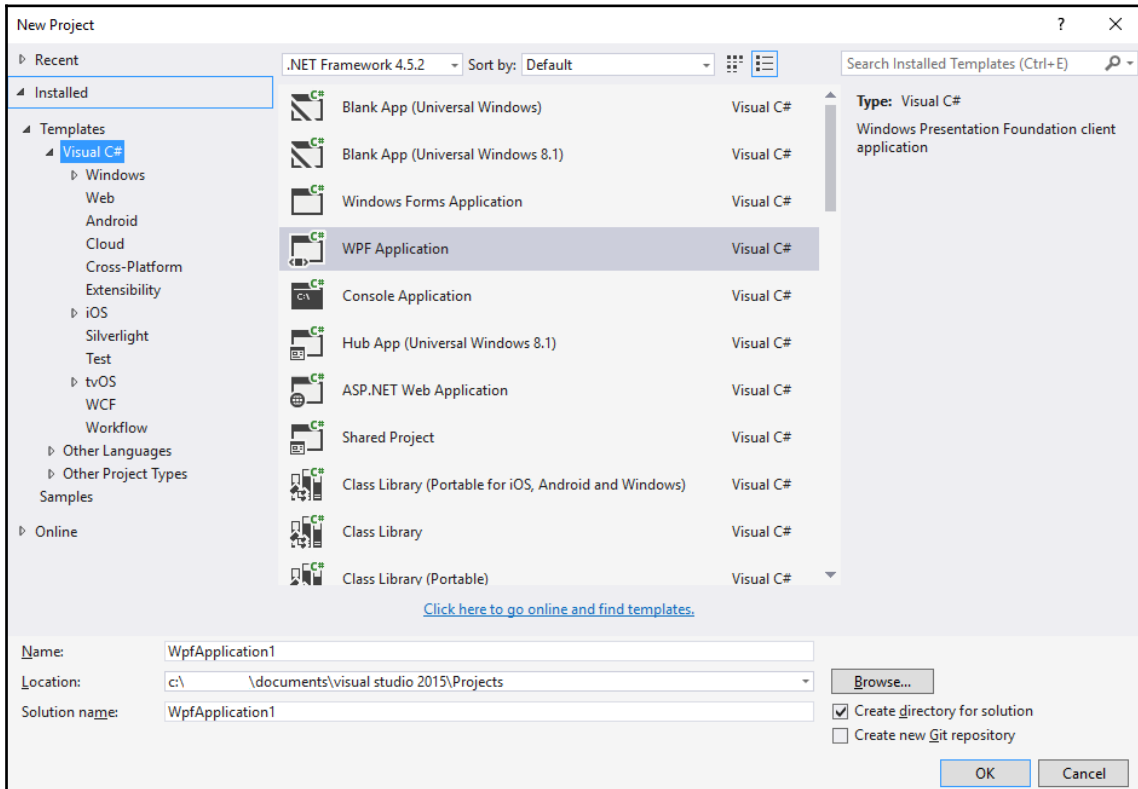
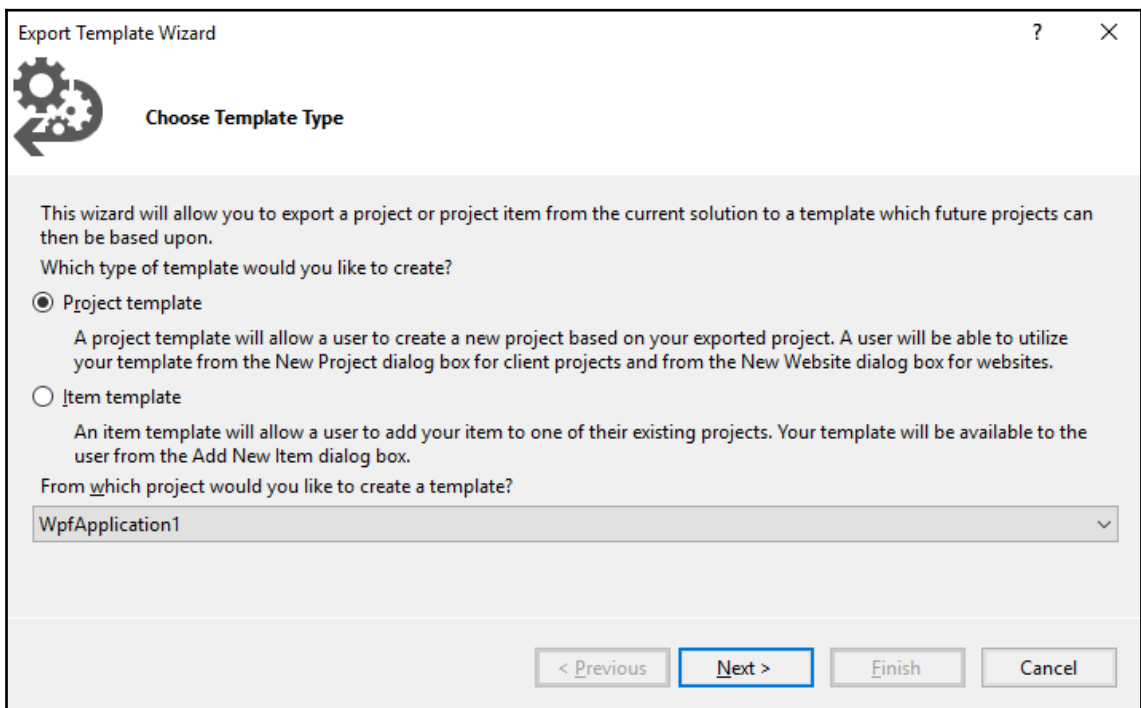
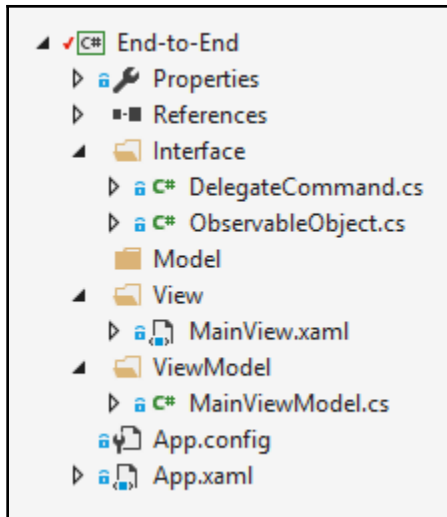



# Chapter 1: Getting Started with Microsoft Cognitive Services





Export Template Wizard ? X

 **Select Template Options**

Template name:

Template description:

Icon Image:

Preview Image:

Output location:

Automatically import the template into Visual Studio





Display an explorer window on the output files folder

Everything

Filter

face api

Results

NAME	PUBLISHER	CATEGORY
 Face API	Microsoft	AI + Cognitive Services
 VU Face Recogn	VU LLC	Compute
 VU Face Recogn - BYOL	VU LLC	Compute
 Bing Maps API for Enterprise	Bing Maps	Web + Mobile

---

Create  
Face API

\* Name

\* Subscription

\* Location

\* Pricing tier ([View full pricing details](#))

**All Available Pricing**

F0 (You have already created 1 F0 for this subscription.)

S0 (10 Calls per second)

\* I confirm I have read and understood the notice below.

**FaceApi - Keys**  
Cognitive Services

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

RESOURCE MANAGEMENT

- Keys**
- Quick start
- Pricing tier
- Properties

Regenerate Key1    Regenerate Key2

Notice: It may take up to 10 minutes for the newly (re)generated keys to take effect.


NAME  
FaceApi

KEY 1  
2

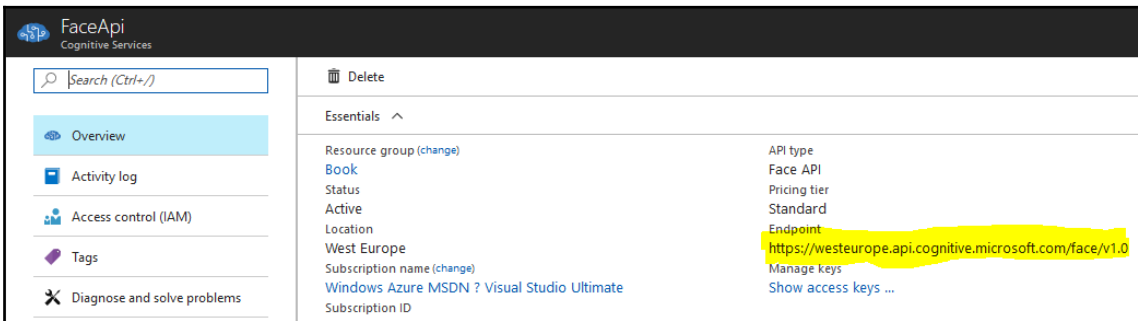
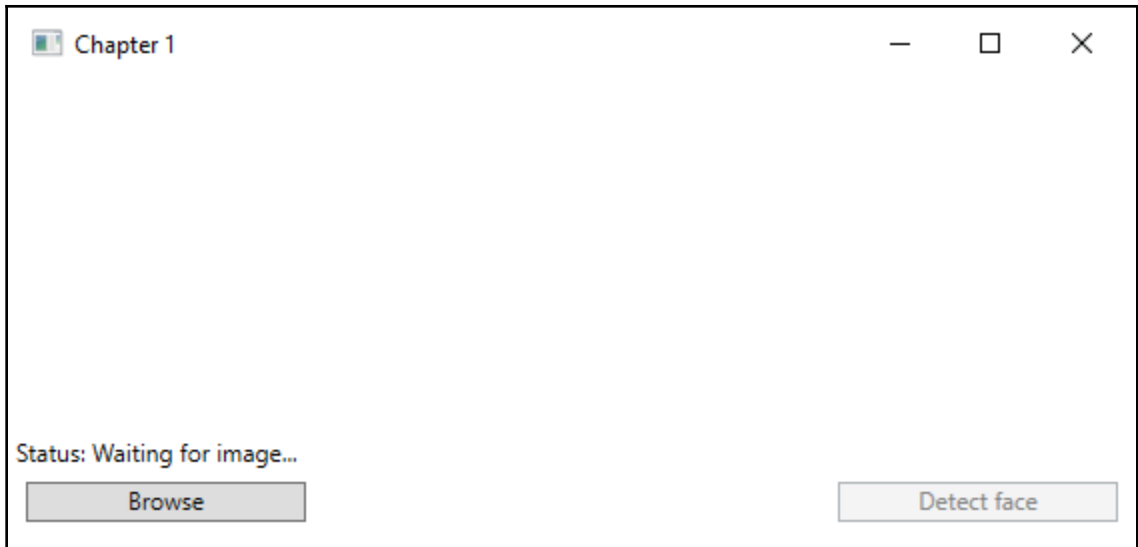
KEY 2  
4

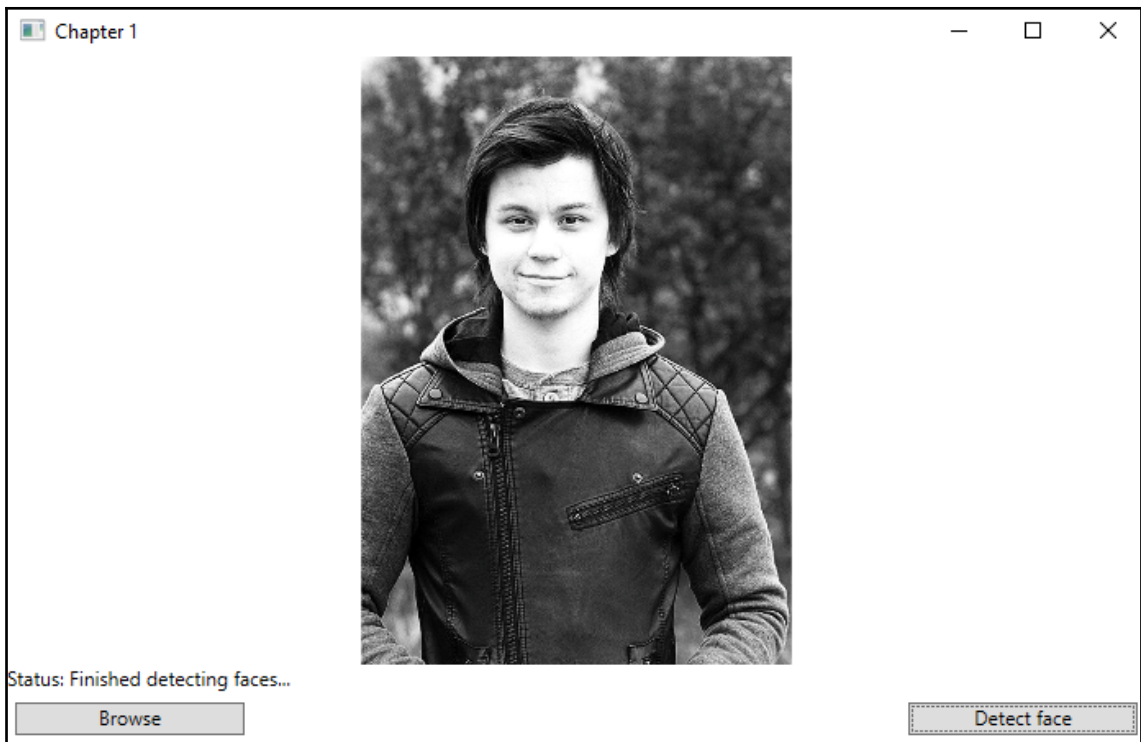
Browse    Installed    Updates

microsoft.projectoxford.face    x    ↻     Include prerelease

 **Microsoft.ProjectOxford.Face** by Microsoft, 9,74K downloads    v1.1.0

Detect, identify, analyze, organize, and tag faces in photos with Microsoft Face API client library.

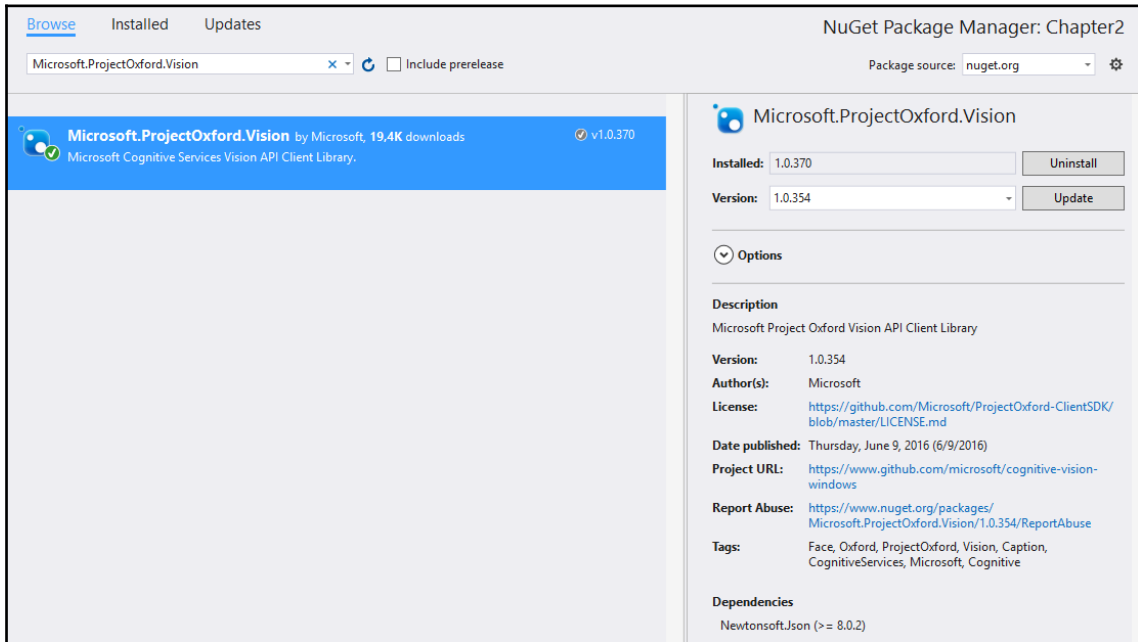


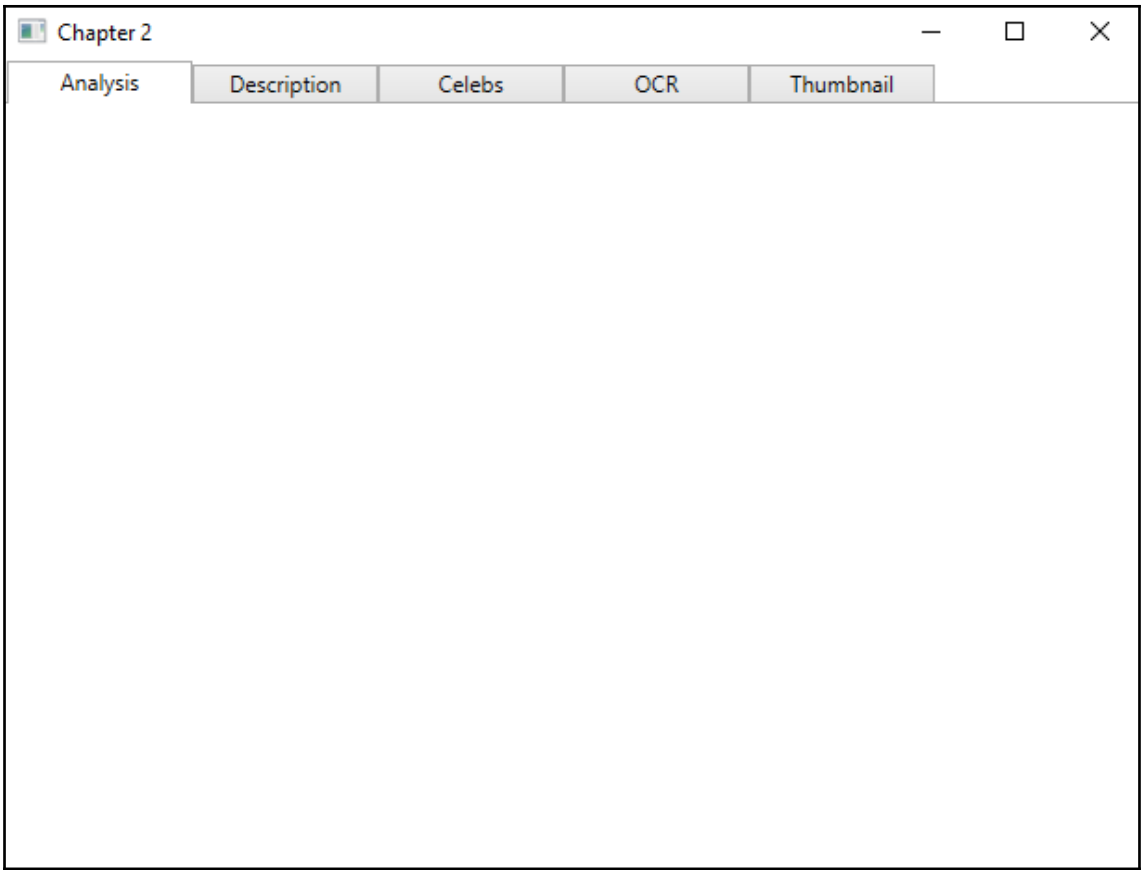




---

# Chapter 2: Analyzing Images to Recognize a Face






Chapter 2

Analysis Description Celebs OCR Thumbnail Face verification Similar face Face grouping

**Visual Features:**

- ImageType
- Color
- Faces
- Adult
- Categories
- Tags
- Description

[Browse and analyze](#)



**Analysis Results:**

Description: a harbor with a boat in the water  
Probability: 0,75724296883707

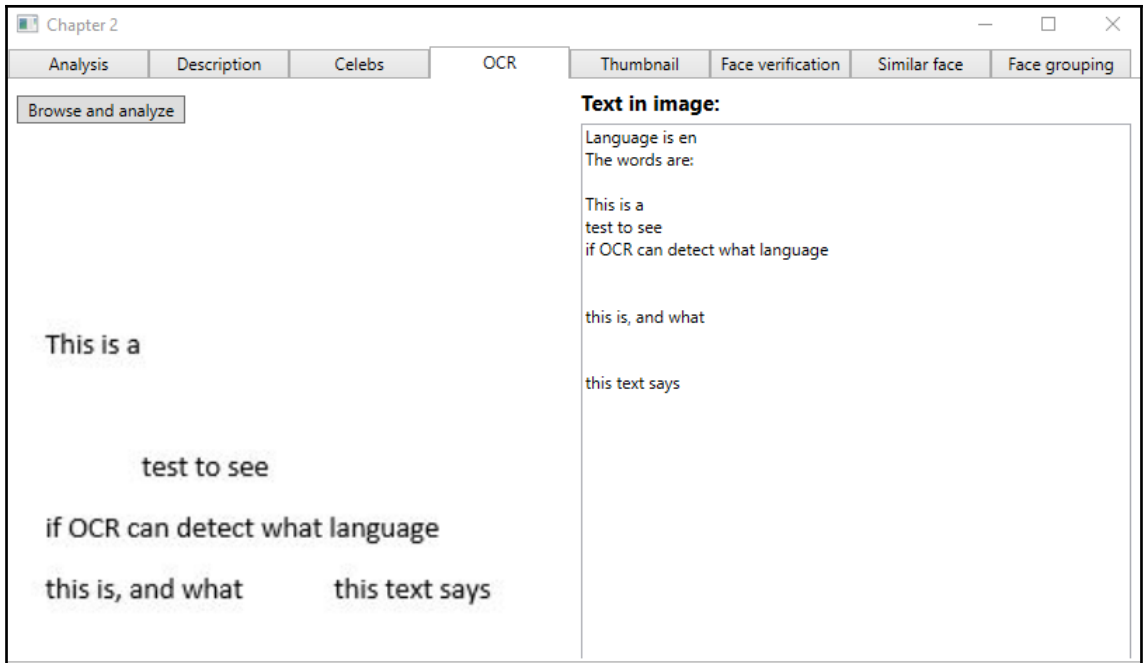
Categories:

- outdoor\_  
Probability: 0,0078125
- outdoor\_oceanbeach  
Probability: 0,4296875

Image content is adult: False  
Image content is racy: False

The image is Jpeg  
Image size: 3264 \* 2448 px

Request ID is: 5964b01a-9205-49e3-be06-c0b9d45e2548





Chapter 2

Analysis Description Celebs OCR Thumbnail Face verification Similar face Face grouping

Browse for image 1

Browse for image 2




Verify faces

The two provided faces is identical: False, with confidence: 0.19357

Chapter 2
— □ ×


Analysis
Description
Celebs
OCR
Thumbnail
Face verification
Similar face
Face grouping

**Image 1**




327a9066-fe93-4283-93db-a3d5e2cb0b7a

**Image 2**




0327bea4-cf66-4ffa-b495-4e6a2e32ba76

**Image 3**




26979236-2ed5-4231-b9bc-6a5f21b50f2a

**Image 4**




abe77485-9164-43d4-8e23-dc93def73a46

**Image 5**



c7278d87-0caf-4340-9458-e4ec34f70755

**Image 6**



ab561859-88ba-4de2-82ba-52e31d3c5888

Group images

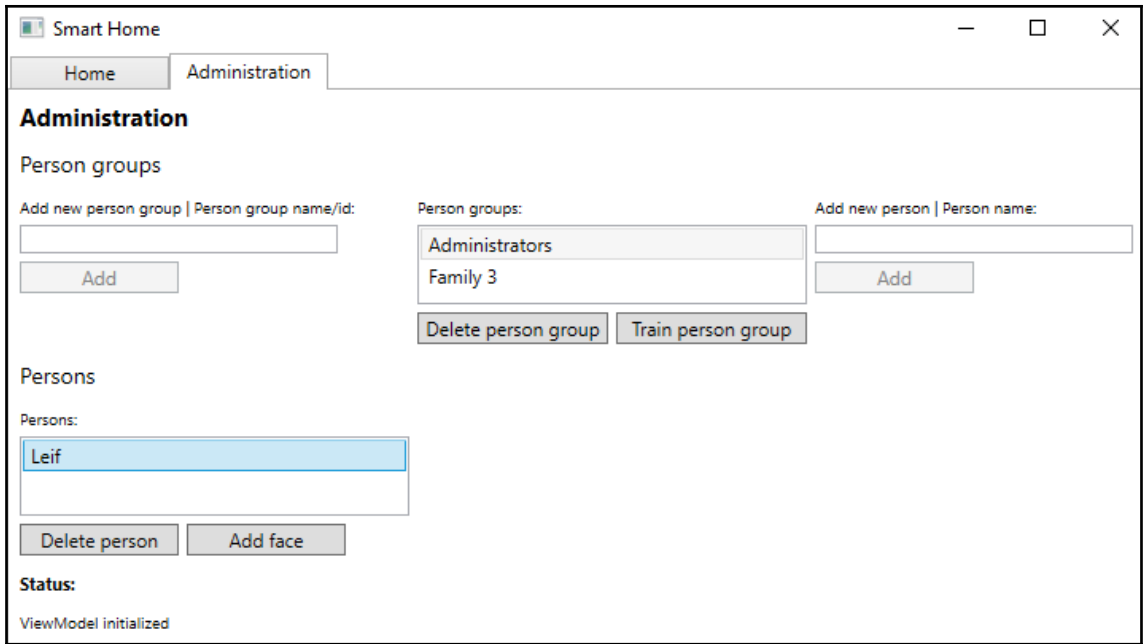
**Face groups:**

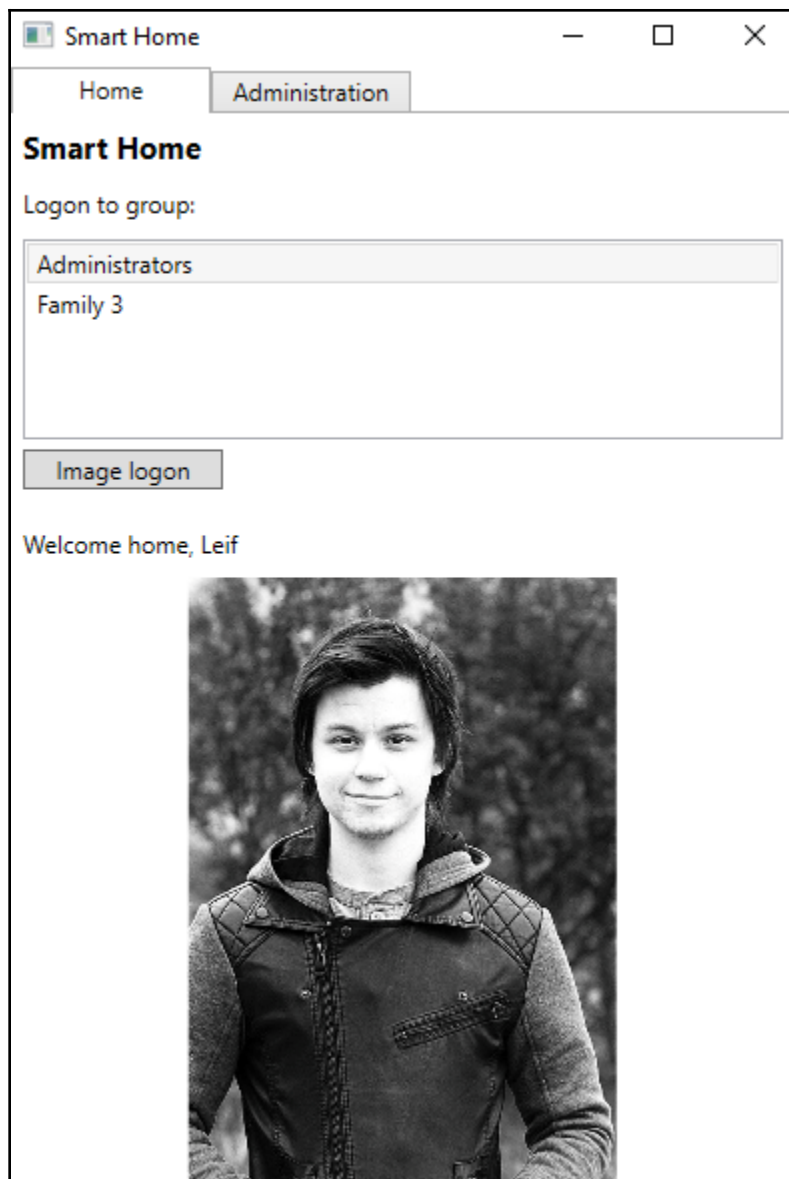
There are 2 group(s)

Groups: Image 3 - Image 1 -

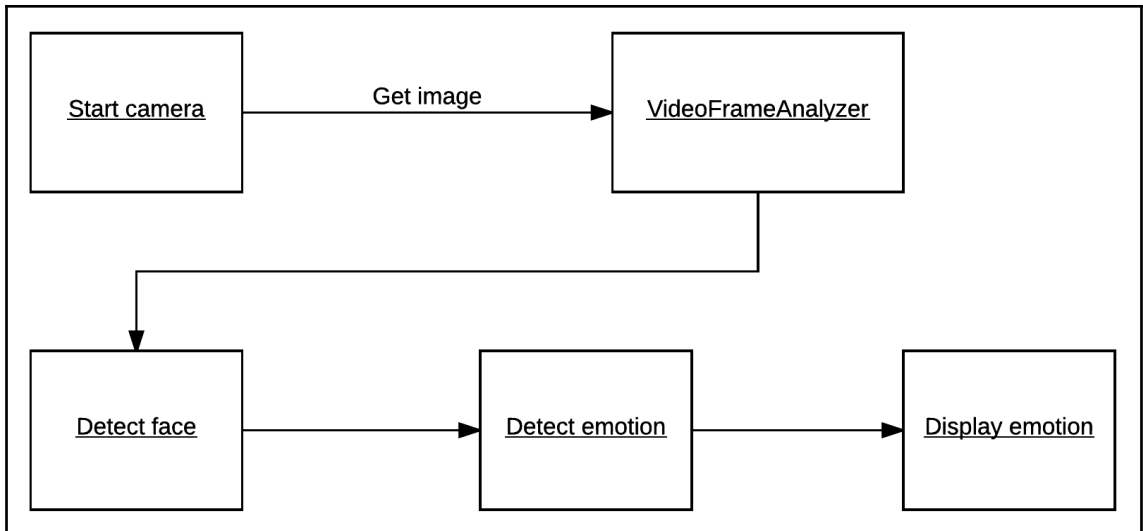
Image 4 - Image 6 -

Messy group: Image 2 - Image 5 -









Smart Home


Home Administration

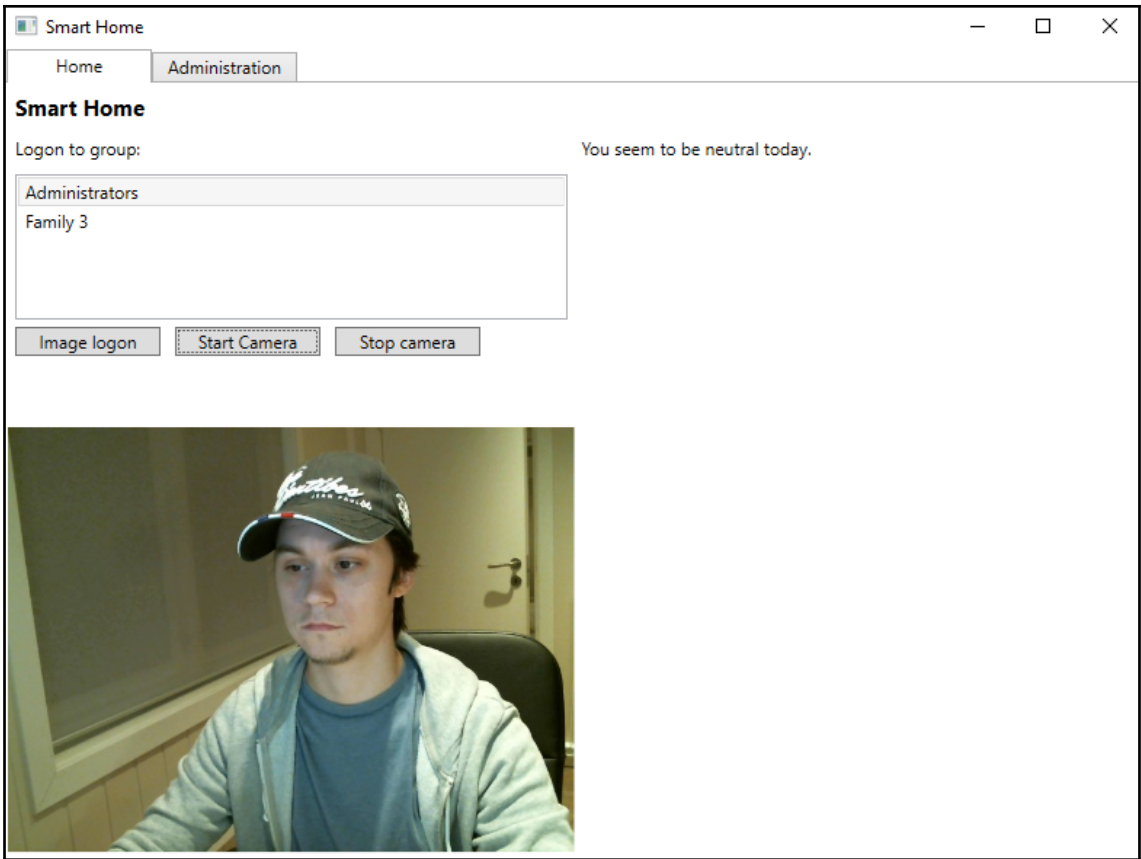
### Smart Home

Logon to group: You seem to be happy today.

Administrators  
Family 3

Image logon Start Camera Stop camera





Microsoft Sign out

## Create review team

Before you begin, let's create a team to help you collaborate on administering and using the review tool. Optionally, invite others now to join your team.

Region : \*  ⓘ

Team Name : \*  ⓘ

Team Id : \*  ⓘ

Invite others :

I agree to the [Microsoft Cognitive Services Terms](#) and [Microsoft Privacy Statement](#).

**Create Team**

Content Moderator Dashboard Try Review ▾ | ⚙️ Book ⓘ Hello Leif Henning Larsen ▾

### Overall Stats

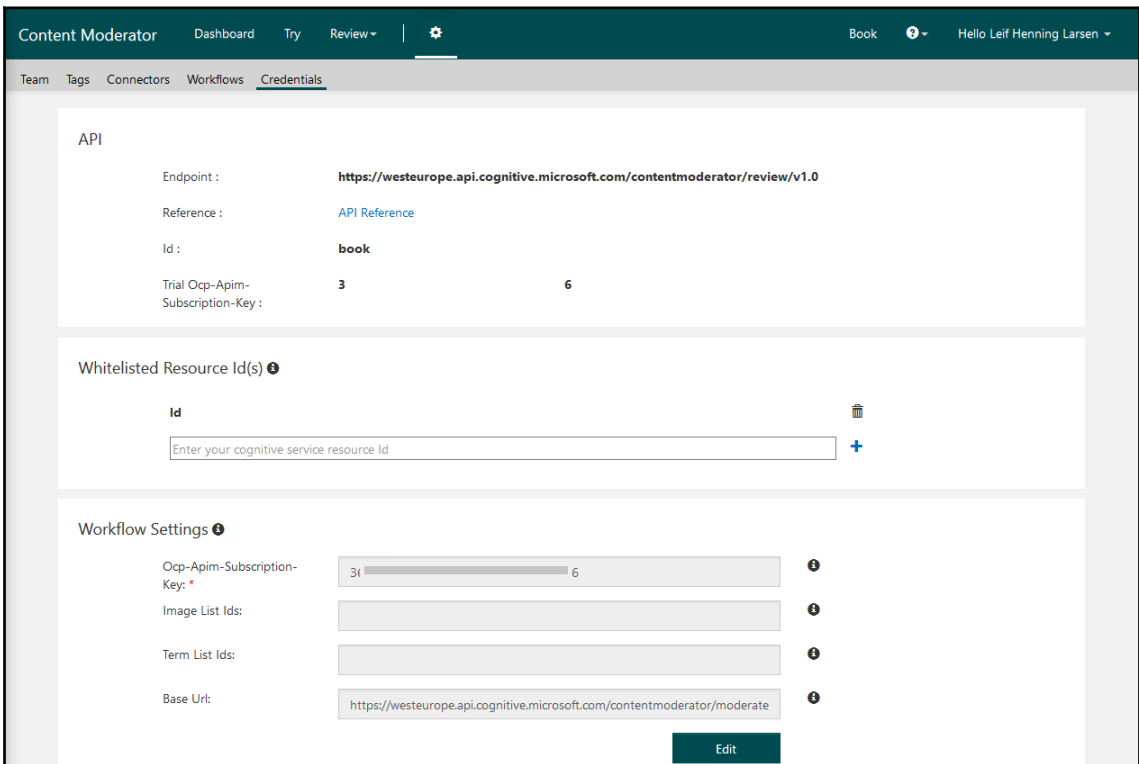
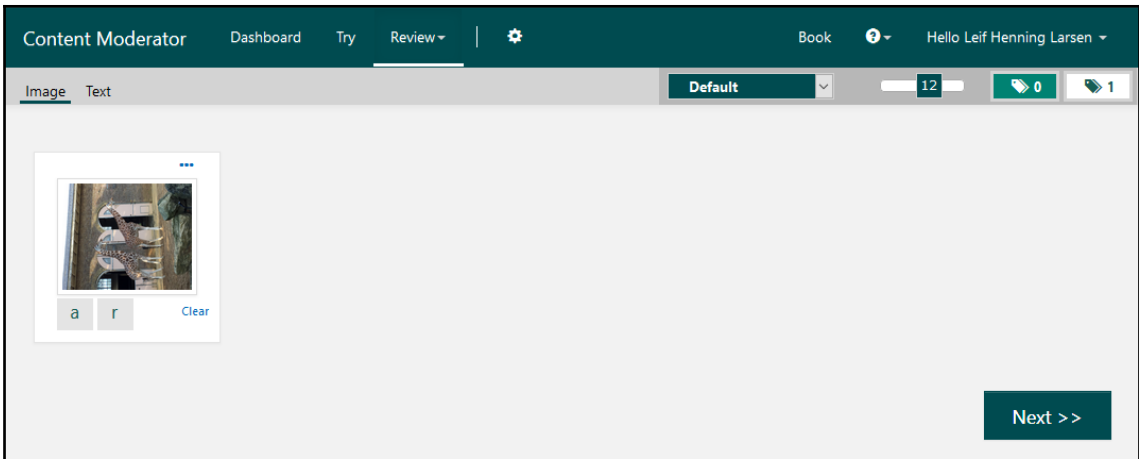
Total	1	1	0
Complete	0	0	0
Pending	1	1	0

### By User

No Data Available

### By Tags

No Data Available



# Chapter 3: Analyzing Videos

## Video Indexer API

HOME APIS PRODUCTS ISSUES SIGN IN

### Sign up

Already a member? [Sign in now](#)

Create a new API Management account

To complete your registration fill out the form below.

**Email**

**First name**

**Last name**

[Sign up](#)

Video Indexer Preview Account leifn89-25193d


### Find exact moments within the videos

Search & filter per the following categories

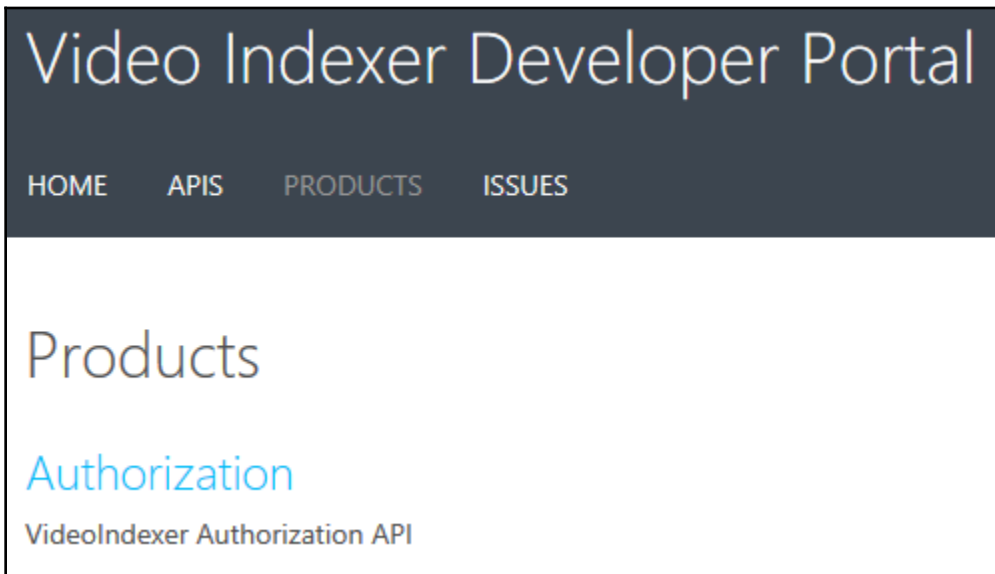
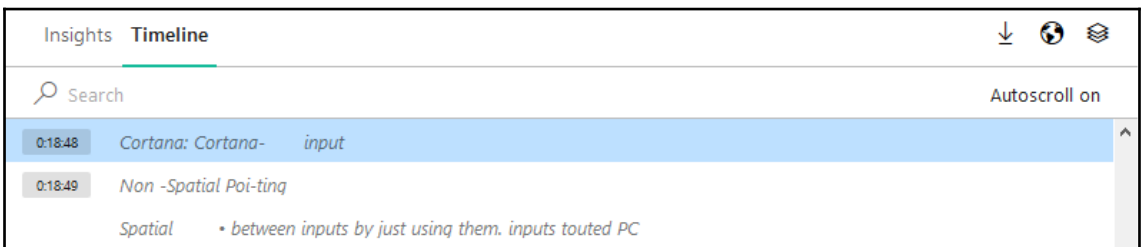
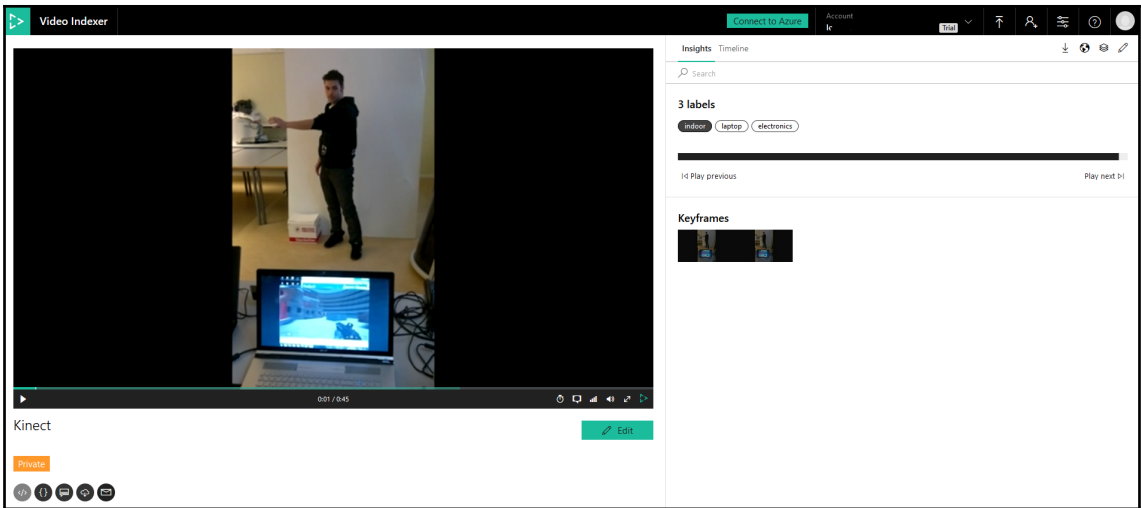
Text or topic (in transcript or any visual content) People and Celebrities (per name)

[Search](#)  
[Show more filters](#) [Clear search](#)

[Account Videos](#) [Sample Videos](#) [Upload](#) [Refresh](#)

  
Upload your first video

[Upload](#)



---

# Video Indexer Developer Portal

HOME

APIS

PRODUCTS

ISSUES

## Authorization

VideoIndexer Authorization API

**This product contains 1 API:**

- [Authorization](#)

**You have 1 subscription to this product:**

- [Authorization subscription](#)

[Add subscription](#)



---

# Video Indexer Developer Portal

HOME APIS PRODUCTS ISSUES

## Subscribe to product

A new subscription will be created as follows:


<b>Product:</b>	<b>Authorization</b>
<b>Description:</b>	VideoIndexer Authorization API
<b>Subscription name:</b>	<input type="text" value="AuthorizationTest"/>

By subscribing to Authorization Product, I agree to the [Terms of Use](#).

Confirm

Cancel


You have successfully subscribed to the **Free Preview** product. Try the [APIs](#) in this product now.

 [Change account information](#)

## Profile

**Email** leif\_h\_89@hotmail.com  
**First name** Leif Henning  
**Last name** Larsen

## Your subscriptions

 [Analytics reports](#)

Subscription details		Product	State	Action
<b>Subscription name</b>	Free Preview	<a href="#">Free Preview</a>	<b>Active</b>	<a href="#">✕ Cancel</a>
<b>Started on</b>	09/05/2017	<a href="#">Rename</a>		
<b>Primary key</b>	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<a href="#">Show   Regenerate</a>		
<b>Secondary key</b>	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<a href="#">Show   Regenerate</a>		

## Your applications

[+ Register application](#)

Name	Category	State
No results found.		

Looking to close your account?

[Close account](#)

---

## Chapter 4: Letting Applications Understand Commands

### Create new app

Name (Required)

Culture (Required)

\*\* Culture is the language that your app understands and speaks, not the interface language.

Description

Done Cancel

Language Understanding My apps Docs Pricing Support About Leif Henning Larsen

SmartHouseApplication (V 0.1) DASHBOARD BUILD PUBLISH SETTINGS Train Test

App Assets

- Intents
- Entities
- Improve app performance
  - Review endpoint utterances
  - Phrase lists
  - Patterns

## Intents ?

Create new intent Add prebuilt domain intent Search intents

Name ^	Labeled Utterances	
Calendar.Add	18	...
Calendar.CheckAvailability	10	...
Calendar.Delete	9	...
Calendar.Edit	11	...
Calendar.Find	10	...
GetNews	5	...
GetRoomTemperature	17	...
GetRoomTemperature2	1	...
None	11	...
SetRoomTemperature	11	...

## Add Entity ✕

Entity name (REQUIRED)

Entity type (REQUIRED)

Save Cancel

---

## Add Entity ✕

Entity name (REQUIRED)

Entity type (REQUIRED)

Child # 1 🗑️

Child # 2 🗑️

[+ Add child](#)

---

### Edit Phrase list ✕

Phrase list name(REQUIRED)

Value(REQUIRED)

Hide related values

Phrase list values(REQUIRED)

Kitchen ✕ living room ✕ bathroom ✕ bedroom ✕ office ✕  
hallway ✕ garage ✕

Related Values [Recommend](#)

Add values and click 'Recommend' to get suggestions

Is exchangeable?

Is active?

Save Cancel

### Add Intent ✕


Intent name (REQUIRED)




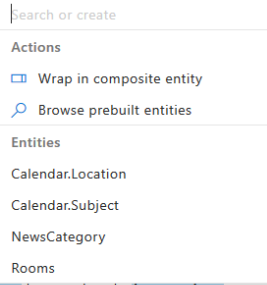

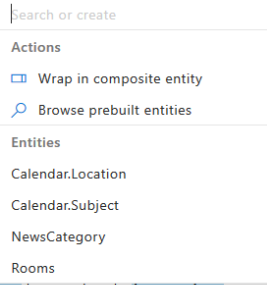

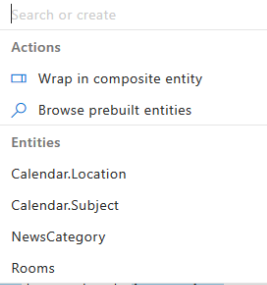



Save Cancel

# SetRoomTemperature


Delete Intent

Type about 5 examples of what a user might say and hit Enter


Entity filters  Show All  Entities View 

<input type="checkbox"/> Utterance	Labeled intent ?
set the [temperature]	SetRoomTemperature 1....  
set the 	SetRoomTemperature 1....  
set the 	SetRoomTemperature 1....  
set the 	SetRoomTemperature 1....  
increas[ed] 	SetRoomTemperature 1....  
set 	SetRoomTemperature 1....  
set 	SetRoomTemperature 1....  

set the **Rooms** temperature to **temperature**

SetRoomTemperature 1....  

## Prebuilt domains



<b>Calendar</b> <p>The Calendar domain provides intents and entities related to calendar entries. The Calendar intents include adding, deleting or editing an appointment, checking availability, and finding information ... <a href="#">Learn more</a></p> <p><a href="#">Remove domain</a></p>	<b>Camera</b> <p>The Camera domain provides intents and entities related to using a camera. The intents cover capturing a photo, selfie, screenshot or video, and broadcasting video to an application ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>	<b>Communication</b> <p>The Communication domain provides intents and entities related to email, messages and phone calls ... <a href="#">Learn more</a></p> <p>Loading ...</p>	<b>Entertainment</b> <p>The Entertainment domain provides intents and entities related to searching for movies, music, games and TV shows ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>	<b>Events</b> <p>The Events domain provides intents and entities related to booking tickets for events like concerts, festivals, sports games and comedy shows ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>
<b>Fitness</b> <p>The Fitness domain provides intents and entities related to tracking fitness activities. The intents include saving notes, remaining time or distance, or saving activity results ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>	<b>Gaming</b> <p>The Gaming domain provides intents and entities related to managing a game party in a multiplayer game ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>	<b>HomeAutomation</b> <p>The Home Automation domain provides intents and entities related to controlling smart home devices like lights and appliances ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>	<b>MovieTickets</b> <p>The Movie Tickets domain provides intents and entities related to booking tickets to movies at a movie theater ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>	<b>Music</b> <p>The Music domain provides intents and entities related to playing music on a music player ... <a href="#">Learn more</a></p> <p><a href="#">Add domain</a></p>



## Intents ?

[Create new intent](#)
[Add prebuilt domain intent](#)

Name ^	Labeled Utterances	
Calendar.Add	18	...
Calendar.CheckAvailability	10	...
Calendar.Delete	9	...
Calendar.Edit	11	...
Calendar.Find	10	...
GetNews	5	...
GetRoomTemperature	17	...
GetRoomTemperature2	1	...
None	15	
SetRoomTemperature	11	...

SETTINGS [Train](#) [→ Test](#)

### Test

[Start over](#) [Batch testing panel](#)

set the room temperature in the kitchen

SetRoomTemperature (0.88) [Inspect](#)

---

## Publish app [?](#)

Select slot

Production

**Publish**

**Published version:** 0.1

**Published date:** Sep 11, 2017, 6:39:00 AM (Approximately 12 month(s) ago)

### External services settings

[Enable Sentiment Analysis](#) [?](#)

[Enable Speech Priming](#) [?](#)

### Endpoint url settings

Timezone

(GMT) Western Europe Time, London, Lisbon, Casablanca

[Include all predicted intent scores](#) [?](#)

[Enable Bing spell checker](#) [?](#)

### Resources and Keys

```
JSON | Raw Data | Headers
Save Copy
query: "get the bedroom temperature"
topScoringIntent:
  intent: "GetRoomTemperature"
  score: 0.981855154
  actions:
    0:
      triggered: true
      name: "GetRoomTemperature"
      parameters:
        0:
          name: "Room"
          type: "Rooms"
          required: true
          value:
            0:
              entity: "bedroom"
              type: "Rooms"
              resolution:
intents:
  0:
    intent: "GetRoomTemperature"
    score: 0.981855154
    actions:
      0:
        triggered: true
        name: "GetRoomTemperature"
        parameters:
          0:
            name: "Room"
            type: "Rooms"
            required: true
            value:
              0:
                entity: "bedroom"
                type: "Rooms"
                resolution: Object
  1:
    intent: "None"
    score: 0.106256679
  2:
    intent: "SetRoomTemperature"
    score: 0.00191827933
```

---

# App Settings

Application ID: 6877e272-a517-4574-a0af-06f730bbc4b3

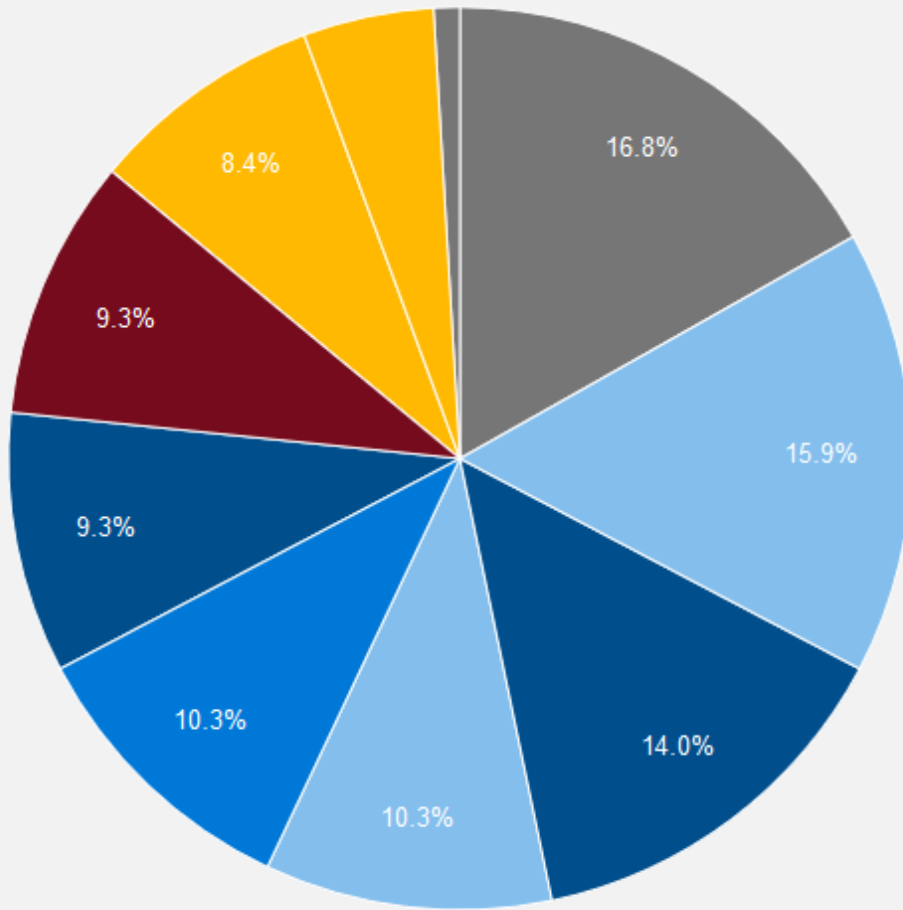
The screenshot shows a web application window titled "Smart Home" with three tabs: "Home", "LUIS", and "Administration". The "Administration" tab is active. The interface is split into two main sections: "Input text" and "Results".

**Input text:** A text area containing the query "what is the bedroom temperature?". Below the text area is a button labeled "Execute utterance".

**Results:** A text area displaying the following information:  
Status: Succeeded  
Summary: Top intent is GetRoomTemperature with score 0,8229306. Found 1 entities.  
Entities found: 1  
Entities:  
Name: Rooms    Value: bedroom

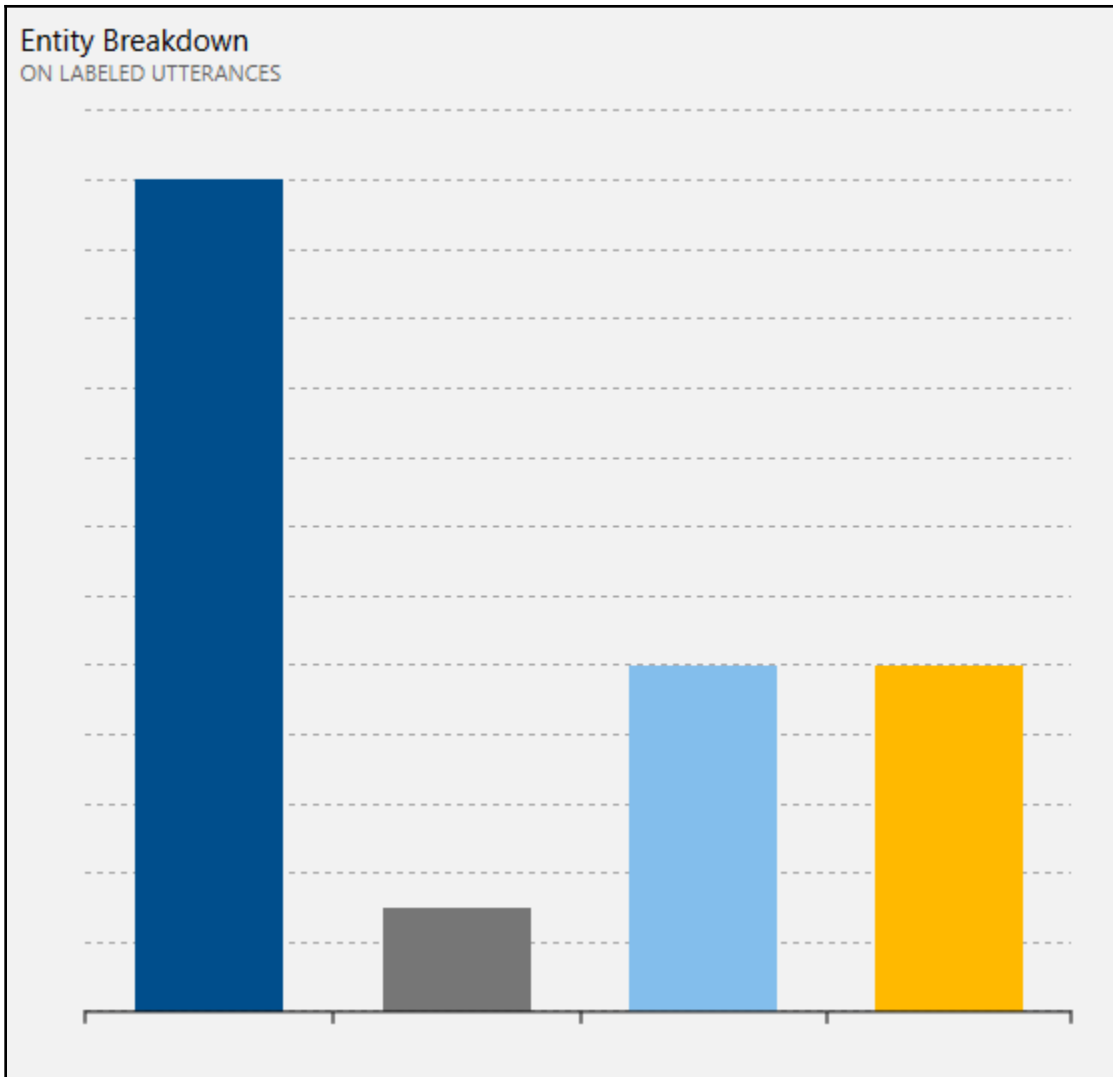
---

**Intent Breakdown**  
ON LABELED UTTERANCES



---

Entity Breakdown  
ON LABELED UTTERANCES



Watch 1	
Name	Value
result	{Microsoft.Cognitive.LUIS.LuisResult}
DialogResponse	null
Entities	Count = 0
Raw View	
Intents	{Microsoft.Cognitive.LUIS.Intent[3]}
[0]	{Microsoft.Cognitive.LUIS.Intent}
[1]	{Microsoft.Cognitive.LUIS.Intent}
[2]	{Microsoft.Cognitive.LUIS.Intent}
OriginalQuery	"can you tell me the bedroom temperature?"
Reply	{Method = {Microsoft.Cognitive.LUIS.LuisResult <.ctor> b_0(System.String)}}
TopScoringIntent	{Microsoft.Cognitive.LUIS.Intent}
Actions	{Microsoft.Cognitive.LUIS.Action[0]}
Name	"None"
Score	0.6122963

### Review endpoint utterances [?](#)

Filter list by intent or entity Add all selected utterances to their aligned intents

Type intent or entity name   Entities view Add selected

Utterance	Aligned intent <a href="#">?</a>	Add to aligned intent	Delete
<input type="checkbox"/> set the <b>Rooms</b> temperature to <b>temperature</b>	SetRoomTemperature 0... <input type="text" value=""/>	<input checked="" type="checkbox"/>	<input type="button" value="Delete"/>

Watch 1	
Name	Value
result	{Microsoft.Cognitive.LUIS.LuisResult}
DialogResponse	null
Entities	Count = 1
[0]	{[Rooms, System.Collections.Generic.List`1[Microsoft.Cognitive.LUIS.Entity]}
Key	"Rooms"
Value	Count = 1
[0]	{Microsoft.Cognitive.LUIS.Entity}
EndIndex	26
Name	"Rooms"
Resolution	Count = 0
Score	0.8959288
StartIndex	20
Value	"bedroom"
Raw View	
Non-Public members	
Raw View	
Intents	{Microsoft.Cognitive.LUIS.Intent[3]}
OriginalQuery	"can you tell me the bedroom temperature?"
Reply	{Method = {Microsoft.Cognitive.LUIS.LuisResult <.ctor> b_0(System.String)}}
TopScoringIntent	{Microsoft.Cognitive.LUIS.Intent}
Actions	{Microsoft.Cognitive.LUIS.Action[1]}
Name	"GetRoomTemperature"
Score	0.491344



---

# Chapter 5: Speaking with Your Application

Speaker profiles

Add new speaker profile

Add

Speaker profiles:

be4d3d7b-9b50-4b12-9180-ad0ba926b844

Delete speaker Start enrollment rec. Stop recording Reset enrollment

**Status:**  
Enrollment finished. Enrollment status: Enrolled

Smart Home

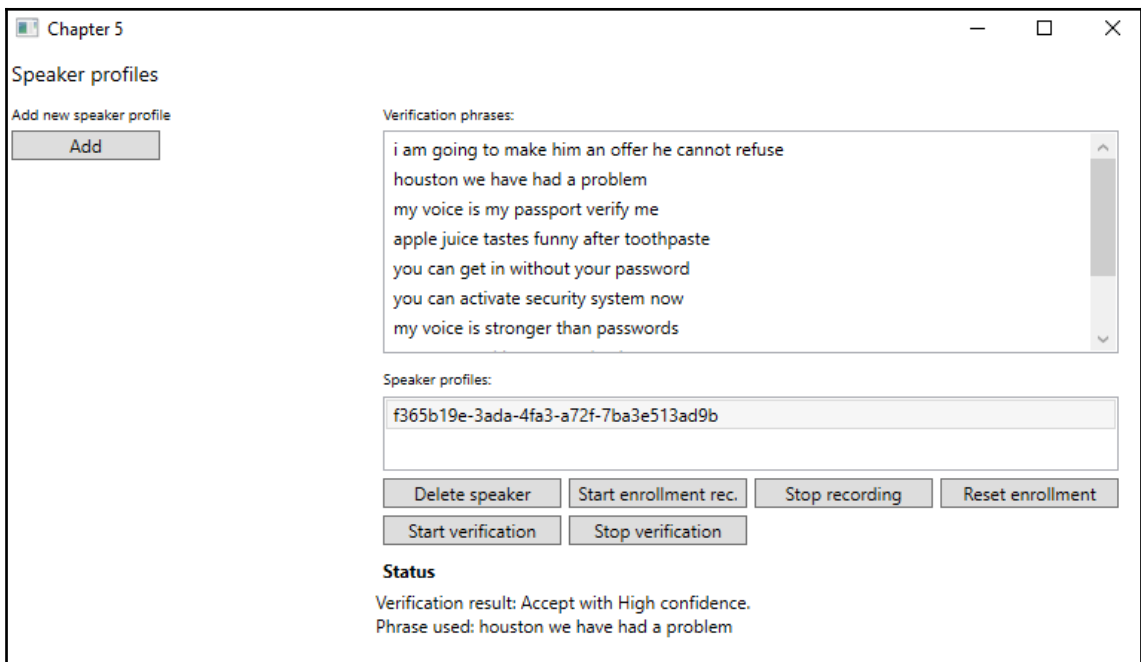
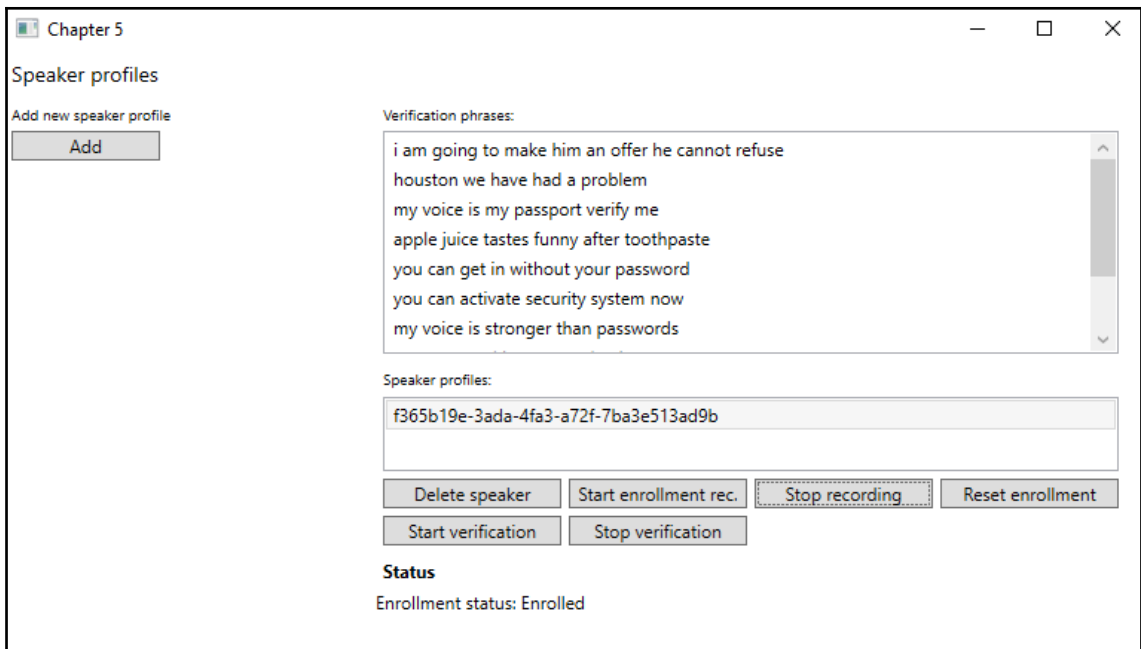
Home LUIS Administration

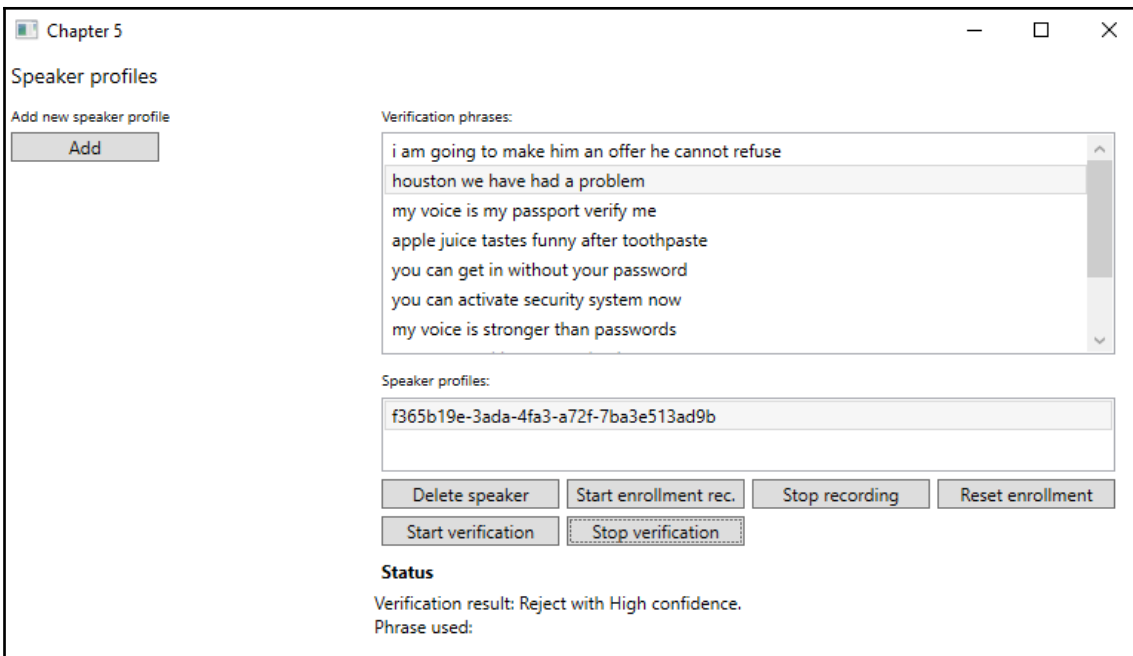
**Smart Home**

Logon to group: Hi there, be4d3d7b-9b50-4b12-9180-ad0ba926b844

Image logon Start Camera Stop camera

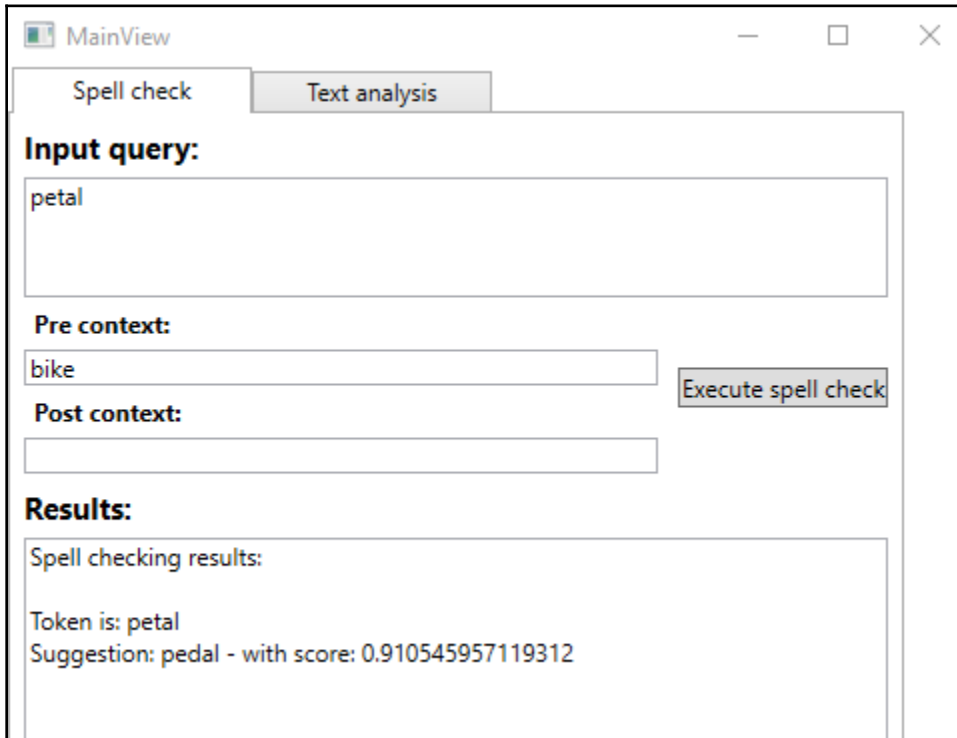
Start Recording Stop Recording

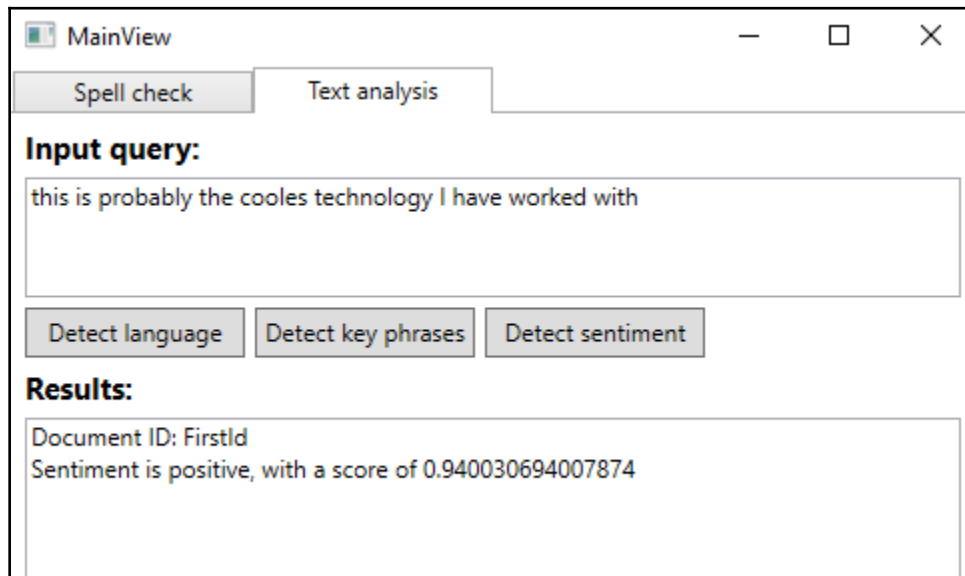
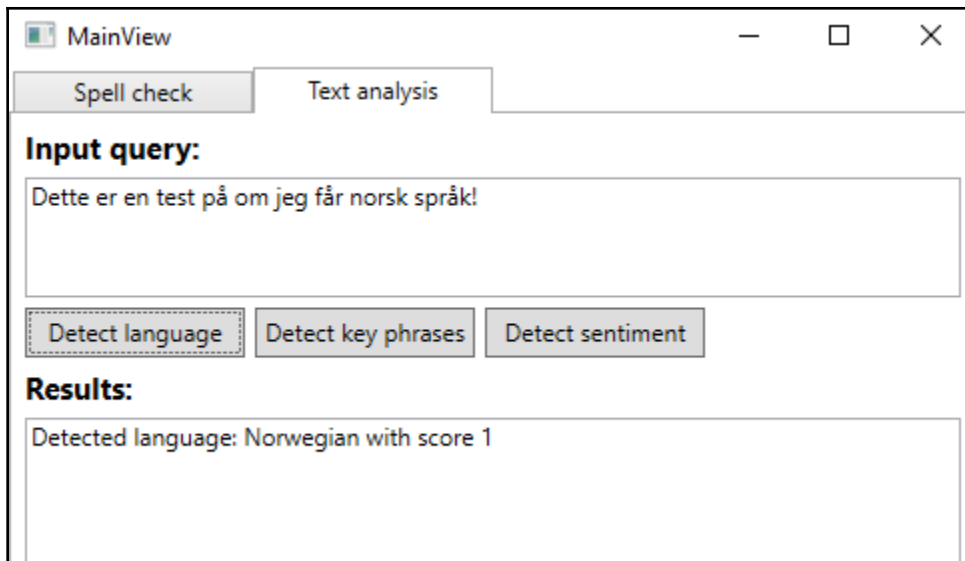




---

## Chapter 6: Understanding Text






---

# Chapter 7: Building Recommendation Systems for Businesses

README.md

## Product Recommendation Solutions deployment via ARM

 Deploy to Azure

### Deployment Instructions

Before proceeding, please ensure that you have an active Azure Subscription. If you do not, create one by visiting the [Azure Portal](#). Once this is complete, click on the Deploy To Azure button above. The default parameters should suffice. If you wish to change them, you may go ahead and select a different value from the dropdown for the Account Type, Hosting Plan Sku, and the App Insights Location. We recommend leaving the Deploy Package Uri to its default value.

Once your deployment is complete, please return here to read the Next steps.

## Custom deployment

Deploy from a custom template

### TEMPLATE



Customized template  
3 resources



Edit template



Edit parameters



Learn more

### BASICS

\* Subscription

\* Resource group  Create new  Use existing

\* Location

### SETTINGS

Account Type ⓘ

Hosting Plan Sku ⓘ

App Insights Location ⓘ

Deploy Package Uri ⓘ

### TERMS AND CONDITIONS

[Azure Marketplace Terms](#) | [Azure Marketplace](#)

By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

I agree to the terms and conditions stated above

Purchase

Home > Resource groups > cogservices > cogserv1st - Blobs > catalog

### catalog


Container

Search (Ctrl+F) «

↑ Upload
↻ Refresh
🗑 Delete
🔒 Acquire lease
🔓 Break lease
📷 View snapshots
📄 Create snapshot

Location: catalog

Search blobs by prefix (case-sensitive)   Show deleted blobs

NAME	MODIFIED	BLOB TYPE	SIZE	LEASE STATE
 catalog.csv	9/11/2018, 8:16:40 AM	Block blob	156.8 KiB	Available

**Overview**  
 Access Control (IAM)  
 Settings  
 Access policy  
 Properties  
 Metadata

Postman

File Edit View Help

+ New Import Runner My Workspace Invite Upgrade

https://cogservicesbw + ... AAD 👁 ⚙

POST https://cogservicesbwq3bgzu73hiyws.azurewebsites.net/api/models Params Send Save

Authorization Headers (2) **Body** Pre-request Script Tests Cookies Code

form-data  x-www-form-urlencoded  raw  binary JSON (application/json)

```

1 {
2   "description": "test model",
3   "blobContainerName": "data",
4   "catalogFileRelativePath": "catalog",
5   "usageRelativePath": "usage"
6 }
  
```

Body Cookies (1) Headers (10) Test Results Status: 201 Created Time: 478 ms Size: 968 B

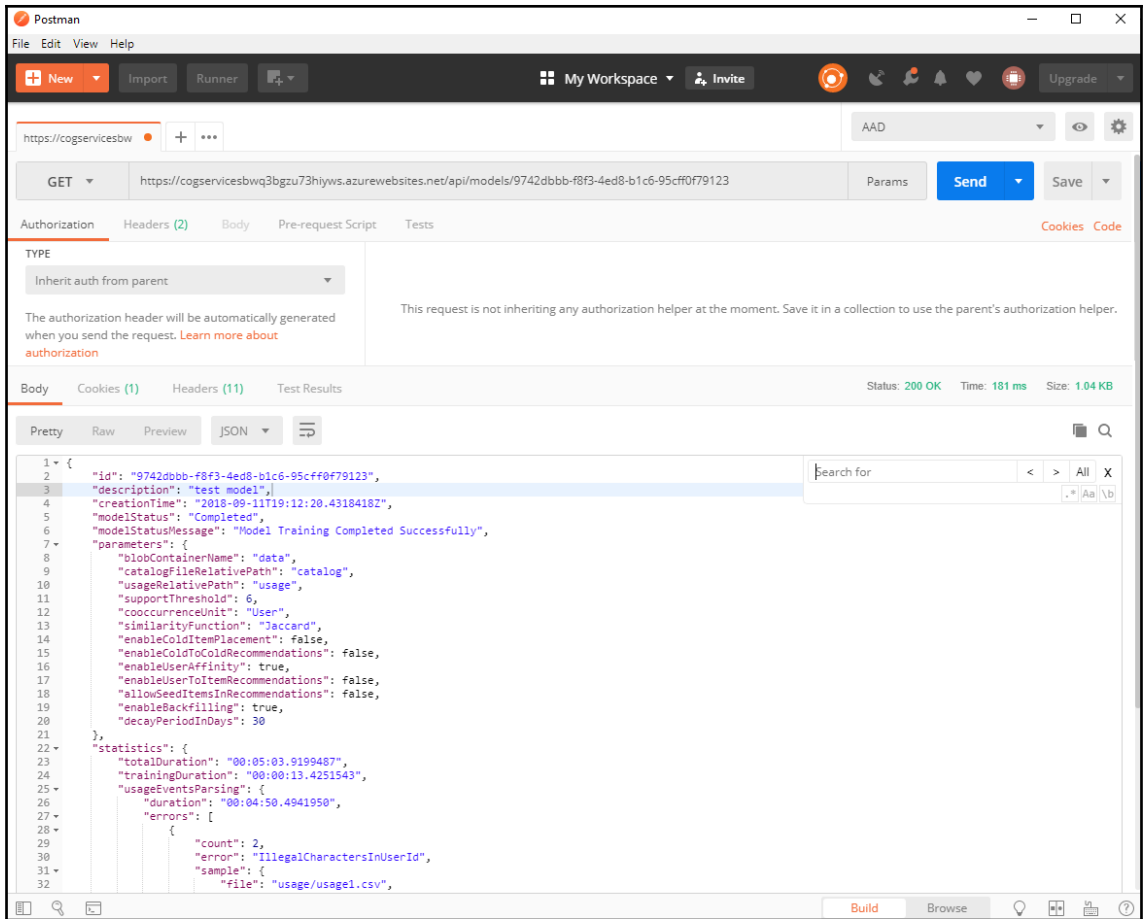
Pretty Raw Preview JSON 🔍

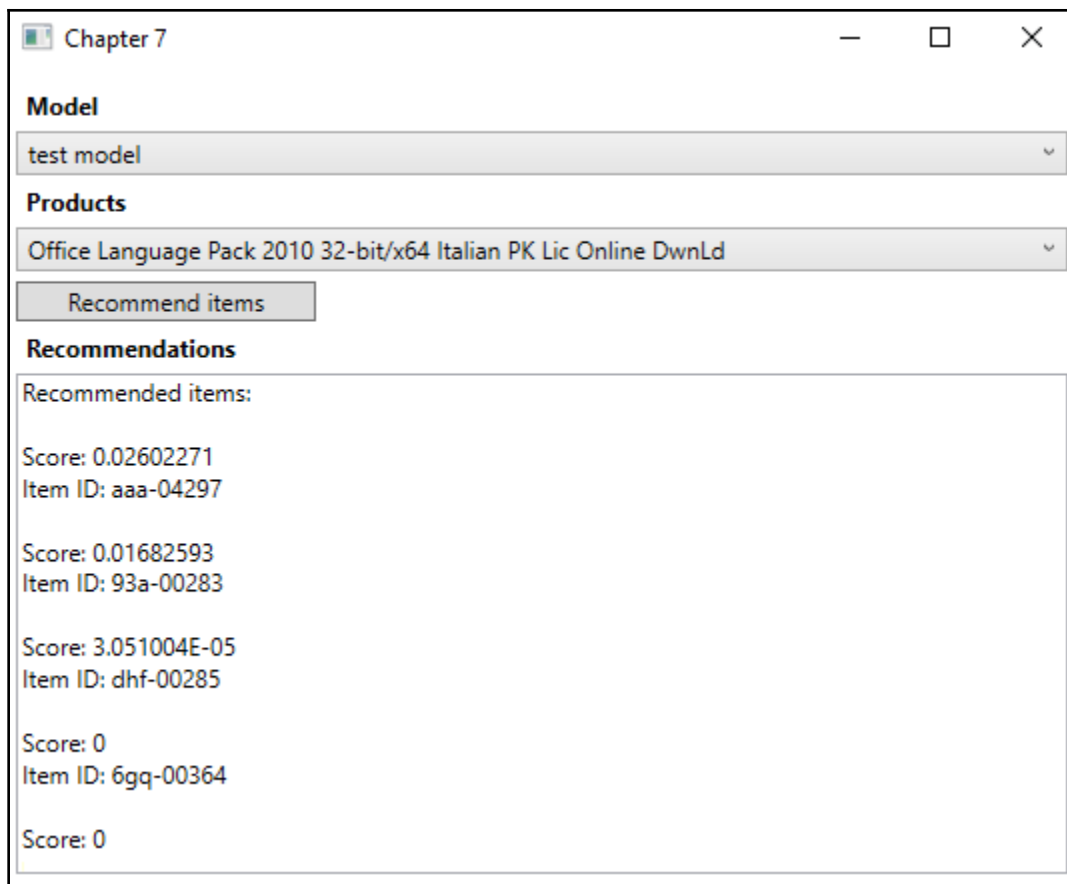
```

1 {
2   "id": "9742dbbb-f8f3-4ed8-b1c6-95cff0f79123",
3   "description": "test model",
4   "creationTime": "2018-09-11T19:12:20.4318418Z",
5   "modelStatus": "Created",
6   "parameters": {
7     "blobContainerName": "data",
8     "catalogFileRelativePath": "catalog",
9     "usageRelativePath": "usage",
10    "supportThreshold": 6,
11    "cooccurrenceUnit": "User",
12    "similarityFunction": "Jaccard",
13    "enableColdItemPlacement": false,
14    "enableColdToColdRecommendations": false,
15    "enableUserAffinity": true,
16    "enableUserToItemRecommendations": false,
17    "allowSeedItemsInRecommendations": false,
  
```

🔍 📄 Build Browse 💡 🖨 📄 ?

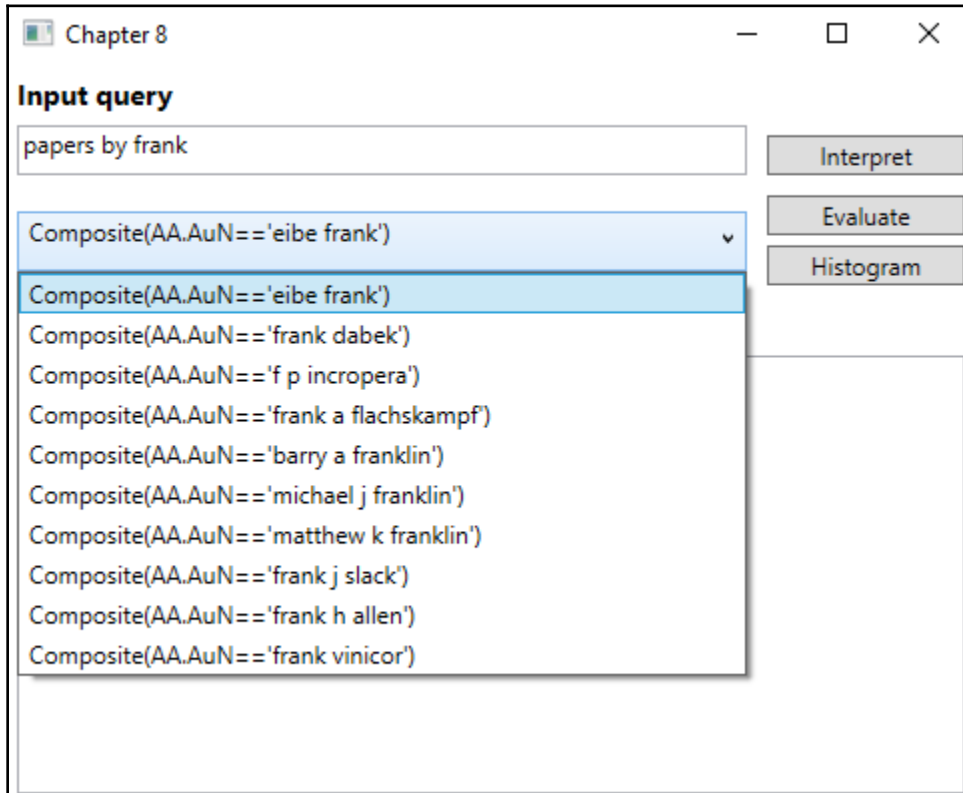






---

## Chapter 8: Querying Structured Data in a Natural Way



Chapter 8

**Input query**

papers by frank

Composite(AA.AuN== 'frank dabek')

Interpret

Evaluate

Histogram

**Results**

Expression Composite(AA.AuN== 'frank dabek') returned 10 entities

Paper title: chord a scalable peer to peer lookup protocol for internet applications  
Date: 2003-02-01  
Authors:  
ion stoica  
r morris  
david libennowell  
david r karger  
m f kaashoek  
frank dabek  
hari balakrishnan

Paper title: wide area cooperative storage with cfs  
Date: 2001-10-21  
Authors:  
frank dabek  
m frans kaashoek  
david r karger  
robert morris  
ion stoica

Paper title: vivaldi a decentralized network coordinate system  
Date: 2004-08-30  
Authors:

Chapter 8

**Input query**

papers by frank

Composite(AA.AuN=='frank dabek')

Interpret

Evaluate

Histogram

**Results**

Total number of matching entities: 19

Attribute: Y

- Value '2003' was found 5 times
- Value '2001' was found 2 times
- Value '2004' was found 4 times
- Value '2010' was found 1 times
- Value '2006' was found 4 times
- Value '2002' was found 2 times
- Value '1998' was found 1 times

Attribute: F.FN

- Value 'computer science' was found 15 times
- Value 'distributed computing' was found 11 times
- Value 'computer network' was found 6 times
- Value 'world wide web' was found 5 times
- Value 'chord' was found 4 times
- Value 'routing' was found 2 times
- Value 'the internet' was found 2 times
- Value 'steady state' was found 1 times
- Value 'application software' was found 1 times
- Value 'routing protocol' was found 1 times

Click [here](#) to see details about the web service

Enter a query below to see interpretations. After 1 second, entities and histograms will be fetched for the first interpretation. You can click on other interpretations to fetch objects and histograms for them.

papers by

**Interpret URL:** <interpret?complete=1&results=0&query=papers by>

- [papers by james r bergen](#)
- [papers by hugh r wilson](#)
- [papers by paramvir bahl](#)
- [papers by bishnu s atal](#)
- [papers by suzanne l hanauer](#)
- [papers by andrew blake](#)
- [papers by zhengyou zhang](#)
- [papers by hugues hoppe](#)

**Evaluate URL:**

[evaluate?attributes=\\*&expr=Composite\(Author\\_Name=='james r bergen'\)](evaluate?attributes=*&expr=Composite(Author_Name=='james r bergen'))

```
{
  "logprob": -13.963,
  "Title": [
    "a four mechanism model for threshold spatial vision"
  ],
  "Year": [
    1979
  ],
  "Keyword": [],
  "Author": [
    {
      "Id": [
        2225066386
      ],
      "Name": [
        "hugh r wilson"
      ],
      "Affiliation": [
        "microsoft"
      ]
    }
  ]
}
```

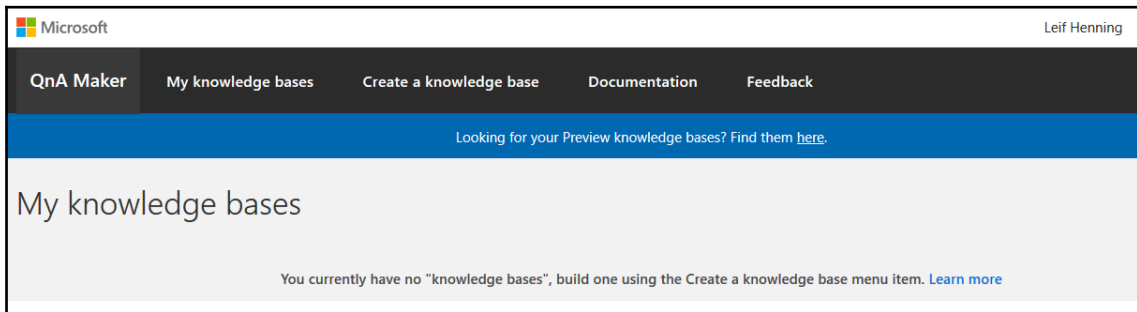
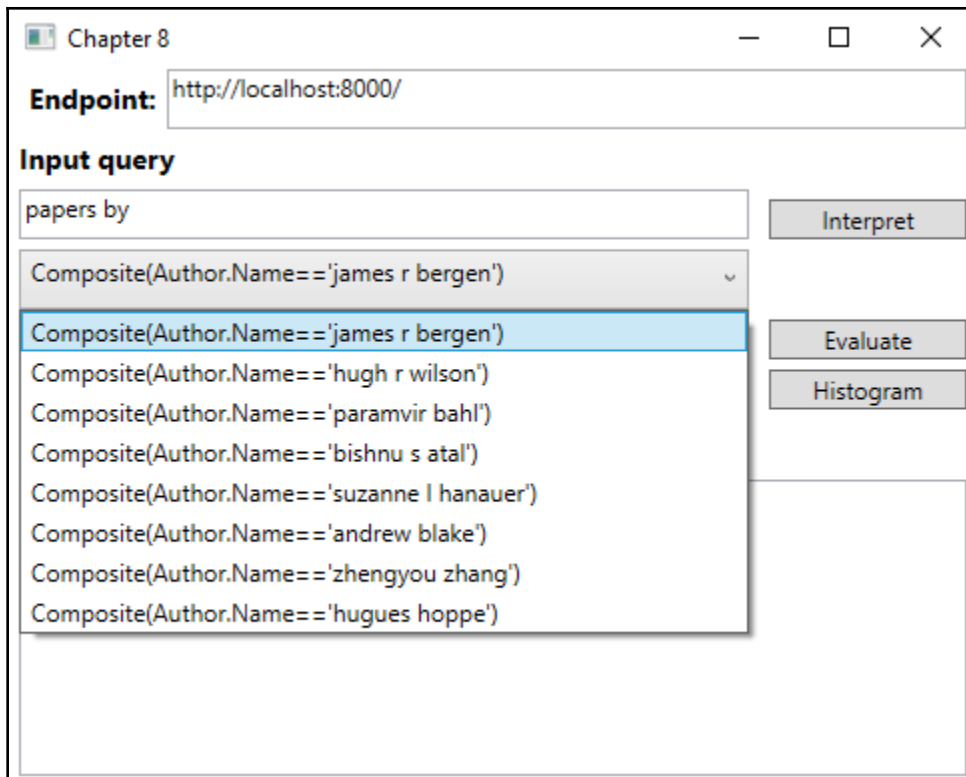
**CalcHistogram URL:**

[histogram?attributes=\\*&expr=Composite\(Author\\_Name=='james r bergen'\)](histogram?attributes=*&expr=Composite(Author_Name=='james r bergen'))

```
{
  "attribute": "Title",
  "distinct_values": 1,
  "total_count": 1,
  "histogram": [
    {
      "value": "a four mechanism model for threshold spatial vision",
      "logprob": -13.963,
      "count": 1
    }
  ]
}

{
  "attribute": "Year",
  "distinct_values": 1,
  "total_count": 1,
  "histogram": [
    {
      "value": 1979,

```



Looking for your Preview knowledge bases? Find them [here](#).

## Create a knowledge base

Create an Azure service for your QnA knowledge base and add sources that contain the question and answer pairs you would like to include.  
[Learn more about creating a knowledge base.](#)

STEP 1

### Create a QnA service in Microsoft Azure.

Create an Azure QnA service for your KB. If you already have an Azure QnA service for this KB, skip this step.  
[Learn more about Azure subscriptions, pricing tiers, and keys.](#)

Create a QnA service

STEP 2

### Connect your QnA service to your KB.

After you create an Azure QnA service, [refresh this page](#) and then select your Azure service using the options below.

\* Microsoft Azure Directory ID

Select tenant

\* Azure subscription name

Select subscription

\* Azure QnA service

Select service



STEP 3

**Name your KB.**

The knowledge base name is for your reference and you can change it at anytime.

\* Name

STEP 4

**Populate your KB.**

Extract question-and-answer pairs from an online FAQ, product manuals, or other files. Supported formats are .tsv, .pdf, .doc, .docx, .xlsx, containing questions and answers in sequence. [Learn more about knowledge base sources](#). Skip this step to add questions and answers manually after creation. The number of sources and file size you can add depends on the QnA service SKU you choose. [Learn more about QnA Maker SKUs](#).

URL

+ [Add URL](#)

File name

+ [Add file](#)

STEP 5

**Create your KB**

The tool will look through your documents and create a knowledge base for your service. If you are not using an existing document, the tool will create an empty knowledge base table which you can edit.

QnA Maker My knowledge bases Create a knowledge base Documentation Feedback Leaf Henning

MyTestKbQna EDIT PUBLISH SETTINGS Save and train Test

## Knowledge base

Search the knowledge base + Add QnA pair ⚙️

Question	Answer
<p>Original source: <a href="https://www.microsoft.com/en-us/software-download/faq">https://www.microsoft.com/en-us/software-download/faq</a></p> <p>How do I find my Windows product key? <span>×</span> <span>+</span></p>	<p>Windows 8.1 and Windows 10 The product key is located inside the product packaging, on the receipt or confirmation page for a digital purchase or in a confirmation e-mail that shows you purchased Windows. If you purchased a digital copy from (Microsoft Store) (<a href="https://www.microsoftstore.com/store/msusa/en_US/home">https://www.microsoftstore.com/store/msusa/en_US/home</a>), you can locate your product key in your Account under Digital Content. In Windows 7, the product key is located inside the box that the Windows DVD came in, on the DVD, on the receipt or confirmation page for a digital purchase or in a confirmation e-mail that shows you purchased Windows. If you purchased a digital copy from (Microsoft Store) (<a href="https://www.microsoftstore.com/store/msusa/en_US/home">https://www.microsoftstore.com/store/msusa/en_US/home</a>), you can locate your product key in your Account under Digital Content. In Academic Products, your product key is located on the receipt page when you purchase or in the Order History section of the WebStore from which you ordered the software. Devices pre-installed with Windows Before using operating system copies from this site for install, re-install or recovery on devices with pre-installed operating systems, see your device manufacturer or reseller for the customized drivers and applications specific to your machine. Using operating systems copied from this site for install, re-install or recovery may void your support agreement with your manufacturer or reseller. Any drivers or programs that were installed by the device manufacturer or reseller may be removed during</p>

Test ↻ Start over

Type your message...

my product key won't verify

Inspect You

The most common issue is the use of a product key for a product not currently supported by the site such as an Upgrade key, an MSDN key, product keys for pre-installed media or an Enterprise edition key. For access to MSDN products or Enterprise edition visit the [MSDN Portal](#) or the [Volume Licensing Service Center](#). Upgrades and pre-installed media are not currently supported by the tools on the site. If you believe you have a valid product key and are still receiving an error, please [contact Support](#).

MyTestKbQna at 3:34 PM

---

## Success! Your service has been deployed. What's next?

You can always find the deployment details in your service's settings.

Use the below HTTP request to build your bot. [Learn how.](#)

Sample HTTP request

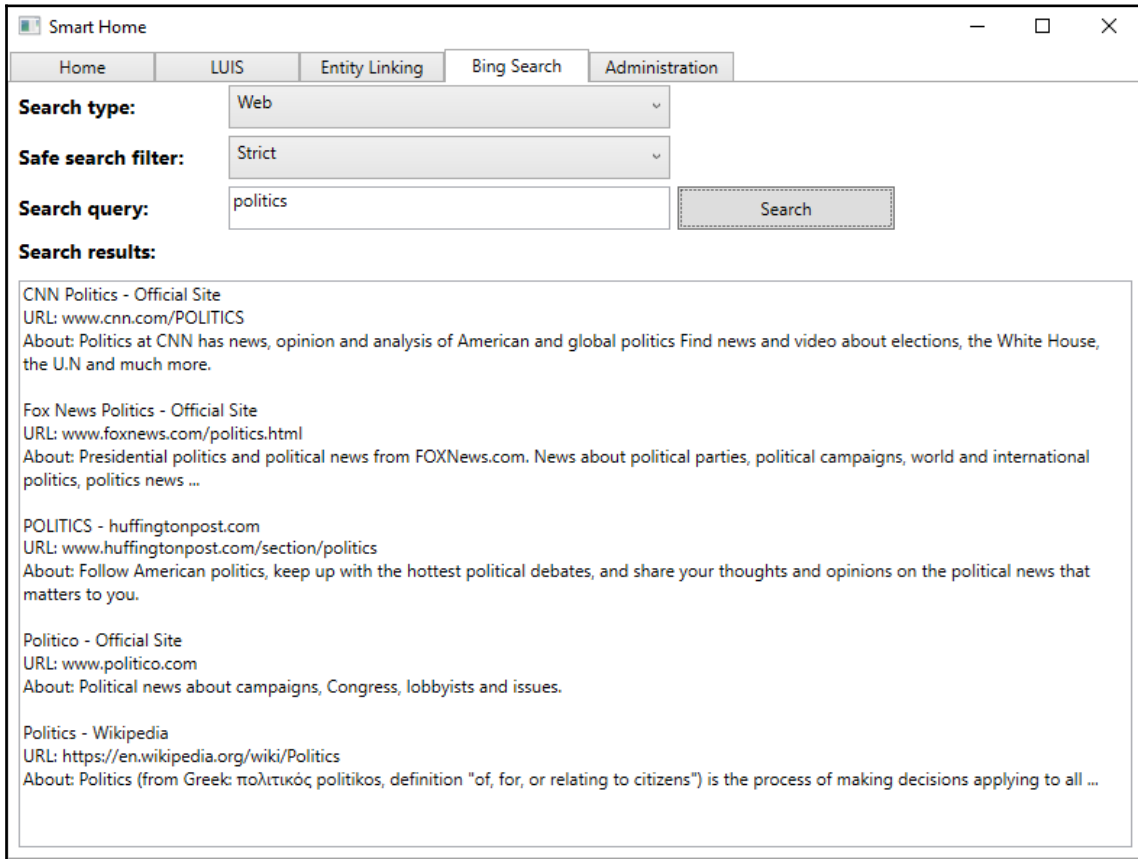
```
POST /knowledgebases/b023bf1e-9065-4bd8-af3f-a9e1133ca041/generateAnswer
Host: https://lhlqnaservice.azurewebsites.net/qnamaker
Authorization: EndpointKey 4c4589c9-0fb3-40b4-85d5-c31a5b4e97c5
Content-Type: application/json
{"question": "<Your question>"}
```

Need to fine-tune and refine? Go back and keep editing your service.

[Edit Service](#)

---

# Chapter 9: Adding Specialized Searches



Smart Home

Home LUIS Entity Linking Bing Search Administration

**Search type:** News

**Safe search filter:** Moderate

**Search query:** manchester united

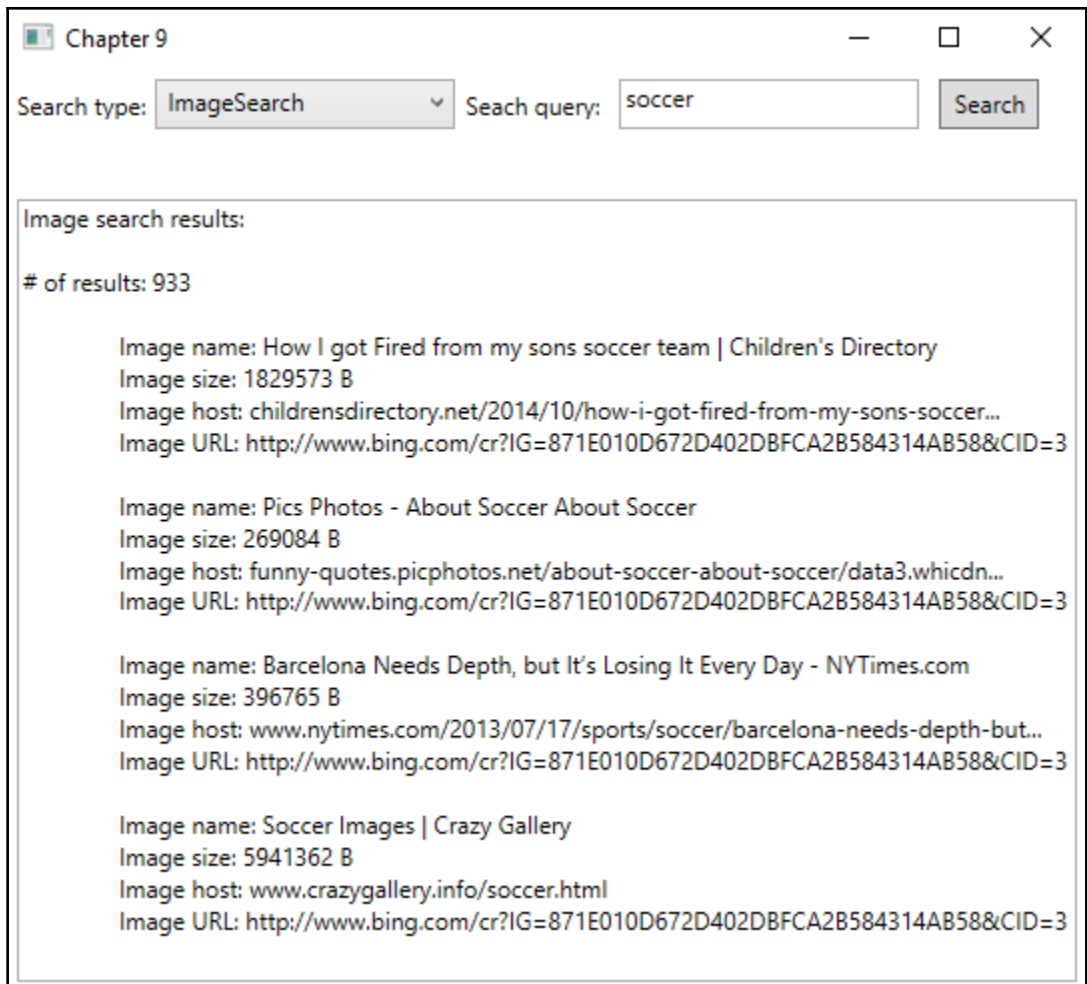
**Search results:**

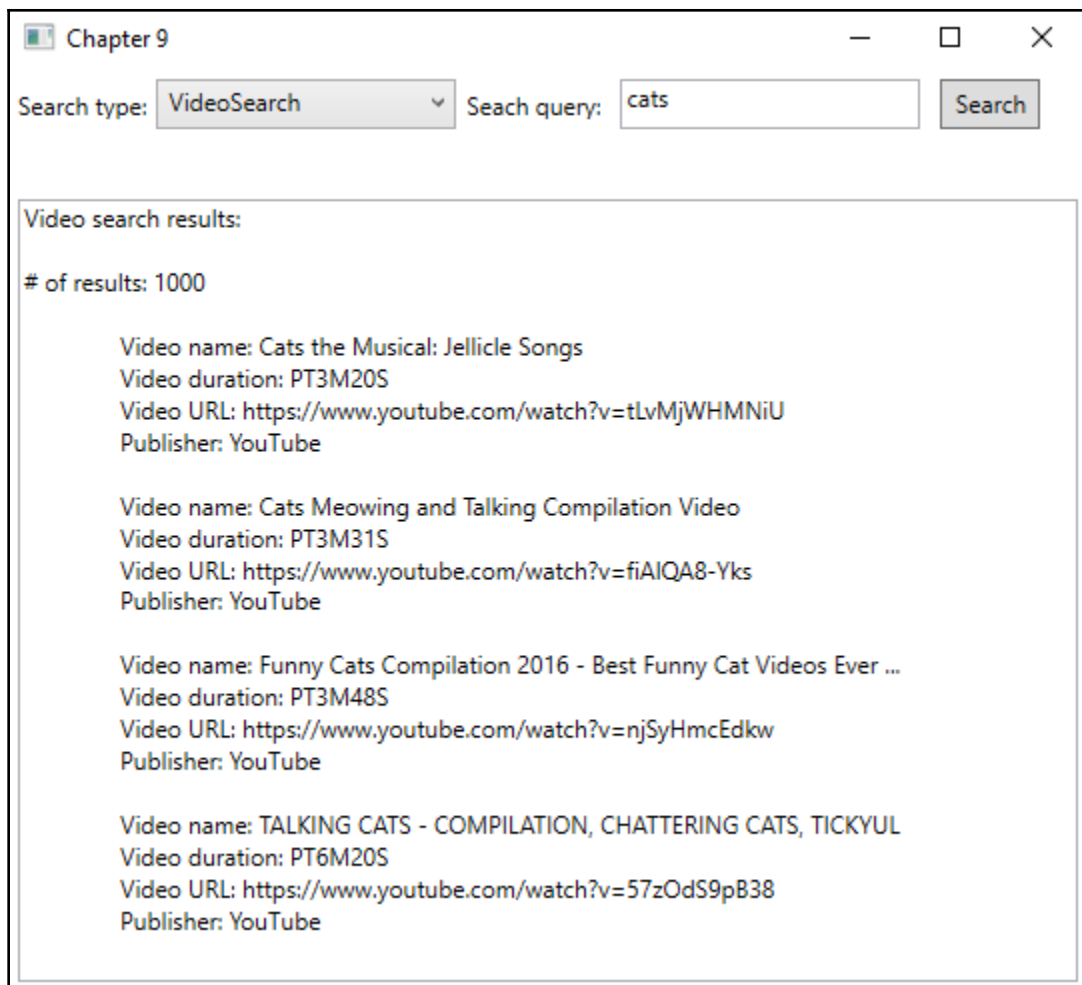
Manchester United Transfer News: Latest Rumours on Nelson Semedo Before January  
Published: 28.12.2016 09.45.00  
Manchester United are reportedly planning a £35 million move for Benfica right-back Nelson Semedo to be a long-term replacement for Antonio Valencia. According to the Mirror, talks have already begun over a move to Old Trafford for the Portugal ...

Manchester United shun Benfica's Victor Lindelof after defence improves  
Published: 28.12.2016 20.07.00  
• Talks over Sweden defender were in progress for several weeks • United have conceded only two goals in a winning run of five games  
Manchester United have opted against making a move for the Benfica defender Victor Lindelof after José Mourinho ...

Manchester United target Leon Bailey could leave Genk in January  
Published: 28.12.2016 19.44.00  
Leon Bailey has been linked with Manchester United and Leicester. Leon Bailey, a reported target for Manchester United and Leicester City, has said he could follow in Wilfred Ndidi's footsteps by leaving Genk. With Ndidi set to wrap up a move to Leicester ...

Victor Lindelof: Manchester United will not bid for Benfica centre-back  
Published: 28.12.2016 19.01.00  
Victor Lindelof made his debut for Benfica during the 2013-14 season and has 11 caps for Sweden Manchester United will not make a move for Benfica defender Victor Lindelof during the January transfer window. United manager Jose Mourinho was reported to be ...





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## Chapter 10: Connecting the Pieces

Add Entity ✕


Entity name (REQUIRED)

Entity type (REQUIRED)

Add Intent ✕


Intent name (REQUIRED)



GetNews 

[Delete Intent](#)

Type about 5 examples of what a user might say and hit Enter

Entity filters  Show All  Entities View 

Utterance Labeled intent ?

what is the latest news ? GetNews 0.97  ...

Smart Home \_ □ ×

Home LUIS Entity Linking Bing Search Administration

**Input text**

**Results**

Result message: STT completed with status: RecognitionSuccess

Retrieved the following results:  
Read me the latest Sports News.

Calling LUIS with the top result

Status: Succeeded  
Summary: Top intent is GetNews with score 0,9797508. Found 1 entities.

Action: GetNews  
Action triggered: True