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## ARTICLE

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# Build Travel Agent Application Using LUIS API In Microsoft Cognitive Services - Part One

By **Abdul Rasheed Feroz Khan** on Sep 24, 2016

In this article, you will learn how to build travel agent application using LUIS API in Microsoft Cognitive Services.

## Introduction

This article will help you build a travel agent app in Language Understanding Intelligent Service (LUIS) to book flight tickets and get the weather report of a location. I have made this article into two splits in order to make the readers understand about creating the intents and entities clearly and then to jump on bing entities and seeding the system with labels, etc.

## Pre – requisites

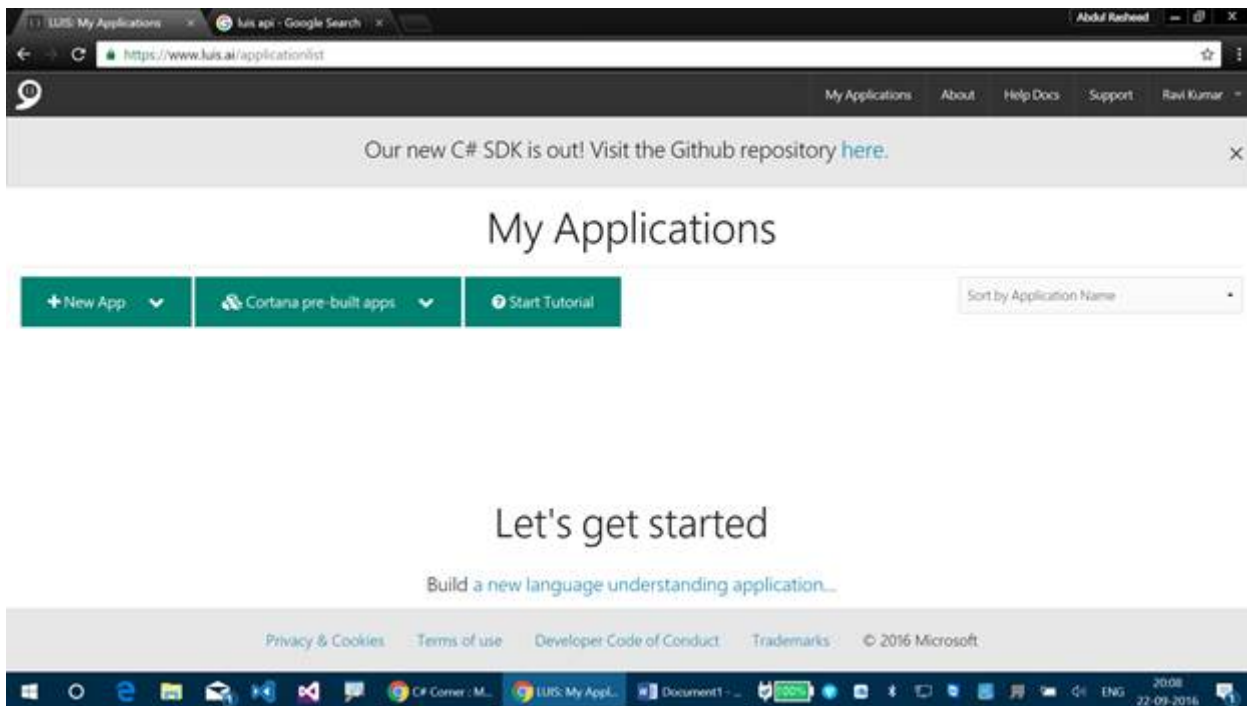
1. An updated Google Chrome or Internet Explorer Web Browser.
2. Microsoft Account (Outlook/Hotmail).

**Note** - Go through the below link to get some knowledge about Microsoft Bot Framework,

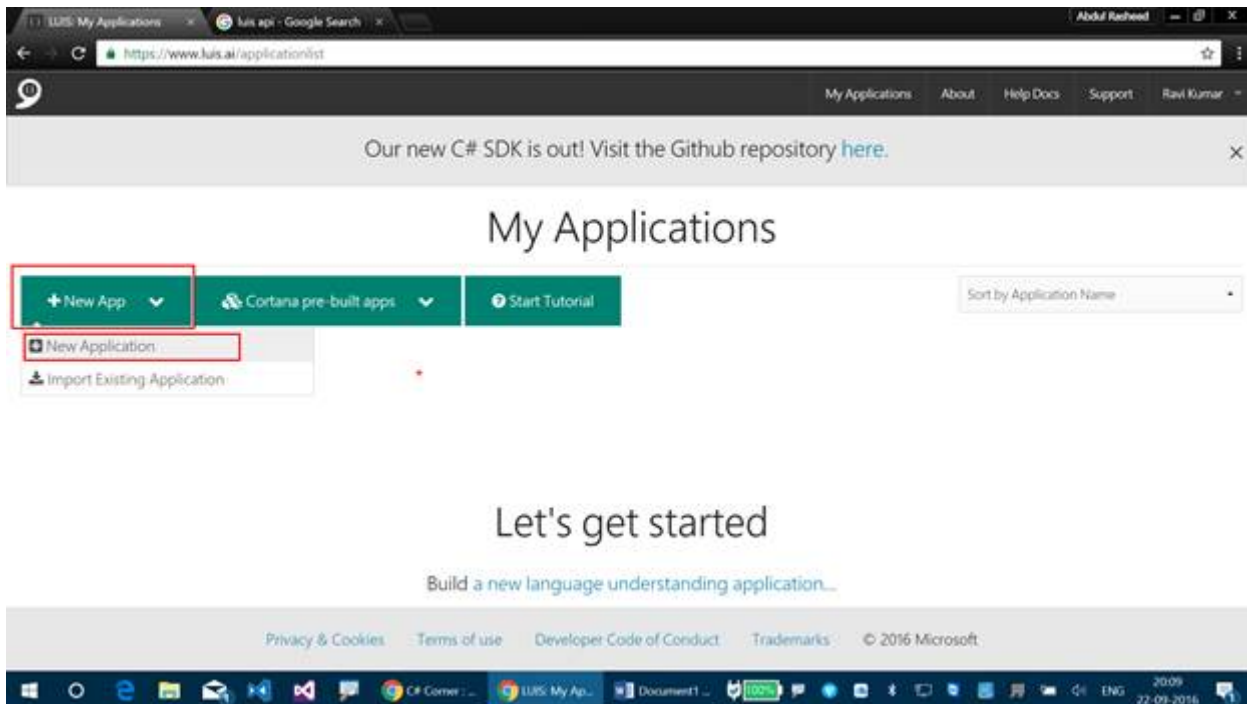
- [Kickstart To Microsoft Bot And Build Your First Bot Application On Local Host](#)
- [Run Your Bot Application In Bot Framework Channel Emulator](#)
- [Publishing Your Bot Application to Azure](#)
- [Registering Your Bot Application And Testing Your Connection At Bot Framework](#)
- [Using Microsoft Cognitive Services With LUIS API](#)

Follow the below steps now,

**Step 1** - Login to LUIS API web page from your web browser – [www.luis.ai](http://www.luis.ai)



**Step 2** - Click on New App - New Application.



**Step 3** - Enter the Application name as "TravelAgent" and Select Application Scenario as "Bot", Application Domain(s) as "Booking & Reference", Application Culture as "English" followed by "Add App" button.

The screenshot shows the LUIS application list page in a web browser. The URL is <https://www.luis.ai/applicationlist>. The page has a dark header with the LUIS logo and navigation links. The main content area is a light gray. A white modal form is open in the center, titled "Enter application name". The form contains the following fields and options:

- Enter application name:** A text input field with "TravelAgent" entered.
- Enter application usage scenario:** A dropdown menu with "Bot" selected.
- Choose application domain(s):** A grid of checkboxes for various domains. The "Booking &" checkbox is checked. Other domains include Business, Comics, Reference, Education, Finance, Communication, Entertainment, Health &, Gaming, Media &, Medical, Fitness, Automation, Video, News &, Music &, Navigation, Magazines, Personalization, Audio, & Maps, Real Estate, Shopping, Social, Productivity, Scheduler, Telecom, Network, Tools, Transportation, Translation, Travel &, Weather, and Local.

The Windows taskbar at the bottom shows the date as 2011 22-09-2016.

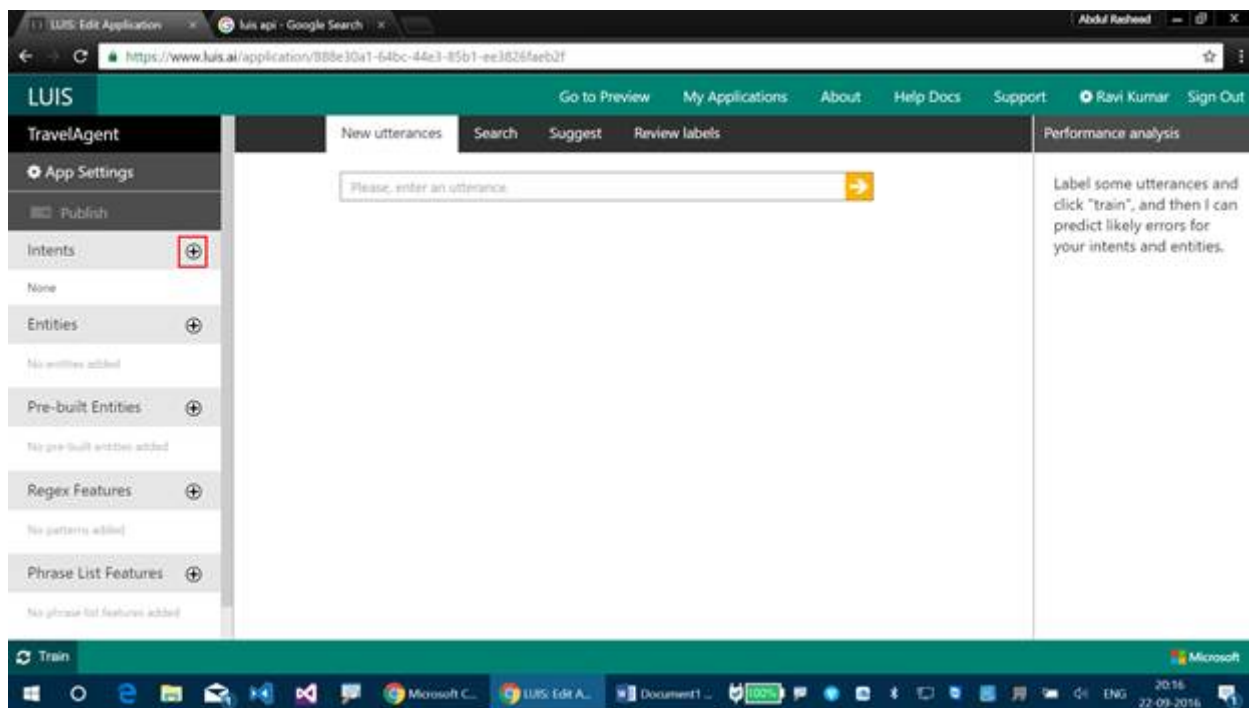
This screenshot shows the same LUIS application list page, but the modal form is scrolled down to show the bottom section. The "Add App" button is now visible at the bottom right of the form.

- Enter application description (optional):** A text input field with "Application description (optional) ..." entered.
- Choose Application Culture:** A dropdown menu with "English" selected.
- Add App:** A green button at the bottom right of the form.

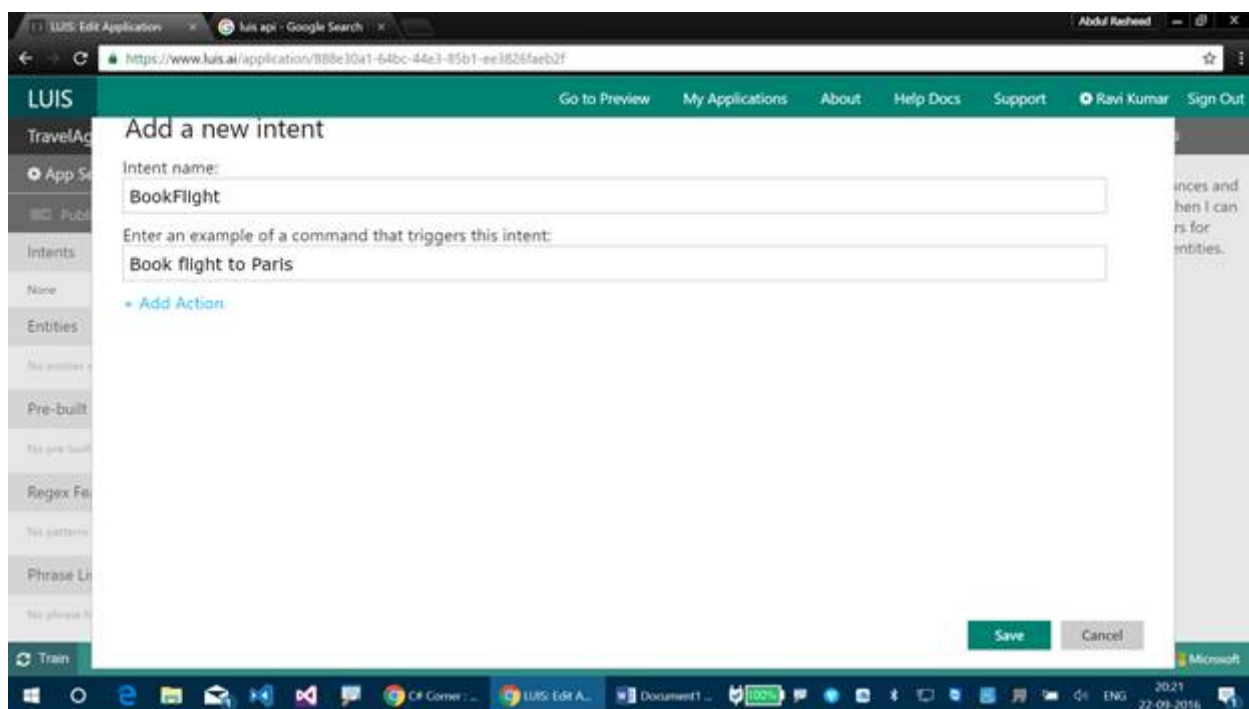
The Windows taskbar at the bottom shows the date as 2012 22-09-2016.

**Step 4** - Click on the "+" button near Intents and add Intent over here.

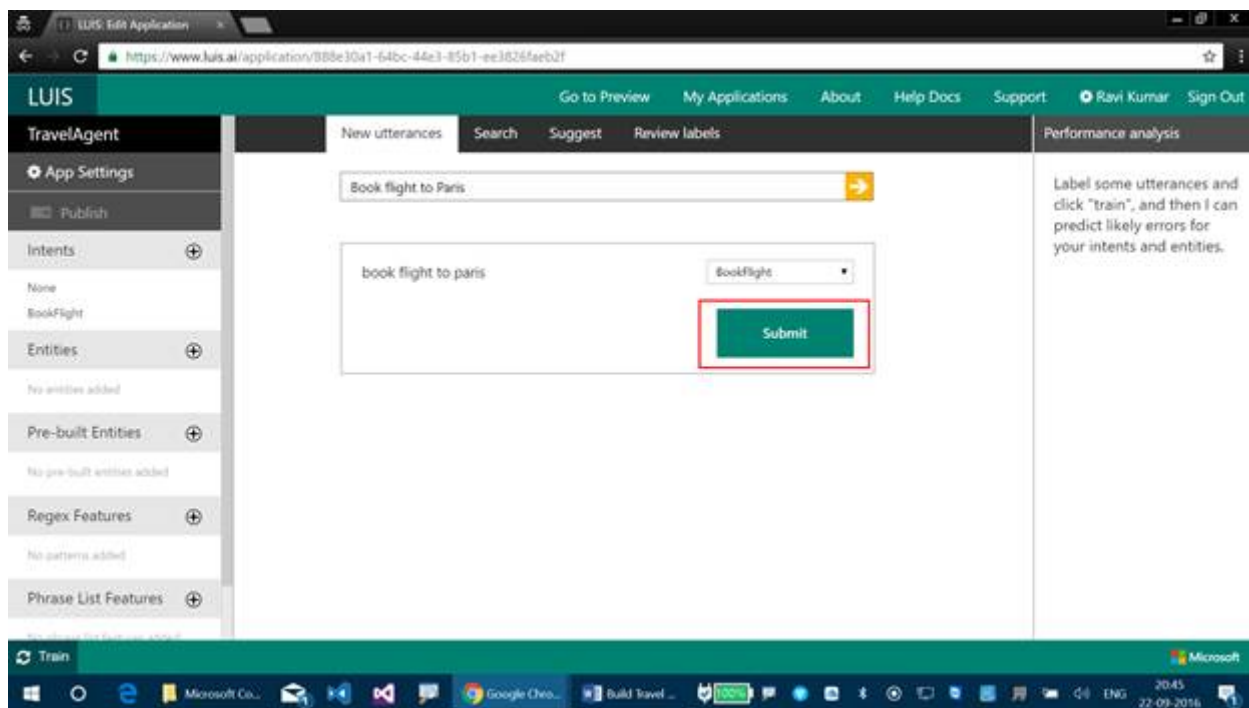
(Surf my previous articles to understand what is intent and utterance)



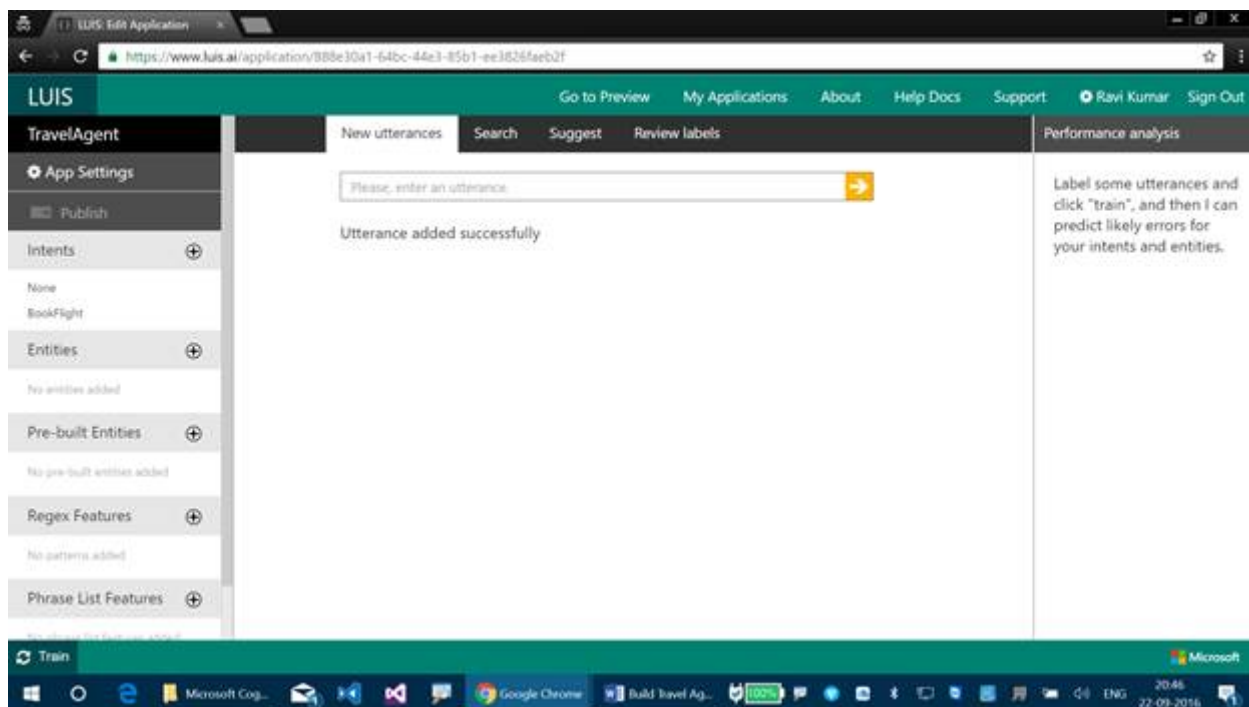
Enter the Intent name and an example of a command that triggers this intent followed by Save button.



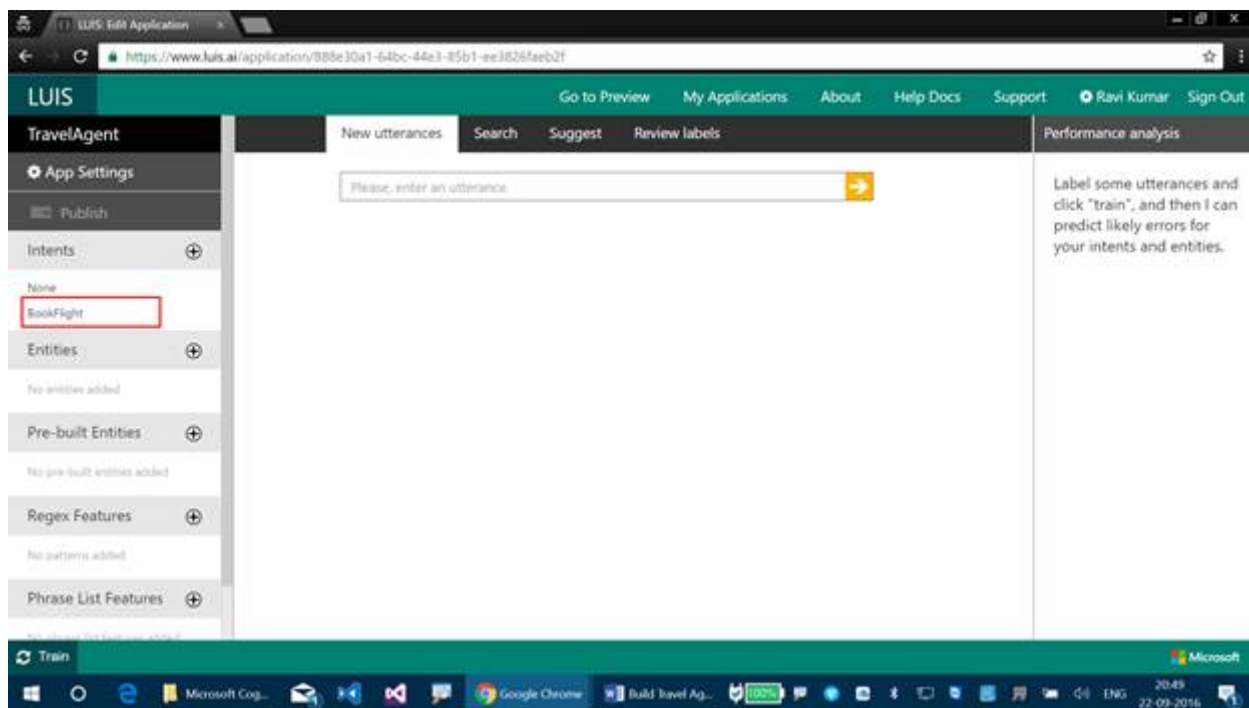
**Step 5** - Click on "Submit" over here.



Now your utterance will be added successfully.

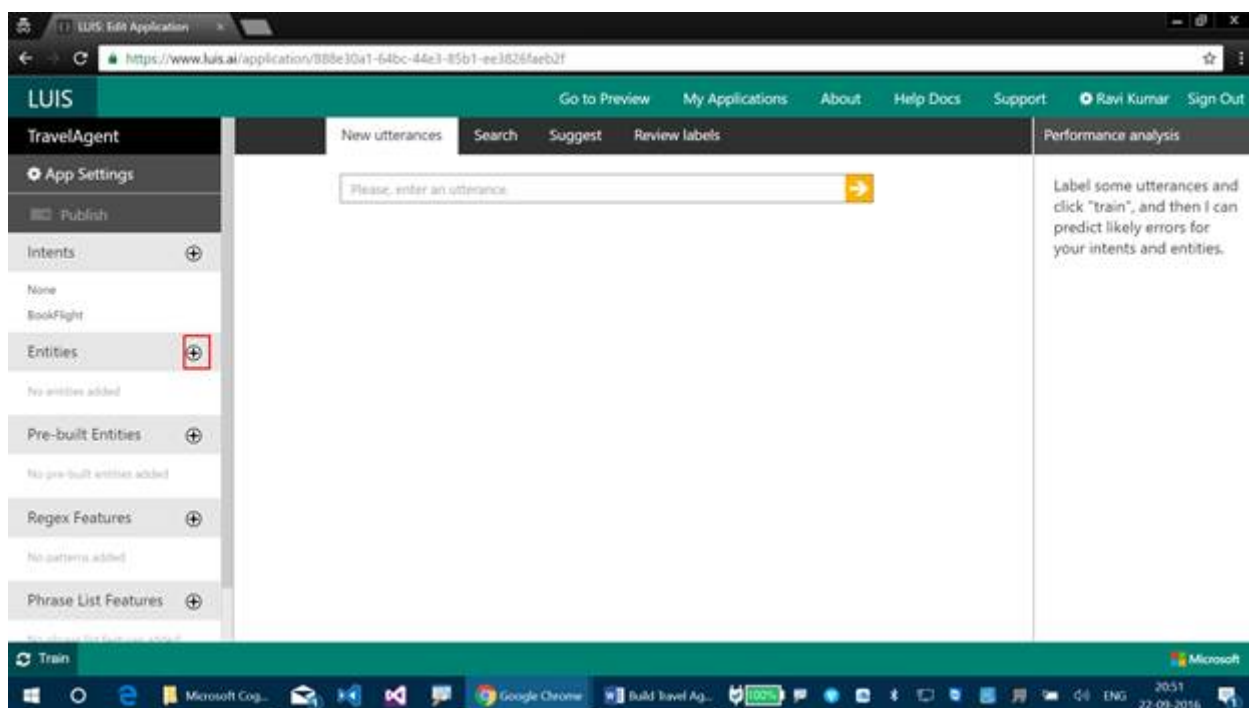


Here at the left corner you can find the intent has been added.



**Step 6** - Next let's work on adding the hierarchical and child entities,

Click on the “+” button near Entities.



Add new entity name as “Location”

## Add a new Entity

☐ Include children

Save

Cancel


Now, click on the check box of Include Children - Hierarchical - Entity Children “+” button if ToLocation as one children entity and FromLocation as second children entity followed by a click on Save button.

## Add a new Entity


Location


☒ Include children

- ☒ Hierarchical
- ☐ Composite

Entity Children 

Children can not be edited or deleted once added.

ToLocation

FromLocation

Save

Cancel

Follow my next article which will be a continuation of this one where we will be working with Bing entities and labeling, etc.

Thank you for using C# Corner