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Movie Recommendation Chatbot

**Group ID: 14**

**Assignment 4**

**Submitted By:**

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**Overview**

# In today's digital era, the realm of entertainment has transformed, offering a vast array of captivating content. Among the diverse and popular forms of entertainment, movies have emerged as a compelling and immersive medium, captivating audience of all ages with their unique storytelling, intriguing characters, and cinematic worlds. With an ever-expanding library of movie titles across various genres, it can be overwhelming for enthusiasts to discover the perfect film that resonates with their individual tastes and preferences. To address this challenge and create a personalized movie-watching experience, we introduce the concept of a "Movie Recommender Chatbot."

# The Movie Recommender Chatbot is an innovative and interactive solution designed to assist movie enthusiasts in effortlessly discovering their ideal film selections. Powered by advanced artificial intelligence techniques, natural language processing, and recommendation algorithms, the chatbot serves as a knowledgeable companion, understanding user preferences and offering tailored movie suggestions. Its user-friendly interface provides a seamless and engaging experience, enabling users to explore the cinematic world with ease.

# Step 1: prepare and choose the topic for the chatbot:

We aim to build an advanced and user-centric chatbot, our chatbot recommends a movie in cinema.

# Step 2: create the ontology using protégé:

* **Create cinema-popcorn-reservation-tickets classes:**
* **Create a movie category class and sub-classes:**

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# Create the instances of action:

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* **Create the instances of animation:**

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# Create the instances of drama:

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* **Create the instances of funny:**

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# Create the instances of Romantic:

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* **Relations between the classes:**

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# Ontology Diagram:

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**Step 3: Prepare the intent:**

1. Popcorn
2. Reservation
3. Tickets
4. movie\_categories
5. party\_time

# Step 4: Design the test cases questions:

Popcorn

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reservation

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Tickets

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Movie\_categories

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Party\_time

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# Step 5: Training Questions-Answers using Dialog Flow:

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**Step 6: Verify and Evaluate:**

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# Evaluate to isolate weaknesses:

We did not use a full sentence and long sentences for questions answer use case.

# Conclusion:

# Throughout this assignment, we gained insights into several crucial aspects. We explored the process of constructing a movie ontology to establish a well-structured knowledge representation. Additionally, we delved into the design of a movie recommender chatbot, leveraging dialog flow to facilitate smooth and natural interactions. Moreover, we dived into the creation of movie-related intents and entities, which are essential for effectively training and evaluating the chatbot's performance.

# Chatbot Link:

[CineBot](https://bot.dialogflow.com/f40efa3a-1376-4c9e-8cbc-57acdc9da161)