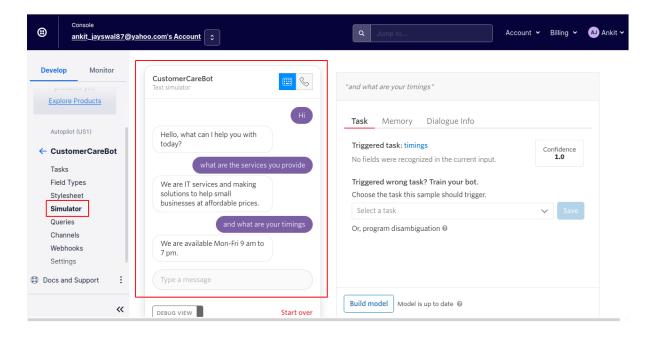


10) Test Bot in Simulator

Now we have successfully built our first model of **CustomerCareBot**. Let's test this Bot in a simulator. Click on Simulator as shown below in the image.



Now chat with Bot and test it's responses. I have attached the image below for the testing of a chatbot.



Great, **Congratulations!** We have successfully created our first Bot and tested it on a simulator.

# **Building DataCollecting ChatBot**

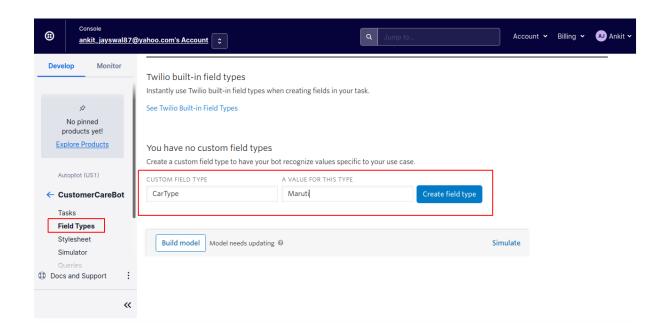
#### **Start Building Data Collecting Bot**

So above we learn how to make a simple conversational chatbot. It was answering static replies for the intent triggered by the user input.

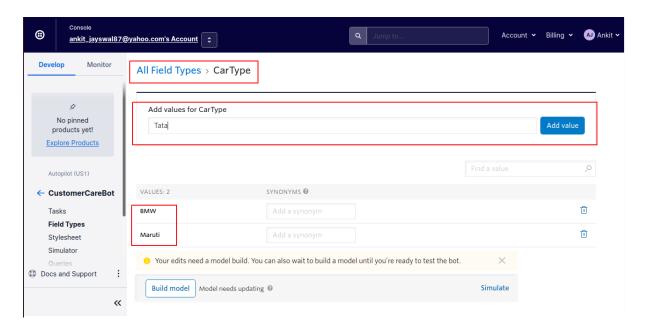
Now to illustrate Data Collecting Bot, We will make one another Task of **Appointment Booking** into the same **CustomerCareBot**. This task will contain **collect** Action. And this task will ask basic questions to customers and collect all data. Once all mentioned questions are completed it will POST all data to specified URL. Here we will ask one Question regarding **CarType** the **custom Field** which will be validated against allowed values also.

So, let's start making the **Appointment Booking** task with collect Action. It will ask FirstName, LastName, PhoneNumber, CarType and Date of Booking. We will collect these answers on the specified URL in the same collect Action.

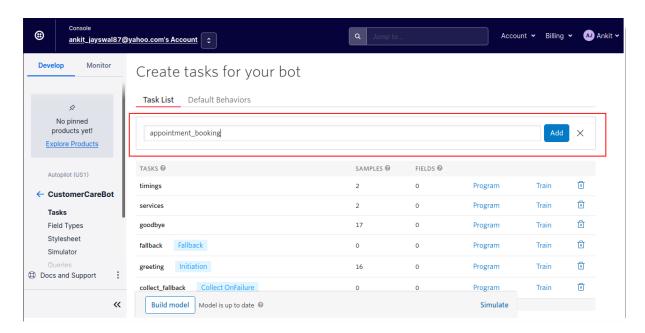
We can Create Custom Field **CarType** as below. Hit on the Create field type button as shown below.



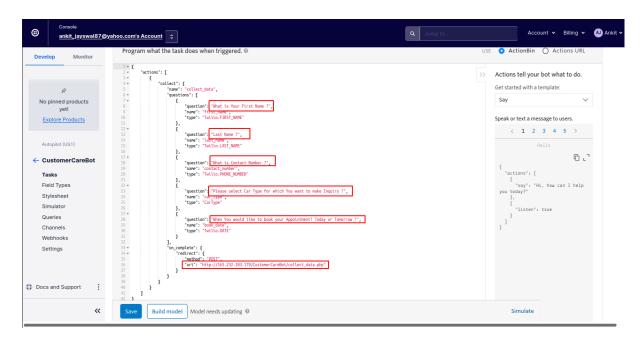
Adding more values to the CarType field as below.



Below I am adding an Appointment Booking Task. Click on Add button as shown below.



Now Program this task and provide collect Action as shown below in the image. Here you can see we asked various questions and at the end have specified one URL on which all data we will receive later. The URL can be any public url accessible over HTTP request.



The JSON code shown in above image, I am also sharing below to easily copy it. Below code will validate CarType value also. It will accept only Maruti, BMW or Tata car types only.

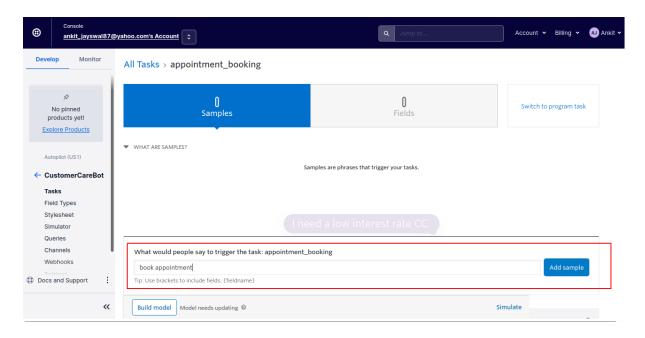
```
"actions": [
                   "collect": {
                             "name": "collect_data",
                            "questions": [
                                     {
                                               "question": "What is Your First Name ?",
                                               "name": "first_name",
                                               "type": "Twilio.FIRST_NAME"
                                     },
                                               "question": "Last Name ?",
                                               "name": "last_name",
                                               "type": "Twilio.LAST_NAME"
                                     },
                                     {
                                               "question": "What is Contact Number ?",
                                               "name": "contact number",
                                               "type": "Twilio.PHONE_NUMBER"
                                     },
                                               "question": "Please select Car Type for which You want to make
Inquiry ?",
                                               "name": "car_type",
                                               "type": "CarType",
                                               "validate": {
                                                        "on_failure": {
                                                                 "messages": [
```

```
{
                                                                                     "say": "Please select from
Maruti, BMW or Tata"
                                                                           },
                                                                                     "say": "We work for Maruti,
BMW or Tata. Please select from those."
                                                                  "repeat_question": false
                                                         "max_attempts": {
                                                                  "redirect": "task://having-trouble",
                                                                  "num_attempts": 3
                                                         }
                                               }
                                      },
                                                "question": "When would you like to book your Appointment? Today
or Tomorrow ?",
                                                "name": "book_date",
                                                "type": "Twilio.DATE"
                                      }
                              "on_complete": {
                                      "redirect": {
                                                "method": "POST".
                                                "uri": "http://165.232.183.179/CustomerCareBot/collect_data.php"
                                      }
                             }
                   }
          }
}
```

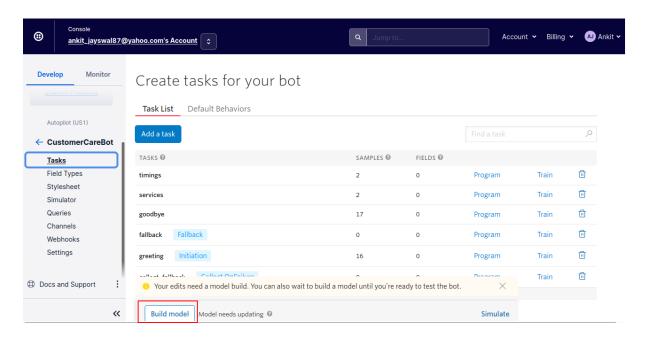
The code at the web URL http://165.232.183.179/CustomerCareBot/collect\_data.php is given below. This you can use for your reference for future development. The code mentioned below shows you how we can collect data from the **\$\_REQUEST['Memory']** parameter.

```
<?php
//collecting post data
$data = $ REQUEST['Memory'];
$data = json_decode($data,true);
$first name = $data['twilio']['collected data']['collect data']['answers']['first name']['answer'];
$last_name = $data['twilio']['collected_data']['collect_data']['answers']['last_name']['answer'];
$contact_number = $data['twilio']['collected_data']['collect_data']['answers']['contact_number']['answer'];
$car_type = $data['twilio']['collected_data']['collect_data']['answers']['car_type']['answer'];
$book_date = $data['twilio']['collected_data']['collect_data']['answers']['book_date']['answer'];
//You can store above received Data into choice of your Database via making DB connection here
$final_booking = "Okay, ".$first_name." ".$last_name.". We have Booked Your Appointment for CarType ".$car_type."
on ".$book date.". Thank You for Booking with us.";
//producing JSON response to reply back
$redirectto = '{"actions": [{"say": "'.$final_booking.'"}]}';
echo $redirectto;
?>
```

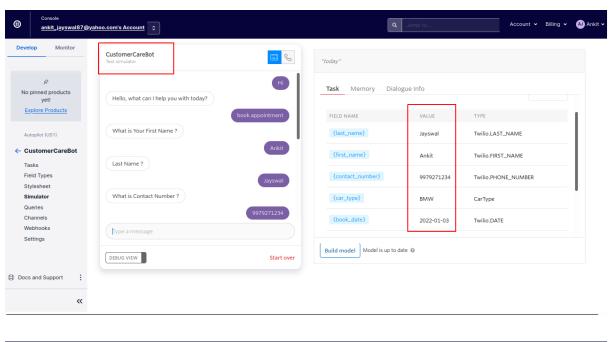
Now train the Appointment Booking task. Add sample data to invoke this task on user input. Click on the Add sample button as shown below. So here book appointment will be the keyword to invoke this task.

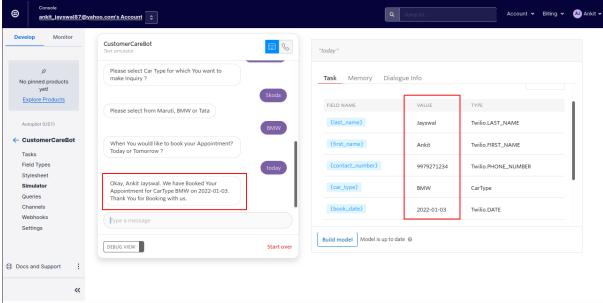


Finally, don't forget to Build the model. Just click on Build model to take all changes in effect.



Okay now we are able to test this Bot for Appointment Booking task. We will go to the Simulator and test the Bot. Below are snapshots for the testing of Bot and Appointment Booking Done message coming from the webhook.





#### **Facebook Channel Integration**

Above we made CustomerCareBot and tested it within the simulator only. As I described above, this Bot we can integrate with various communications channels. Here we will discuss Facebook Channel Integration with the Bot. So the Bot can be used by Real Live Users over Facebook Messenger Application (User Interface).

#### **Pre-requisites**

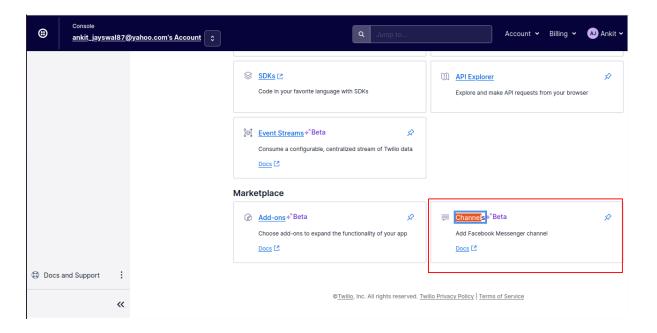
For this we need a working Facebook login account and then need to create one sample test Page on that Facebook account. This page will be the Identity of your Bot to the Real users. The live users will talk with this page and this page is integrated to our Bot. So users will get a reply back from our Al Bot for their queries. Users need Facebook Messenger App in their device, they can just search the page in it and start chatting with Bot.

I assume here you have a working Facebook login account and you have created a sample page on it. Also the Messenger App installed in the device to interact with ChatBot.

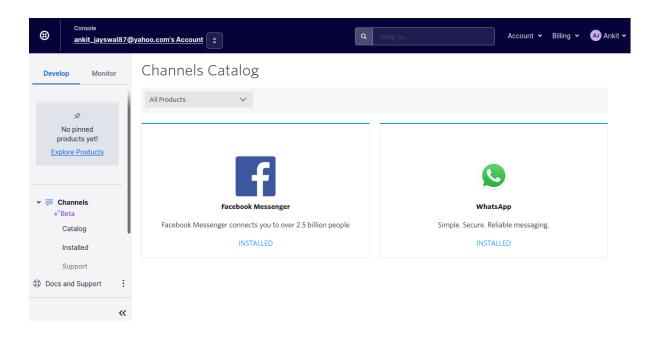
# **Process of Integration**

Below I have mentioned required steps for Facebook channel integration with your Bot. So, carefully read the details below to make your integration successful and working.

Now, You need to go to Channels as shown below.

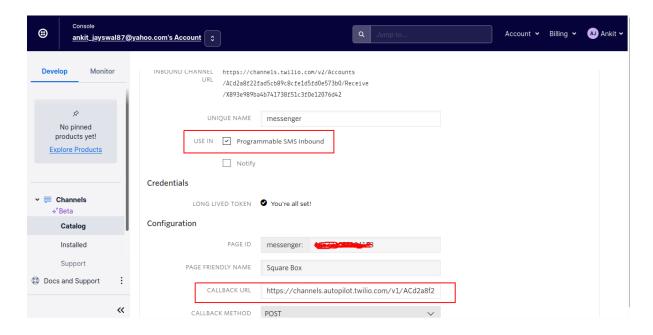


Once you click on Channels then you will get the page below. Here I already installed both Facebook and WhatsApp channels so it looks like this. Otherwise you need to click on the Install button.

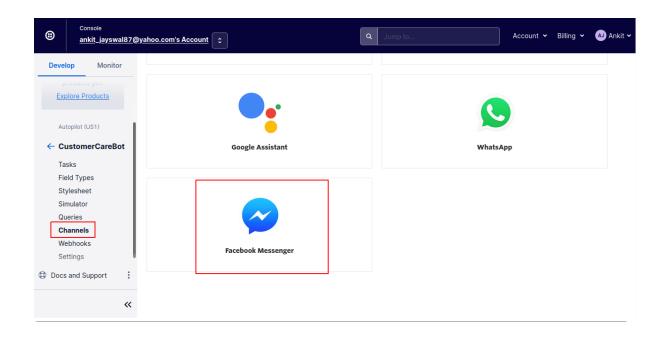


Okay fine so we have completed the pre-requisites. Just click on the above Facebook Messenger tile and you will see some configuration options. Here you need to provide your Facebook Login details and you will be able to browse your created page just select it. Then you will need to supply the Callback URL of your Bot that you will get from your Bot's channels tab.

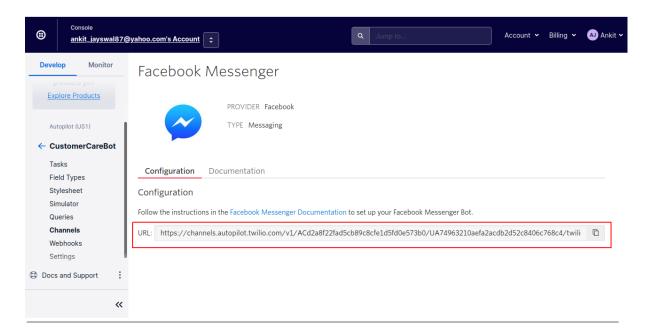
Just make a configuration like this as shown in the below image. The Callback URL you will get from where I will explain to you.



To get the Callback URL, just go to your bot. Goto Autopilot -> Your bots -> Click on Your Bot -> Channels -> Facebook Messenger. You will see the screen below. Click on Facebook Messenger.



Once you click on the Facebook Messenger tile you will see the screen below. Just copy this **FB URL (Callback URL)** of your Bot and paste it in the Above setting (Facebook Channel Setting) as per mentioned and save the setting. **So, now our installed FB Channel can communicate with the Bot.** 



Nice, Now you will have to search your page in the Facebook Messenger app and try to chat with it. It should auto respond to you if all are set properly.

Congratulations! You have successfully integrated your Bot with Facebook Channel.

#### **Business Ideas Around ChatBots**

Nowadays chatbots are a very common interface of interacting. If you see at every website we find such a virtual assistant to answer our queries. If we provide chatbot services on FB and WhatsApp like worldwide channels people will use it and there will be a huge audience you can reach via these channels for your business.

Here I will discuss two most generic ideas which can be used in many businesses, services and in many sectors based on your imaginations. You can become a platform provider for the businesses for getting the Leads, Orders for them and become a promoter for the businesses of your choices. Below are some examples by which you will get a clear idea about it.

#### List of Ideas

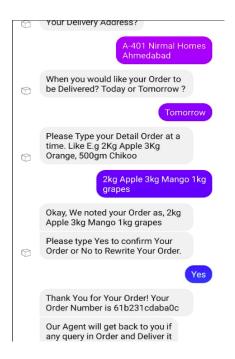
So, let's have some good examples, on which I have worked.

Creare Revenue generating channels
 You can create an Order taking interface for any kind of business and approach
 Business Owners for using it. You can charge a small recurring Platform Fee or
 commission on every Order. Here you can also work as a promoter for that Business.
 More the Orders, more Commission.

# Example:-

- Grocery, Fruits or Vegetables Order taking Interface over FB channel
- Providing Order taking platform to Vendor and charge commission per Order
- You can charge small platform fee to use it

Below is the Fruit Order Booking example over Facebook Messenger.



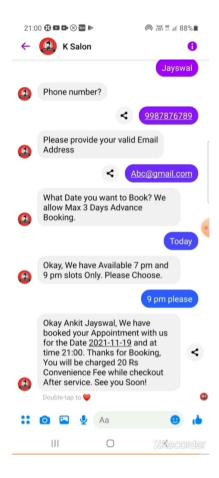
# 2. Time Saving Application

You can create Appointment Booking ChatBot Application for many services. Like Salon Appointment Booking Application. Here you can provide Daily 2 or 3 Premium bookings. These Booking slots can be used by customers to save their valuable time at Salon and they get served in a timely manner. For such premium Bookings, customers can pay some extra convenience Fee to Owner.

Likewise you can make this Appointment Booking application for Doctors also. Like allowing only 15 Patients for the Day. Bookings more than 15 will not be allowed and it will say, "Bookings are full for Today, Please book your appointment for Tomorrow." This way the Organisation knows in advance, how many patients need to be served by them today. And the Receptionist will not have to book appointments manually over the phone every time.

Likewise the same can be applied to book a table in the Restaurants. People can pay for their time saving and they get served the Food in a timely manner.

Below is the Salon Appointment Booking Example.



# **Demo Videos of Real Projects**

Below are some of my Real projects video links available to watch. Once you integrate database connection and API connections in development you will have much more Dynamic and custom flavour of ChatBot responses.

# Video Links

Coffee Bot on WhatsApp:

https://drive.google.com/file/d/1bJM5ym6rKfbqgHiwVwF-ljIrw20cWr3R/view?usp=sharing

Salon Appointment Booking on Facebook Messenger:

https://drive.google.com/file/d/1Sf6lkRbqJ5DnigbzSjOR7EBjQVYQ8QWX/view?usp=sharing

# **Audio Links**

Pizza Order VoiceBot Recording (future order):

https://drive.google.com/file/d/1PatHfD756VSILDIgzp40MG1ea9pLIK6u/view?usp=sharing

Pizza Order VoiceBot Recording (order now):

https://drive.google.com/file/d/1aRM10V648qlZrehK9fnAKpc XFAMSi0v/view?usp=sharing

# Thank You