Introduction to Telegram Bot

Movie Advisor Functionality

The Movie Advisor enables users to:

- **Preview movie plots** (if available in the database)
- **Leave comments** (via /comment) for users to view and respond to
- **Get AI-generated summaries** of stored comments (via /query) using ChatGPT integration
- **ChatGPT Response** for users to enquire information from AI regarding the movie
- **Receive recommendations** (via /recommend) for **five similar movies** based on the queried film

Below are the detailed function descriptions:

/start

- Performs a **wildcard search** for movie names stored in MongoDB.
- Returns a list of matching movies; upon selection, displays available functions.
- **ChatGPT Response:**
    - **System Role:** Acts as a **movie advisor**, offering insightful tips and recommendations.
    - **Prompt:** Verifies if the movie exists in the AI training database:
        - If **found**, retrieves relevant information.
        - If **not found**, responds with: *"No movie information available yet."*

    - **Token Control:**
        - Input trimmed to **1,000 characters**.
        - Output limited to **100 tokens** to optimize costs.

/comment

- Allows users to **add comments** for movies that exist in the database.

/query

- Checks for existing comments on the movie:
    - If **no comments**, returns: *"No comments yet."*
    - If **comments exist**, fetches the **latest 100 comments** and uses ChatGPT to generate a **concise review summary** based solely on stored feedback.

/recommend

- Leverages ChatGPT to **suggest five similar movies** based on the user's input.

<text message>

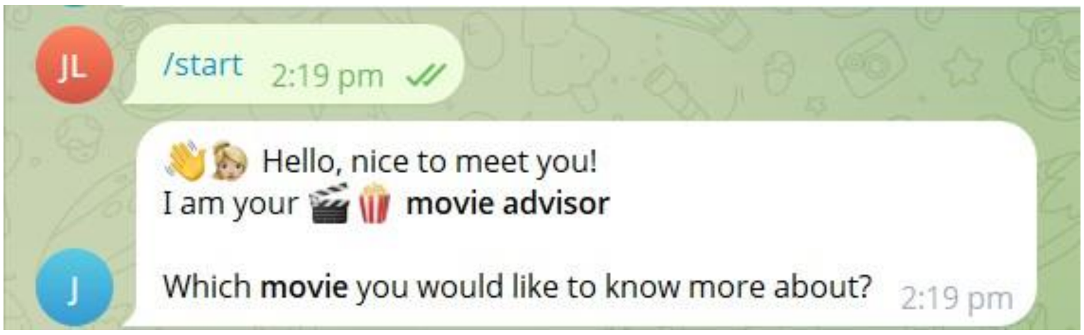
After entering a valid movie name, connect to ChatGPT for further inquiries (e.g., actors, plot details).

/end

- Closes the current conversation.
- Users can initiate a new query using /start for another movie.

movie_bot workflow demonstration:

The movie advisor must be triggered with conversion, by /start command



JL

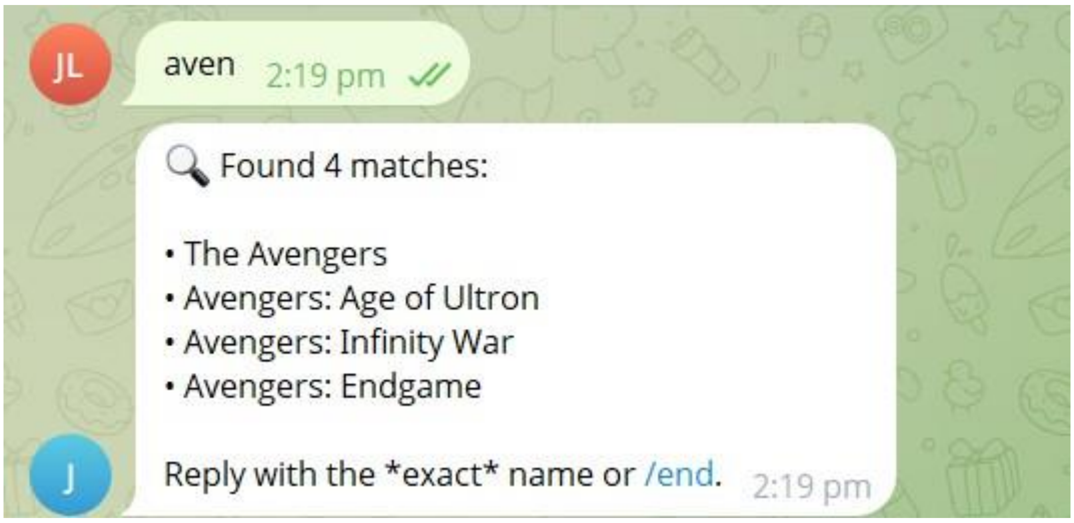
/start 2:19 pm

👋👩 Hello, nice to meet you!
I am your 🎬🍿 **movie advisor**

Which **movie** you would like to know more about? 2:19 pm

J

Wildcard search of movie name is allowed, returning the list of movie name that stored in MongoDB



JL

aven 2:19 pm

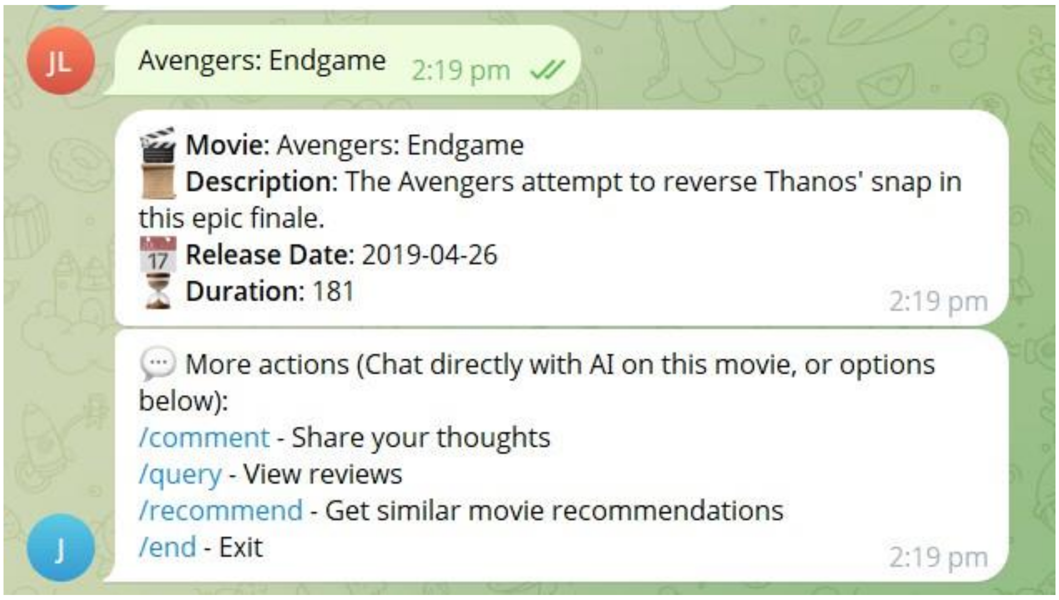
🔍 Found 4 matches:

• The Avengers
• Avengers: Age of Ultron
• Avengers: Infinity War
• Avengers: Endgame

Reply with the *exact* name or /end. 2:19 pm

J

Once the correct name is inputted, a list of functions is prompted



JL

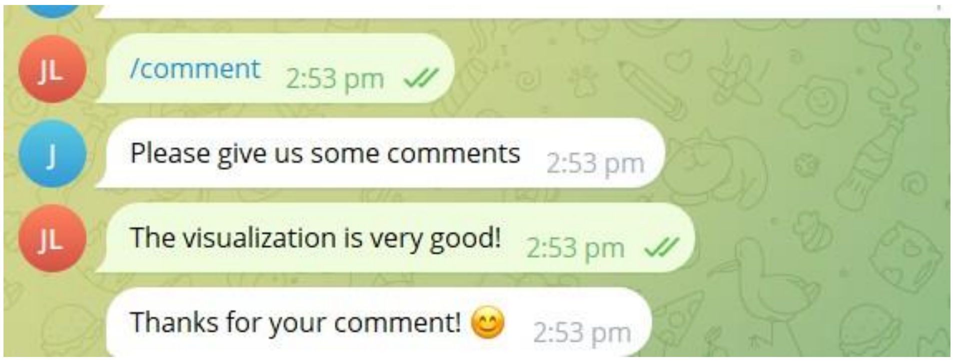
Avengers: Endgame 2:19 pm

🎬 **Movie**: Avengers: Endgame
📜 **Description**: The Avengers attempt to reverse Thanos' snap in this epic finale.
📅 **Release Date**: 2019-04-26
⏳ **Duration**: 181 2:19 pm

💬 More actions (Chat directly with AI on this movie, or options below):
/comment - Share your thoughts
/query - View reviews
/recommend - Get similar movie recommendations
/end - Exit 2:19 pm

J

/comment: For user to add some comment on the movie



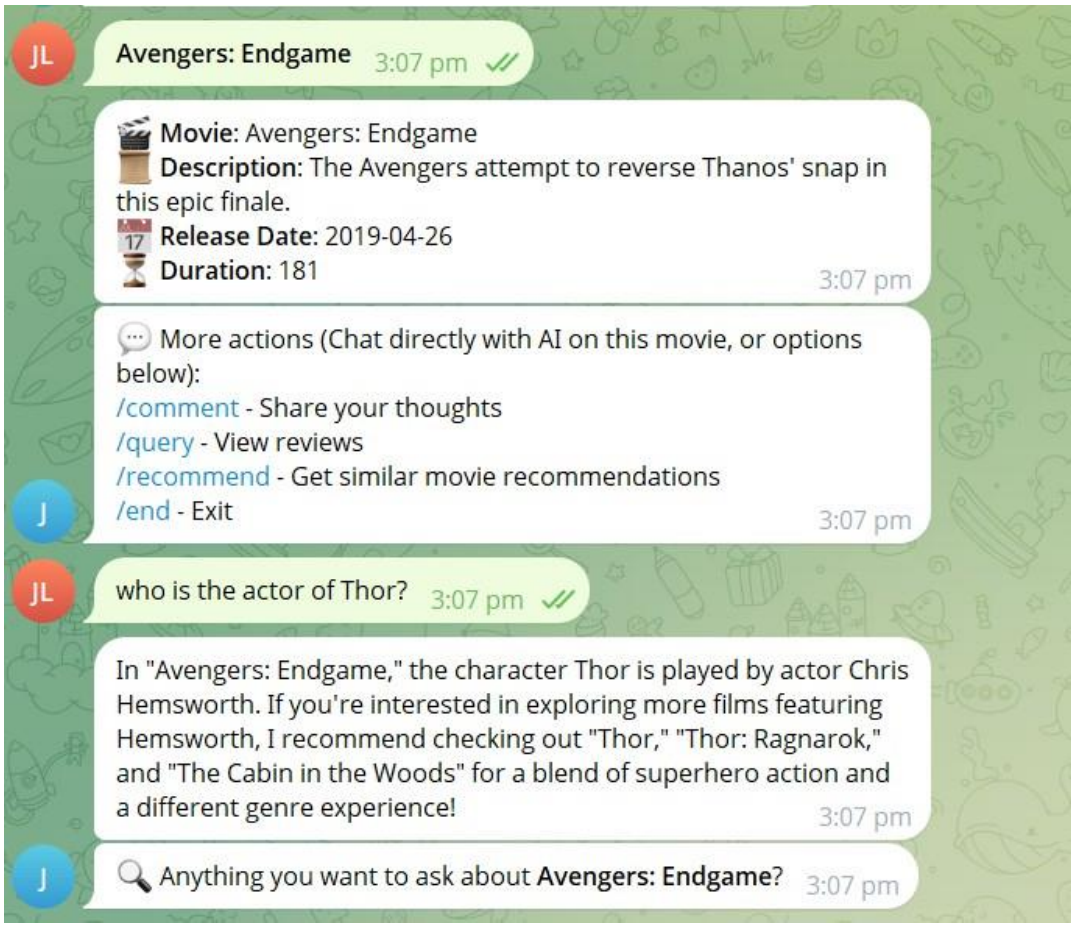
JL: /comment 2:53 pm

J: Please give us some comments 2:53 pm

JL: The visualization is very good! 2:53 pm

J: Thanks for your comment! 😊 2:53 pm

Once a valid movie name is inputted, ChatGPT connection is established for user to enquire anything about that movie, e.g. actor in this sample



JL: Avengers: Endgame 3:07 pm

🎬 **Movie:** Avengers: Endgame
📜 **Description:** The Avengers attempt to reverse Thanos' snap in this epic finale.
📅 **Release Date:** 2019-04-26
⏳ **Duration:** 181 3:07 pm

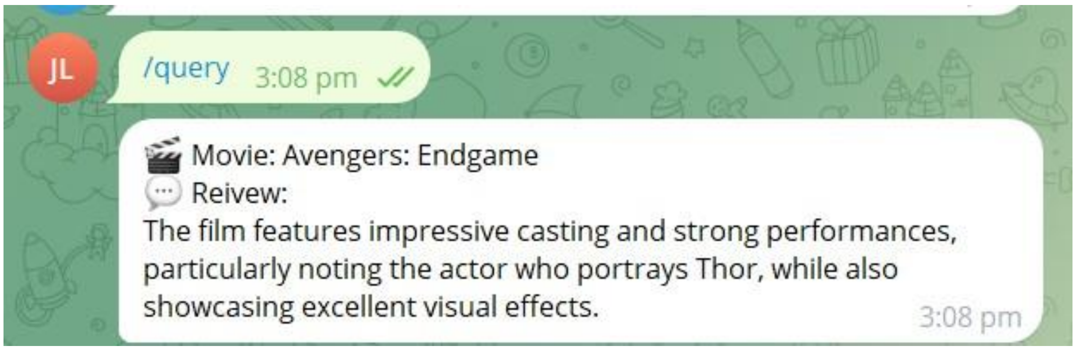
💬 More actions (Chat directly with AI on this movie, or options below):
/comment - Share your thoughts
/query - View reviews
/recommend - Get similar movie recommendations
/end - Exit 3:07 pm

JL: who is the actor of Thor? 3:07 pm

J: In "Avengers: Endgame," the character Thor is played by actor Chris Hemsworth. If you're interested in exploring more films featuring Hemsworth, I recommend checking out "Thor," "Thor: Ragnarok," and "The Cabin in the Woods" for a blend of superhero action and a different genre experience! 3:07 pm

J: 🔍 Anything you want to ask about **Avengers: Endgame?** 3:07 pm

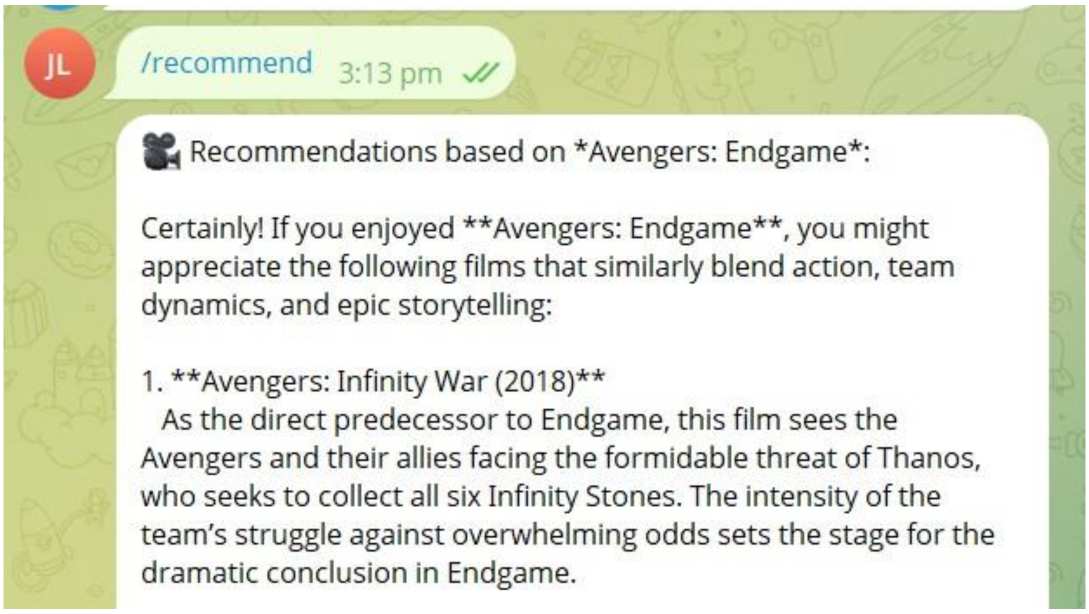
/query: For user to view comment summary that analysed by ChatGPT in database "comment"



JL: /query 3:08 pm

🎬 Movie: Avengers: Endgame
💬 Reivew:
The film features impressive casting and strong performances, particularly noting the actor who portrays Thor, while also showcasing excellent visual effects. 3:08 pm

/recommend: For ChatGPT to suggest user on other similar movie like the inputted movie



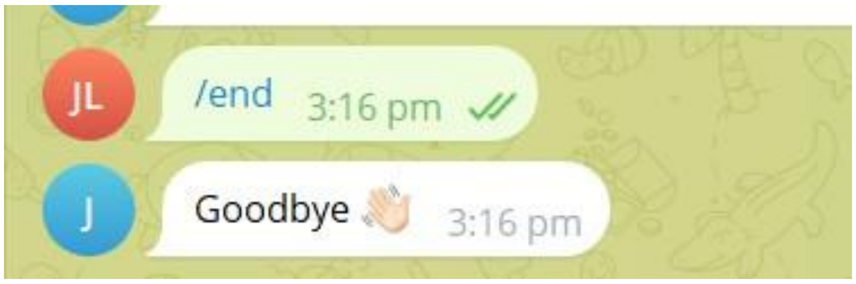
JL /recommend 3:13 pm

🎥 Recommendations based on *Avengers: Endgame*:

Certainly! If you enjoyed **Avengers: Endgame**, you might appreciate the following films that similarly blend action, team dynamics, and epic storytelling:

1. **Avengers: Infinity War (2018)**
  As the direct predecessor to Endgame, this film sees the Avengers and their allies facing the formidable threat of Thanos, who seeks to collect all six Infinity Stones. The intensity of the team's struggle against overwhelming odds sets the stage for the dramatic conclusion in Endgame.

/end: Close the conversation channel.

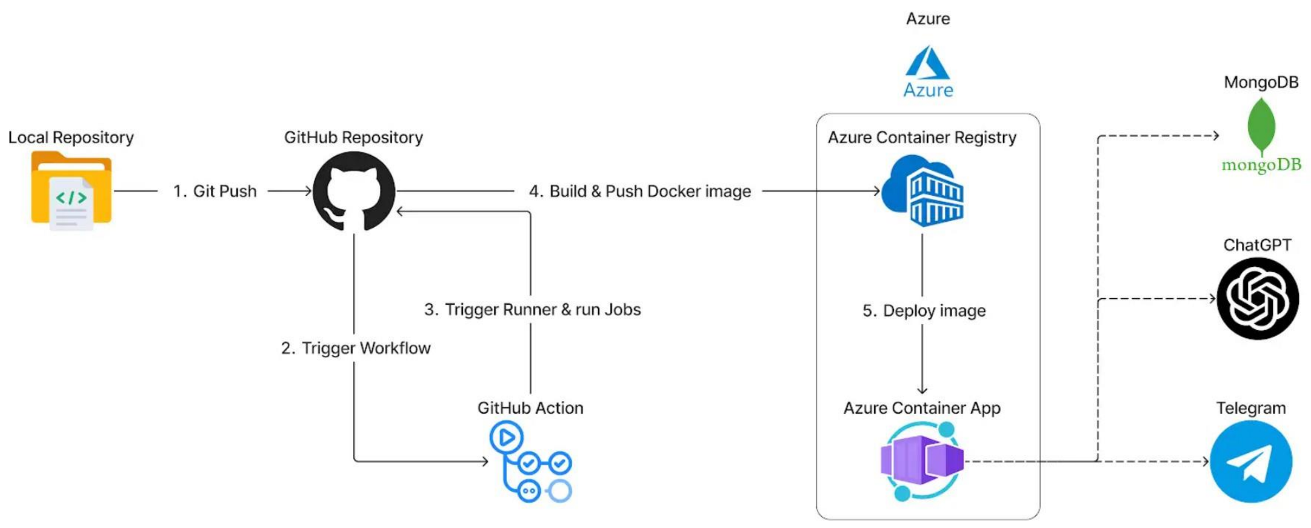


JL /end 3:16 pm

J Goodbye 👋 3:16 pm

After the conversation ends, the user can start another conversation using /start to search for the information of another movie.

Application Infrastructure



The program in the local repository is pushed to GitHub, which triggers action in git workflow. It builds a Docker image and pushes it to a Azure Container Registry then deploy the image to Azure Container App. The Azure Container App links MongoDB, ChatGPT, and Telegram via APIs.