



مسابقة الإمارات للتكنولوجيا والابتكار
EMIRATES TECHNOLOGY & INNOVATION COMPETITION



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Technical Description

AI Applications Showcase



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1. Introduction

A chatbot is a computer program that conducts a conversation via auditory or textual methods. During this contest, you are required to design a chatbot around the given theme below. The chatbot will be required to hold a conversation with the target audience and will be judged on its ability to complete a conversation correctly with the judges.

2. Theme

Theme Title: AI demonstrates the values of the year of Zayed



During the year of Zayed, UAE is celebrating the life and values of its founder Sheikh Zayed. Those values include wisdom, respect, sustainability, and human development. Utilizing the power of AI, chatbots can fulfill the values represented by the year of Zayed. Chatbots have access to huge amount of information that can help residents of the UAE make better wiser and more informed decisions. One of the benefits of AI is that it can be taught to recognize tone and understand personality to show respect to its intended audience. Chatbots are extremely capable of handling massive numbers of calls. This means that they are much more efficient than large call centers leading to resource saving such as electricity, water, and land. Being available 24 hours a day and 7 days a week, chatbots can answer questions of any time they are needed. Even professionals continue to learn with AI, one great example is an AI helping doctors diagnose cancer.

Participants are encouraged to build chatbots that exemplify the values mentioned above representing the year of Zayed

3. Contest Environment

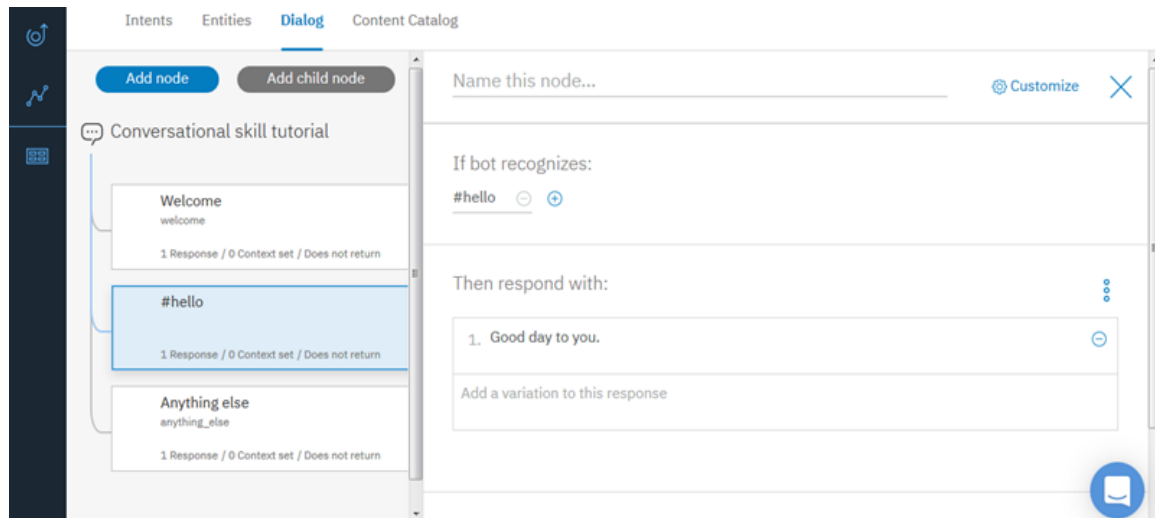
3.1. Browsers

The following list specifies the minimum required browser software for IBM Cloud:

- Chrome: latest version for your operating system
- Firefox: latest regular and ESR versions for your operating system, [see Mozilla Firefox Extended Support Release](#) for more details
- Internet Explorer: version 11
- Edge: latest version for Windows
- Safari: latest version for Mac



3.2. IBM Watson



The contestant will be using IBM Bluemix cloud service to use IBM Watson capabilities to build the chatbot. The service can be reached using the following URL:
<https://console.bluemix.net/developer/watson/dashboard>

4. Competency Specification

The contest will run for three days, each with two sessions and a lunch break:

- 9:00 to 1 pm - First session
- 1:00 to 2:00 - Lunch
- 2:00 to 5 pm - Second session

There will be a training session provided before the contest to introduce participants to the use of the IBM Cloud tools.

At the end of the third day, you will provide a copy of your IBM Watson Conversation instance and **demonstrate your chatbot** to the judging panel by allowing it to answer questions from the judges.

Chatbots will be ranked based on the set of criteria defined by the judging panel. In this competition, the main focus is on the **chatbot's ability to hold a conversation and answer core questions from the provided domain** with bonus points being given **for handling harder questions in the domain**.

5. RULES & REGULATIONS

5.1. Judging Criteria

The submitted project will be evaluated based on:

- **FAQ:** how well does the chatbot handle straightforward FAQ questions? Your Watson should be able to answer lots of simple questions in the domain provided.
- **Conversation:** can the chatbot maintain a coherent conversation to achieve a desired answer? It should be able to collect context when a question is ambiguous and then ask follow-up questions.
- **Context:** what context is important during the conversation? Keep track of the salient information so Watson doesn't have to constantly re-ask for clarification

5.2. General Rules

- Any team attempting to communicate with another team, to tamper with the machines, or disrupt the contest environment in any way will be disqualified.
- The participants shall agree to allow the organisers to publish their names as well as photos and videos in which they appear.
- No visitors will be allowed in the competition area.
- The main language of the contest is English and all the provided systems and materials are in English.
- Each team should register one IBM Cloud account that will host their final chatbot and provide the ID information for that chatbot
- The use of Internet is allowed.
- Teams are ranked according to points earned during chatbot conversations and judged based on the highest score
- If a chatbot fails to respond to any question during the conversation, the judge will offer a more direct follow-up question. If the chatbot fails on the second question, the judge will restart the chatbot and ask the original question. If the chatbot is still not answering, finally the judge will restart and ask the more direct question. If the chatbot cannot answer at any of these 4



attempts, not points will be earned. Each failed attempt carries a penalty of points.

- Contestants requiring any kind of help should remain seated while being assisted by a contest staff.