

The future of CMS and eCommerce using BOT

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Simple Idea Service

DDD Sydney 2018
@aria_zanganeh

|



Am passionate about technology
Enjoy working with teams
Love good frameworks (read **Episerver**)
Freelance as a Solution Architect
Am delighted to be here amongst you all!

Santa is on the way!



A close-up photograph of Santa Claus wearing his iconic red suit with white fur trim and white gloves. He is holding a black smartphone in his hands, looking at the screen. The background is a softly blurred living room decorated for Christmas, featuring a tree with lights and several wrapped gifts. The overall lighting is warm and festive.

But where should he eat?

And where can he stay?

What are you looking for?

PLACES

EVENTS

Your Destinations



All Categories



Price Range



Proximity



Accepts

Credit Cards



Bike Parking



Wireless



Reservations



FROM \$25

WILLIAM BLUE DINING

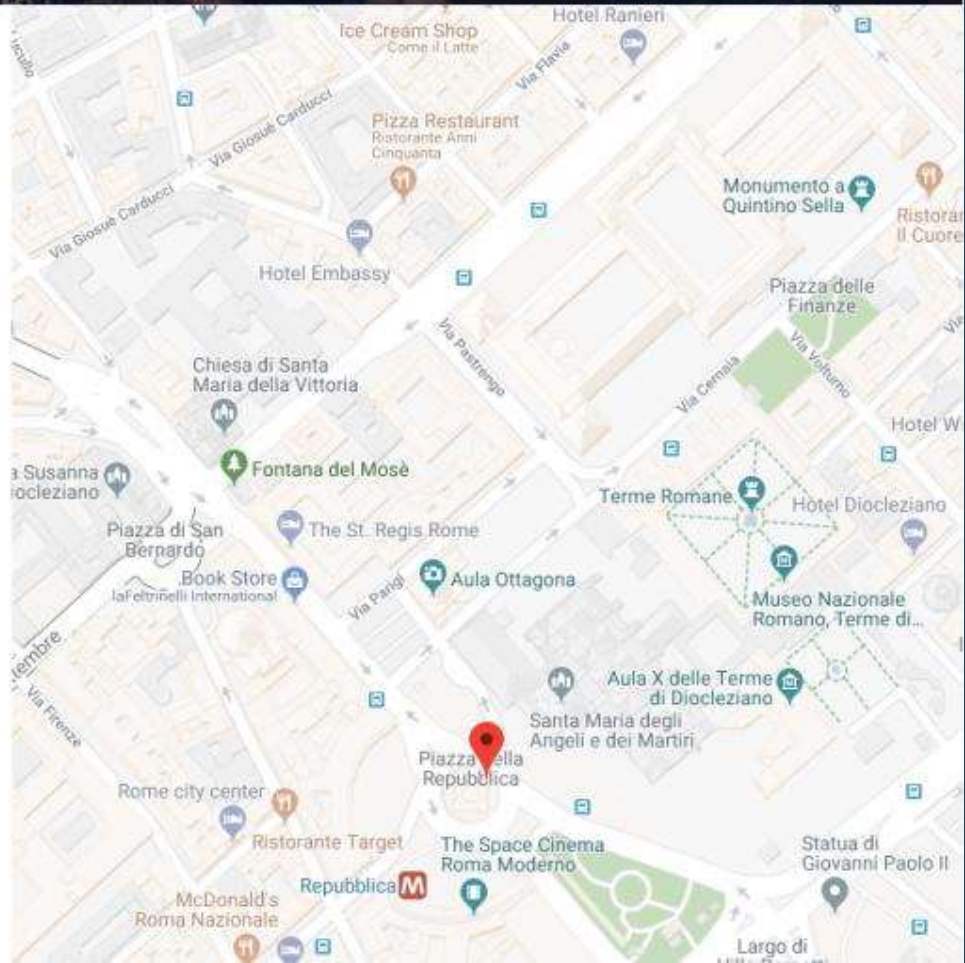
107 George St, The Rocks 
New South Wales 2000,
Australia



FROM \$10

BURGER HOUSE

529 Kent St, Sydney NSW 
2000

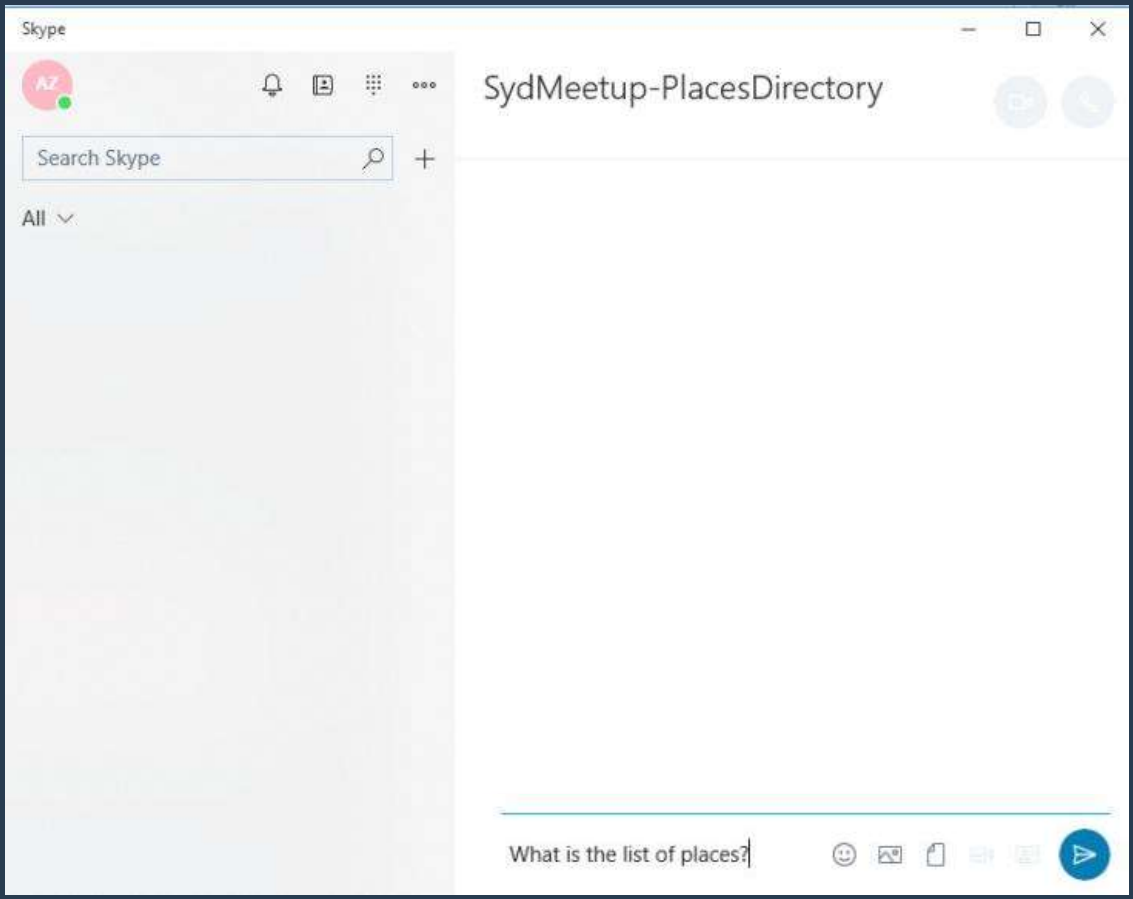


A close-up photograph of Santa Claus wearing his iconic red suit with white fur trim and white gloves. He is holding a black smartphone in his hands, looking at the screen. The background is a softly blurred living room decorated for Christmas, featuring a tree with lights and several wrapped gifts. The overall lighting is warm and festive.

But where should he eat?

And where can he stay?

What is a bot?
What is “headless” CMS?



Skype

— □ ×



SydMeetup-PlacesDirectory



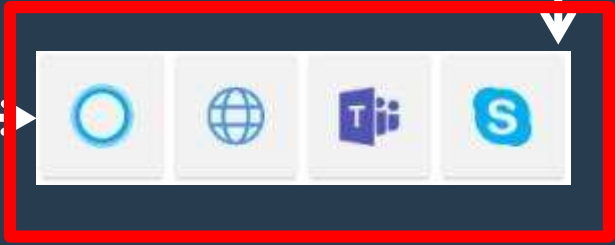
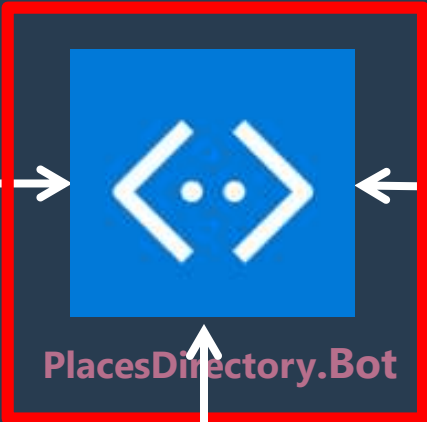
Search Skype

All

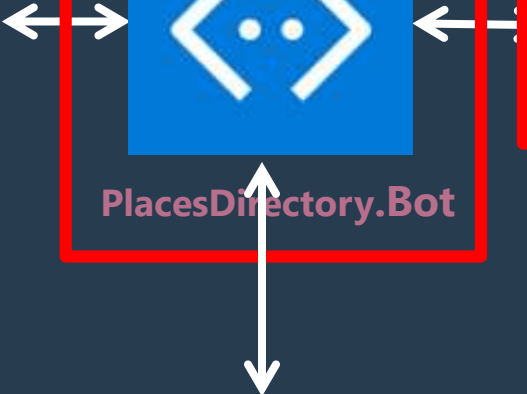
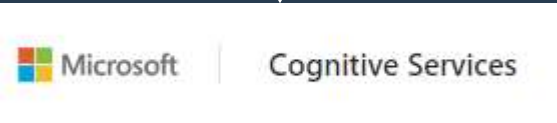
What is the list of places?



Microsoft Bot Framework



Cortana
Web
Teams
Skype



Finding Web App Bot

The screenshot shows the Microsoft Azure portal interface. On the left sidebar, the 'Create a resource' button is highlighted with a red box. The main area shows the 'Marketplace' view with the 'Everything' category selected. A search bar in the 'Everything' section contains the text 'web bot' and is also highlighted with a red box. Below the search bar, a table of results is displayed, with the 'Web App Bot' entry highlighted by a red box. The table has columns for 'NAME' and 'PUBLISHER'.

NAME	PUBLISHER
Web App Bot	Microsoft
Fortinet Web Application Firewall - FortiWeb	Fortinet
Visual LANSA for Web Development 14.1	LANSA, Inc.
SonicWall Web Application Firewall (WAF) - BYOL	SonicWall Inc.

The New Resource Group

SydMeetup-PlacesDirectory
Resource group

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Events

SETTINGS

- Quickstart
- Resource costs
- Deployments

+ Add Edit columns Delete resource group Refresh Move Assign tags Delete

Subscription (change)
BizSpark Subscription

Subscription ID
371cdbbd-e39e-417c-88cf-49591...

Deployments
1 Succeeded

Tags (change)
[Click here to add tags](#)

Filter by name... All types All locations No grouping

4 items Show hidden types ⓘ

<input type="checkbox"/>	NAME ↑↓	TYPE ↑↓	LOCATION ↑↓
<input type="checkbox"/>	svdmeetupplacesdirectory	Storage account	Southeast Asia
<input type="checkbox"/>	SydMeetup-PlacesDirectory	Web App Bot	global
<input type="checkbox"/>	syameetup-placesairectory	App Service	Australia Southea
<input type="checkbox"/>	SydMeetup-PlacesDirectory6pcdst	Application Insights	Southeast Asia

Web Bot App

The screenshot displays the Azure portal interface for a Web Bot App. The main header shows the app name 'SydMeetup-PlacesDirectory' and its type 'Web App Bot'. A left-hand navigation pane includes options like 'Overview', 'Activity log', 'Access control (IAM)', and 'Tags'. A 'BOT MANAGEMENT' section is highlighted with a red box, containing 'Build' and 'Test in Web Chat'. The main content area shows details for the resource group 'SydMeetup-PlacesDirectory', including the subscription 'BizSpark Subscription' and the subscription ID '371cdbbd-e39e-417c-88cf-495914aef2fd'. Below this, a 'Resources' section features three tiles: 'Documents' (with a book icon), 'Samples' (with a gear icon), and 'Feedback' (with a speech bubble icon). The 'Documents' and 'Samples' tiles are also highlighted with red boxes.

SydMeetup-PlacesDirectory
Web App Bot

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

BOT MANAGEMENT

Build

Test in Web Chat

Delete

Resource group (change)
SydMeetup-PlacesDirectory

Subscription (change)
BizSpark Subscription

Subscription ID
371cdbbd-e39e-417c-88cf-495914aef2fd

Resources

Documents

Samples

Feedback

Overview

Activity log

Access control (IAM)

Tags

BOT MANAGEMENT

Build

Test in Web Chat

Analytics

Channels

Settings

Speech priming

Online code editor ⓘ

Make quick changes to your bot code online, run build.cmd in the

[Open online code editor](#)

Download source code ⓘ

Download your source code and develop locally using your favorite

[Download zip file](#)

Continuous deployment from source control ⓘ

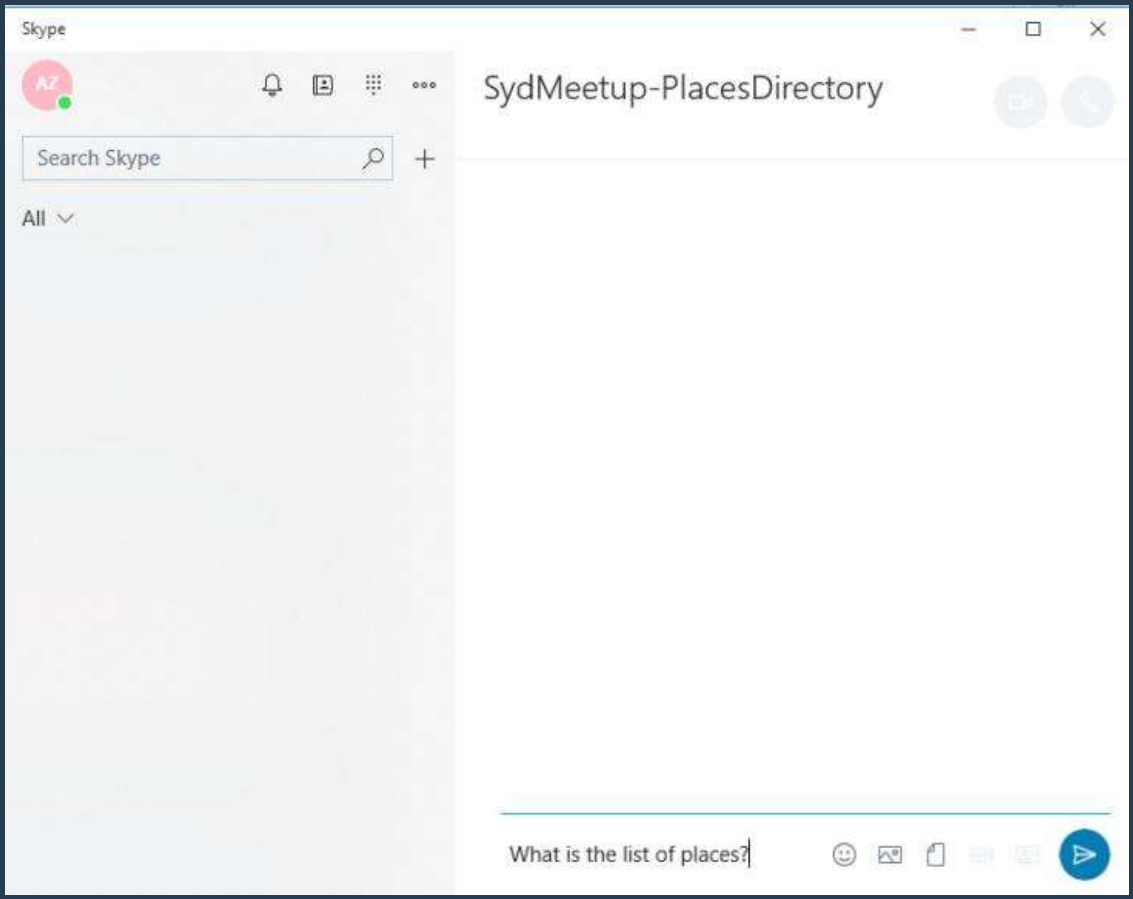
The code for this bot can be modified from the link below.

<https://github.com/zanganeh/SvdMeetup.PlacesDirectory.Bot>

[Configure continuous deployment](#)



Santa is sending his request!



Skype

— □ ×



SydMeetup-PlacesDirectory



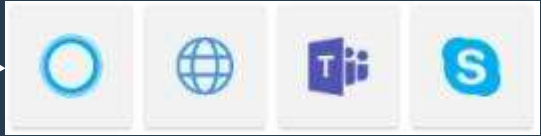
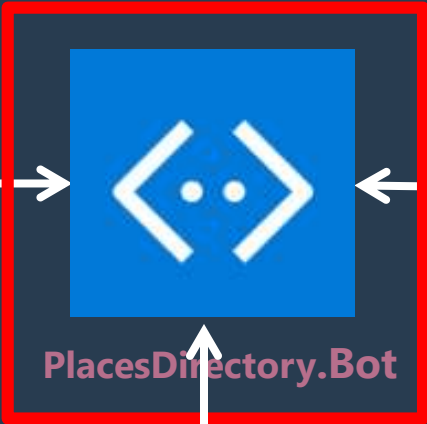
Search Skype

All

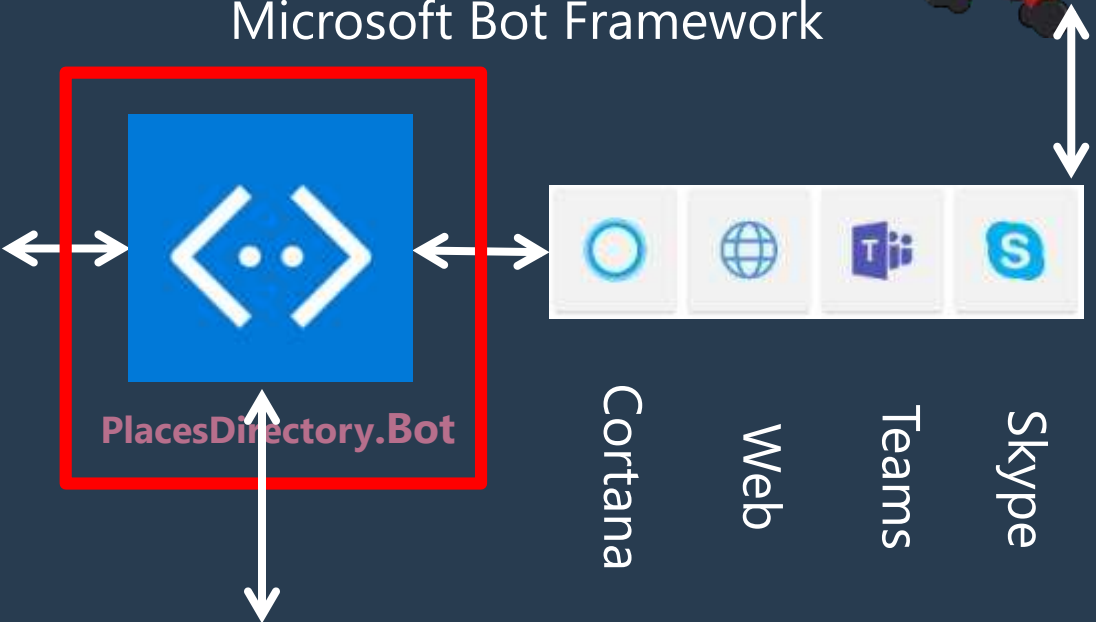
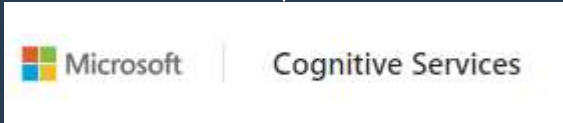
What is the list of places?



Microsoft Bot Framework



Cortana
Web
Teams
Skype



API - accepts request

```
namespace SydMeetup.PlacesDirectory.Bot
{
    [BotAuthentication]
    public class MessagesController : ApiController
    {
        /// <summary>
        /// POST: api/Messages
        /// Receive a message from a user and reply to it
        /// </summary>
        public async Task<HttpResponseMessage> Post([FromBody]Activity activity)
        {
            if (activity.GetActivityType() == ActivityTypes.Message)
            {
                await Conversation.SendAsync(activity, () => new Dialogs.RootDialog());
            }
            else
            {
                HandleSystemMessage(activity);
            }

            return Request.CreateResponse(HttpStatusCode.OK);
        }
    }
}
```

```
namespace SydMeetup.PlacesDirectory.Bot.Dialogs
```

```
{
```

```
    [Serializable]
```

```
    /// <summary>IDialog<string>/>
```

```
    public class RootDialog : IDialog<string>
```

```
    {
```

```
        public Task StartAsync(IDialogContext context)
```

```
        {
```

```
            context.Wait(MessageReceivedAsync);
```

```
            return Task.CompletedTask;
```

```
        }
```

```
        private async Task MessageReceivedAsync(IDialogContext context, IAwaitable<IMessageActivity> result)
```

```
        {
```

```
            var userMessage = await result;
```

```
            var providerResult = await ProcessUserMessage(userMessage);
```

```
            //Post a message to be sent to the user, using previous messages to establish a conversation context.
```

```
            await context.PostAsync(providerResult);
```

```
            context.Wait(MessageReceivedAsync);
```

```
        }
```

```
private static async Task<string> ProcessUserMessage(IMessageActivity message)
{
    IIntentProvider intentProvider = new NoProvider();
    var response = await LUISProvider.GetEntityFromLUIS(message.Text);
    if (response.TopScoringIntent != null)
    {
        var cmsConnector = new Connector.CmsConnector();

        switch (response.TopScoringIntent.Intent)
        {
            case "Places.GetHours":
                intentProvider = new GetHourProvider(cmsConnector);
                break;

            case "Places.GetAddress":
                intentProvider = new GetAddressProvider(cmsConnector);
                break;

            case "Places.List":
                intentProvider = new GetListProvider(cmsConnector);
                break;
        }
    }

    var providerResult = await intentProvider.Execute(response.Entities);
    return providerResult;
}
```

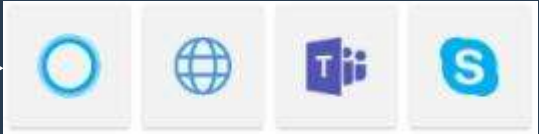
What is the list of places?



Microsoft Bot Framework



PlacesDirectory



PlacesDirectory.Bot

Cortana

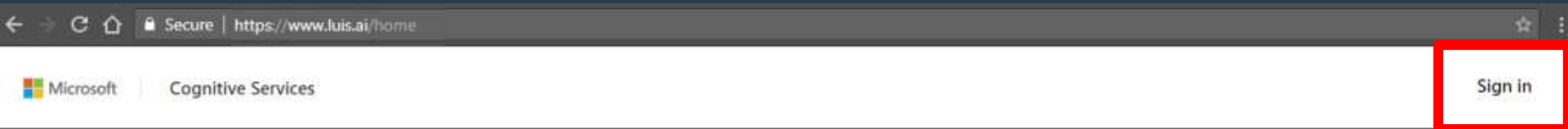
Web

Teams

Skype



LUIS – Language Understanding



[Language Understanding](#) [Documentation](#) [API](#) [Pricing](#) [Stack Overflow](#) [Azure Blog](#) [Support options](#) [Feedback](#)

Language Understanding (LUIS)

A machine learning-based service to build natural language into apps, bots, and IoT devices. Quickly create enterprise-ready, custom models that continuously improve.

[Login / Sign up](#)

tickets from **Cairo** to **Seattle**

intent = book flight
source = cairo
destination = seattle
quantity = 2

Book me a
flight to Cairo



```
{
  "query": "Book me a flight to Cairo",
  "topScoringIntent": {
    "intent": "BookFlight",
    "score": 0.9887482
  },
  "intents": [
    {
      "intent": "BookFlight",
      "score": 0.9887482
    },
    {
      "intent": "None",
      "score": 0.04272597
    },
    {
      "intent": "LocationFinder",
      "score": 0.0125702191
    },
    {
      "intent": "Reminder",
      "score": 0.00375502417
    },
    {
      "intent": "FoodOrder",
      "score": 3.765154E-07
    }
  ],
  "entities": [
    {
      "entity": "cairo",
      "type": "Location",
      "startIndex": 20,
      "endIndex": 24,
      "score": 0.956781447
    }
  ]
}
```

```
private static async Task<string> ProcessUserMessage(IMessageActivity message)
{
    IIIntentProvider intentProvider = new NoProvider();

    var response = await LUISProvider.GetEntityFromLUIS(message.Text);

    if (response.TopScoringIntent != null)
    {
        var cmsConnector = new Connector.CmsConnector();

        switch (response.TopScoringIntent.Intent)
        {
            case "Places.GetHours":
                intentProvider = new GetHourProvider(cmsConnector);
                break;

            case "Places.GetAddress":
                intentProvider = new GetAddressProvider(cmsConnector);
                break;

            case "Places.List":
                intentProvider = new GetListProvider(cmsConnector);
                break;
        }
    }

    var providerResult = await intentProvider.Execute(response.Entities);
    return providerResult;
}
```

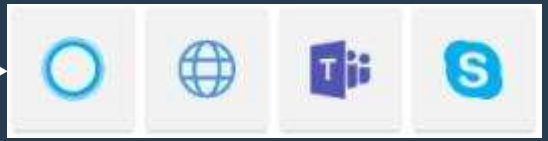
What is the list of places?





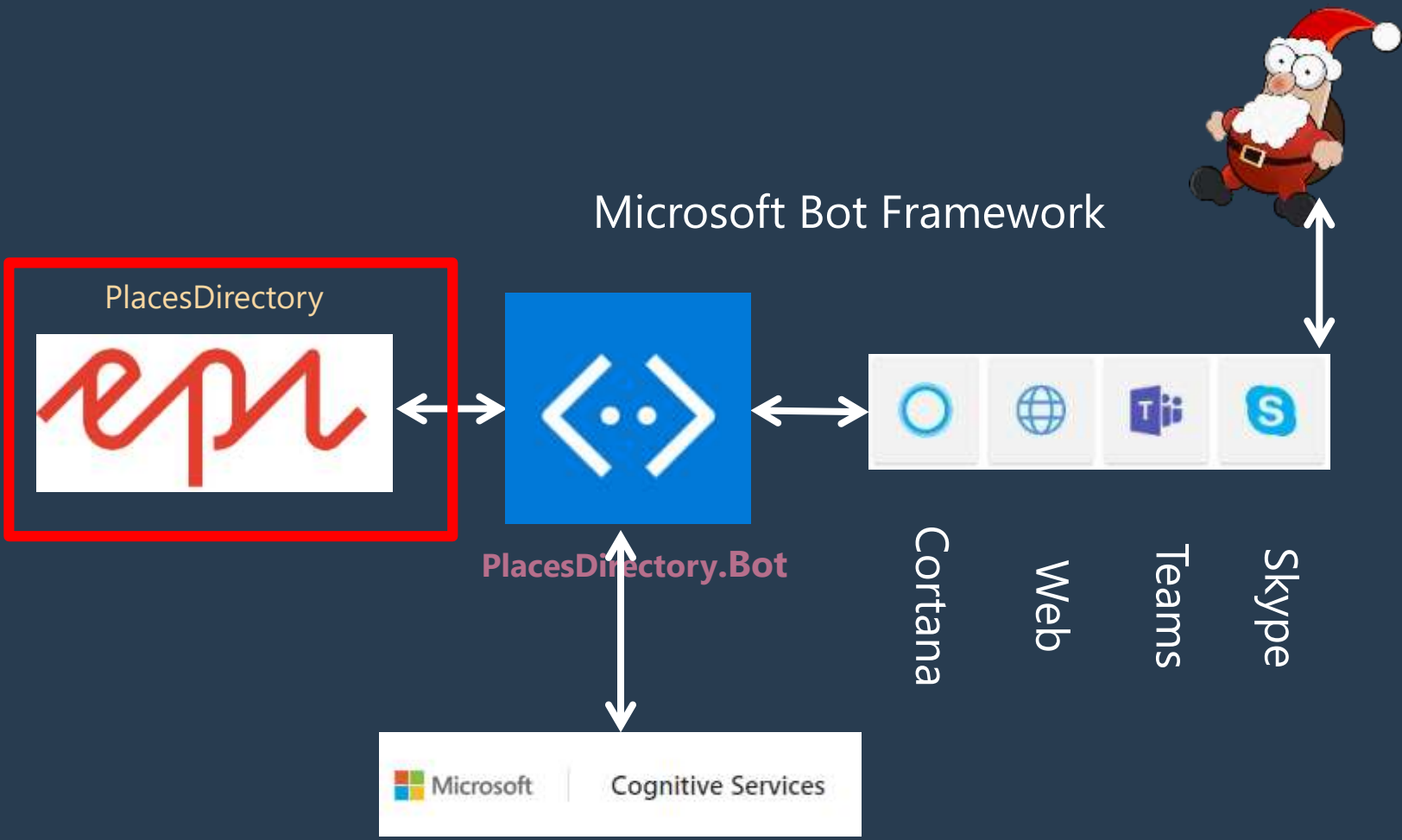
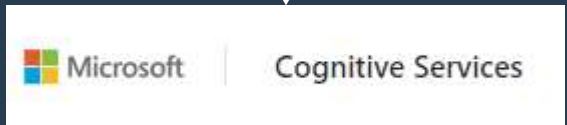
Microsoft Bot Framework

PlacesDirectory



PlacesDirectory.Bot

Cortana
Web
Teams
Skype



What are you looking for?

PLACES

EVENTS

Your Destinations



All Categories



Price Range



Proximity



Accepts

Credit Cards



Bike Parking



Wireless



Reservations



FROM \$25

WILLIAM BLUE DINING

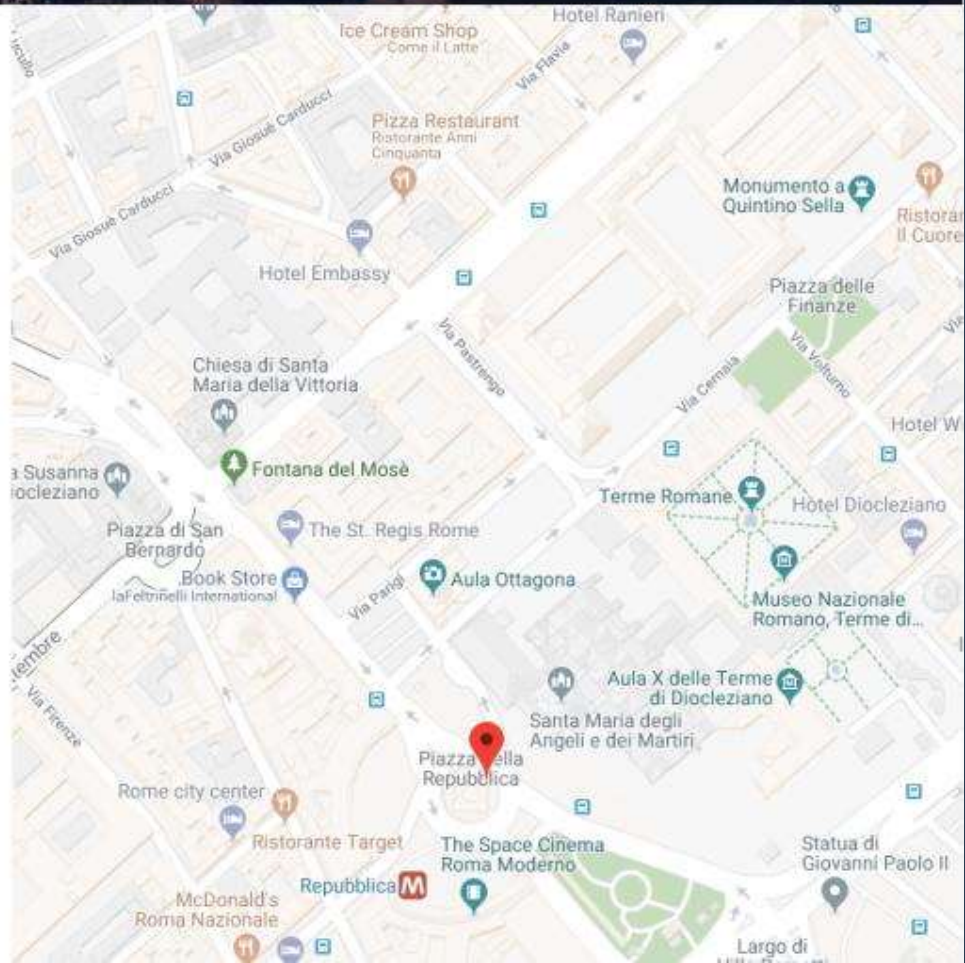
107 George St, The Rocks 
New South Wales 2000,
Australia



FROM \$10

BURGER HOUSE

529 Kent St, Sydney NSW 
2000



```
1 |
2 | "totalMatching": 2,
3 | "results": [
4 |   {
5 |     "contentLink": {
6 |       "id": 17,
7 |       "workId": 0,
8 |       "guidValue": "4e79e3f8-193f-4ac5-bdf0-15a29670908a",
9 |       "providerName": null
10 |    },
11 |    "name": "William Blue Dining",
12 |    "language": {
13 |      "displayName": "English",
14 |      "name": "en"
15 |    },
16 |    "existingLanguages": [
17 |      {
18 |        "displayName": "English",
19 |        "name": "en"
20 |      }
21 |    ],
22 |    "masterLanguage": {
23 |      "displayName": "English",
24 |      "name": "en"
25 |    },
26 |    "contentType": [
27 |      "Page",
28 |      "PlacePage"
29 |    ],
30 |    "parentLink": {
31 |      "id": 6,
32 |      "workId": 0,
33 |      "guidValue": "822676a8-2a47-4101-83d9-e7687e8ccae8",
34 |      "providerName": null
```

```
public async Task<QueryResult> GetPlaces()
{
    using (var client = new HttpClient())
    {
        client.DefaultRequestHeaders.Add("Accept", "application/json");
        var response = await client.GetAsync($"{WebConfigurationManager.AppSettings["cmsUrl"]}/api/episerver/v1.0/search/content?top=100&filter=ContentType/any(t:t.eq 'PlacePage')");
        if (response != null && response.IsSuccessStatusCode)
        {
            var responseContent = await response.Content.ReadAsStringAsync();
            return QueryResult.FromJson(responseContent);
        }
    }

    return null;
}
```

```
public async Task<string> Execute(IEnumerable<EntityType> entities)
{
    var places = await _cmsConnector.GetPlaces();

    if (places != null && places.Results != null && places.Results.Any())
    {
        return $"I have bellow places:{Environment.NewLine} {string.Join(Environment.NewLine, places.Results.Select(a => a.Name))}";
    }

    return null;
}
```

```
namespace SydMeetup.PlacesDirectory.Bot.Dialogs
{
    [Serializable]
    ///IDialog<string></string>
    public class RootDialog : IDialog<string>
    {
        public Task StartAsync(IDialogContext context)
        {
            context.Wait(MessageReceivedAsync);


            return Task.CompletedTask;
        }

        private async Task MessageReceivedAsync(IDialogContext context, IAwaitable<IMessageActivity> result)
        {
            var userMessage = await result;


            var providerResult = await ProcessUserMessage(userMessage);

            //Post a message to be sent to the user, using previous messages to establish a conversation context.
            await context.PostAsync(providerResult);

            context.Wait(MessageReceivedAsync);
        }
    }
}
```


 Overview

 Activity log

 Access control (IAM)

 Tags

BOT MANAGEMENT

 Build

 Test in Web Chat

 Analytics

 Channels


 Settings

 Speech priming

Online code editor 


Make quick changes to your bot code online, run build.cmd in the

[Open online code editor](#)

Download source code 

Download your source code and develop locally using your favorite

[Download zip file](#)

Continuous deployment from source control 

The code for this bot can be modified from the link below.

<https://github.com/zanganeh/SvdMeetup.PlacesDirectory.Bot>

[Configure continuous deployment](#)

Home > SydMeetup-PlacesDirectory - Build > Deployments

Deployments

sydmeetup-placesdirectory



Setup



Sync



Disconnect



Configure Performance Test

TUE 08/14

Deployment option

Set up deployment option



* Choose Source

Configure required settings



Choose source



Visual Studio Team Services

By Microsoft



OneDrive

By Microsoft



Local Git Repository

By Git



GitHub

By GitHub



Bitbucket

By Atlassian



Dropbox

By Dropbox



External Repository

Deployment option

Set up deployment option

* Choose Source

GitHub

* Authorization

zanganeh

* Choose project

SydMeetup.PlacesDirectory.Bot

* Choose branch

master

Performance Test

Not Configured



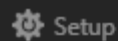
Click here if you are having trouble seeing your repositories.



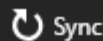
Home > SydMeetup-PlacesDirectory - Build > Deployments

Deployments

sydmeetup-placesdirectory



Setup



Sync



Disconnect



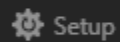
Configure Performance Test

No deployments found.

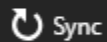
Home > SydMeetup-PlacesDirectory - Build > Deployments

Deployments

sydmeetup-placesdirectory



Setup



Sync



Disconnect



Configure Performance Test

WED 08/15



cleanup code

GitHub

Active

3:43 PM

Search (Ctrl+)

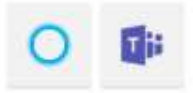
- Overview
- Activity log
- Access control (IAM)
- Tags
- BOT MANAGEMENT
 - Build
 - Test in Web Chat
 - Channels**
 - Settings
 - Speech priming
 - Bot Service pricing
- APP SERVICE SETTINGS
 - Application Settings
 - All App service settings
- SUPPORT + TROUBLESHOOTING
 - New support request

Connect to channels

Name	Health	Published	
 Direct Line	Running	--	Edit 
 Skype	Running	Rejected 	Edit 
 Web Chat	Running	--	Edit 

[Get bot embed codes](#)

Add a featured channel



More channels



Overview

Activity log

Access control (IAM)

Tags

BOT MANAGEMENT

Build

Test in Web Chat

Analytics

Channels

Settings

Speech priming

Bot Service pricing

APP SERVICE SETTINGS

Application Settings

Configure



Web control

Messaging

Calling

Groups

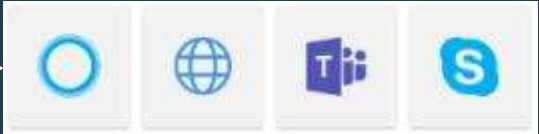
Publish

Web control

The Web Control lets you embed the bot in your own website.

[Get embed code](#)

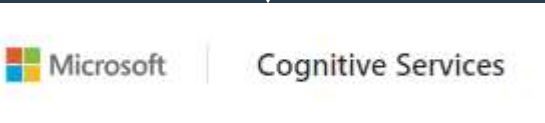
Microsoft Bot Framework

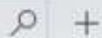
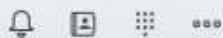


Cortana
Web
Teams
Skype



PlacesDirectory.Bot





All ▾



SydMeetup-PlacesDirectory 3:55 PM

I have bellow places: William Blue D...

SydMeetup-PlacesDirectory



Today

3:55 PM

Please give me the list of places?



SydMeetup-PlacesDirectory, 3:55 PM

I have bellow places: William Blue Dining
BURGER HOUSE

DEMO (REAL STUFF)
if I have internet



NDC { Sydney }





Thanks for watching!

Aria Zanganeh
Simple Idea Service

zanganeh@gmail.com
@aria_Zanganeh
<https://github.com/zanganeh>