



Traform Bot

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Abstract:

The project “Traform Bot” is a web service that interacts with users in a conversational format. Users start conversations with this bot from the channel that have configured with bot to work with Skype. Traform bot is the fastest, easiest way to plan travel. It offers the travel search, from commercial flights, and charter flights to hotels and vacation rentals. It helps and save time and money by comparing top travel sites to show the perfect flight or hotel at the cheapest price. The unique display makes it easy to visually compare results to choose the best option. Traform bot can design conversations to be freeform, natural language interactions or more guided ones where we provide the user choices or actions. The conversation can utilize simple text strings or something more complex such as rich cards that contain text, images, and action buttons.

Keywords:Microsoft Bot Framework, Web server, Artificial intelligence, Web Service , API.ai, Node.js.

Introduction:

A bot is an application that performs an automated task over the internet. Traform Bot isa web service that interacts with the users in a conversational format over internet. Traform bot can communicate conversationally with text and cards. Basically it is sophisticated weaving of artificial intelligence techniques with complex conversation state tracking and integration to existing business services.

Traform Bot is a platform where travellers can find all the information about their destination country at one place. Share your home country and destination and it will help you with every information needed by giving you the best flights, hotels, and general travel advice based on your specific requirements, such as price, vacation, best time to fly etc.

SYSTEM DESIGN :

Architectural Diagram

Architectural design shows the relationships and dependencies between the major elements of any software system. Architectural design gives the overall view of that software system.

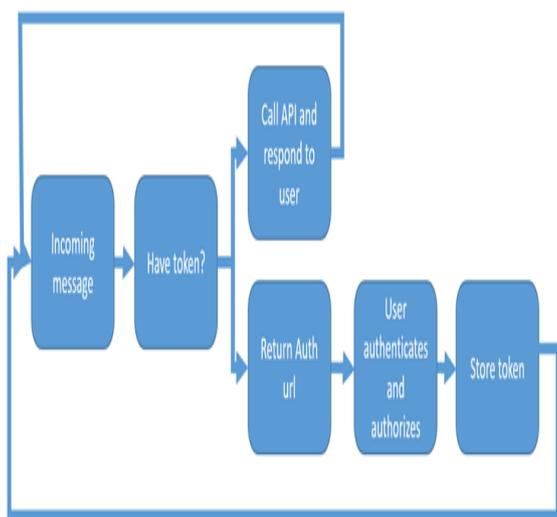


Figure 1: Architectural Design for access token

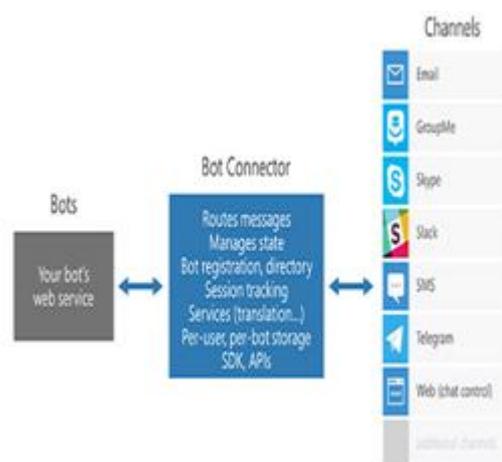


Figure 2: System Architectural Design

Above figure is the architectural design of the proposed system. Bot is a web service providers which is connected to different channels using Microsoft bot connector.

Implementation :

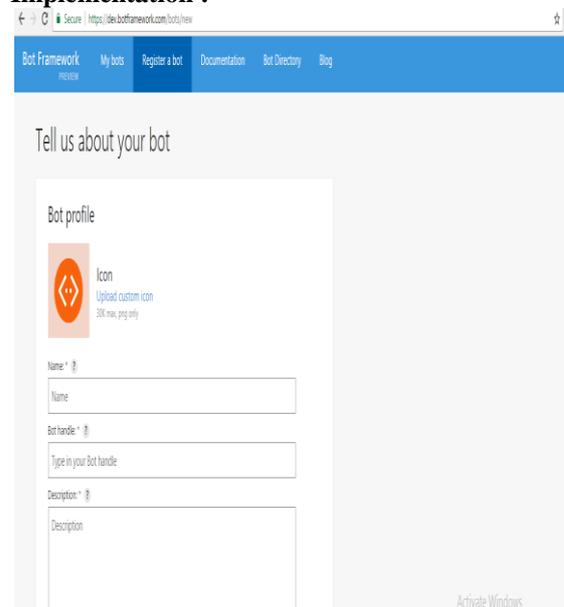


Figure 3: Registering the bot

This window tells us how to create a bot in Microsoft Bot Framework. To build a working bot first we need to register the bot with Microsoft Bot Framework, enter name, bot handle, description in the bot profile and provide messaging endpoint in configuration section in the, Microsoft will then generate app ID and app Secret bot will be created.

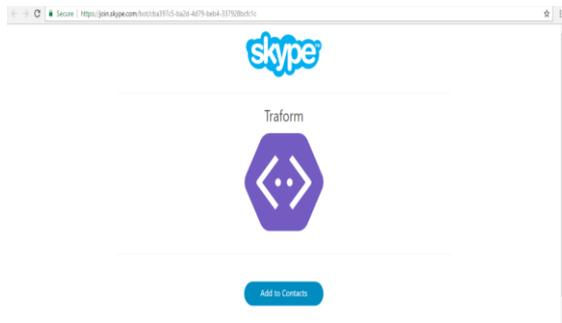


Figure 4: Add bot to skype

Once the bot is created successfully it can be tested by clicking the test button if the connection is properly set then accepted result is displayed on the window.

Once it is tested bot can be added to skype or any other channel.

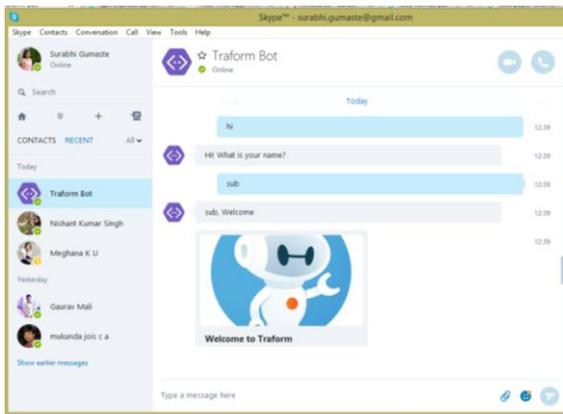


Figure 5 : Bot on Skype

Once the bot is added to skype it is available for the user to chat with the bot and obtain the required information.

Non-functional Requirements :

Non-functional requirements are not user requirements but still they are most important and essential for each and every software applications.

Non-Functional requirements that are implemented in the proposed system are: -

1. Security: -

Security is the essential thing in every software application. Security is achieved in proposed system by assigning unique username and password for each and every user. So, based on the login they are able to access for which they are authorized to access.

2. Accuracy: -

The proposed system is developed with a great accuracy of data.

Reliability: -

The developed application comes with a greater reliability. User can rely and depend on it.

3. Robustness: -

The proposed system is robust. Proposed system performs complex operations behind but it provides easy and a simple interface.

4. Portability: -

The proposed system is designed in such a way that it should be suitable for different platforms.

5. Availability: -

The application should be easily available for the user to download and use and have the benefits of the application.

6. Accessibility: -

The proposed system can be easily accessible by every registered user with the skype or the one who have access to the system.

Conclusion:

Traform bot is powered by artificial intelligence which collects traveller's data, analyse it, observe travel behaviour and patterns and produce personalised deals for travellers.

It handles multiple tasks like booking flights, hotels, managing our schedule according to our requirements and make traveller to enjoy the journey in a much faster and simple way.

This bot is user friendly and it is anticipated the activities of confirmation regarding booking flights or hotels will be easily accessed by administrator.

A well-designed and properly integrated Traform bot allows the most updated information to be shared among various business functions, there by resulting in huge cost savings and increased efficiency.

In order to increase the chance of user acceptance, bots must be take over and be involved in all stages of the implementation process.

Traform bot will simplifies the tasks and reduces the human work.

References:

- <https://docs.botframework.com/en-us/skype/getting-started/#navtitle>
- https://www.tutorialspoint.com/restful/restful_introduction.html
- <https://console.developers.google.com/apis/library?project=traform-160910>
- <https://console.api.ai/api-client/#/agent/14d59a86-0907-447e-95be-46ccd2748382/intents>
- <https://nodejs.org/en/>
- <https://ngrok.com/>