IBM GOVERNMENT INTERNSHIP 2025 PROJECT-1

TRAVEL PLANNER AGENT

Al-based Trip Planning Chatbot on IBM Cloud

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- Technology Used: IBM Cloud, Watson Assistant





OUTLINE

A conversational chatbot built using IBM Watson Assistant that interacts with users to plan a trip by asking key questions like destination, budget, dates, and preferences, and provides a custom travel itinerary.

- Problem Statement
- Proposed System/Solution
- System Development Approach
- Algorithm & Deployment
- Result (Output Images)
- Conclusion
- Future Scope
- References



PROBLEM STATEMENT

Example: Travelers often find it difficult and time-consuming to

plan trips — from choosing destinations to managing budgets.

The need for a quick and intelligent virtual assistant that can

suggest a trip plan is growing.

This project aims to solve that by building an Al agent that can

interactively plan travel itineraries through simple

conversations.



PROPOSED SOLUTION

We have developed a chatbot called Travel Planner Agent using IBM

Watson Assistant that: -

- Takes user input for destination, budget, travel date, and preferences.
- Generates a customized travel itinerary.
- Allows users to restart the planning process.
- Uses conditional logic and context variables.
- Provides an intuitive, user-friendly experience.



SYSTEM APPROACH (TECHNOLOGY USED)

<u>Components</u>	Tools / Tech. Used
Chatbot Framework	IBM Watson Assistant
NLP + Logic Flow	Watson Dialog Skills
Deployment	IBM Cloud (Lite Plan)
Language Model	IBM Granite / Prebuilt Intents
Variables Handling	Context variables + logic jumps
Platform	Web interface (Watson Preview)



ALGORITHM & DEPLOYMENT

Algorithm:

- Capture user input using free text or buttons
- Store input into context variables (e.g., \$destination, \$travel_date)
- Use conditional jumps to guide the conversation
- Generate a static or templated travel itinerary
- Ask user if they want to restart
- If Yes → clear variables & restart

Deployment:

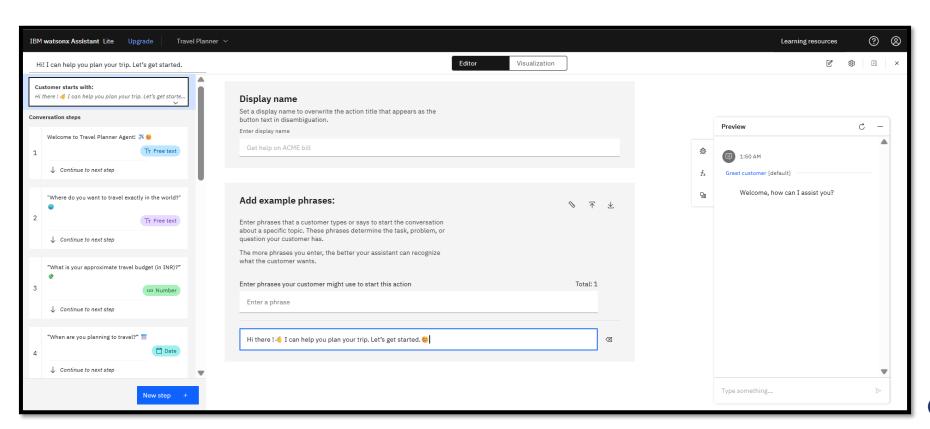
- > Hosted on IBM Watson Assistant
- Chat preview available via IBM Cloud
- Optional: Exported as .json for backup



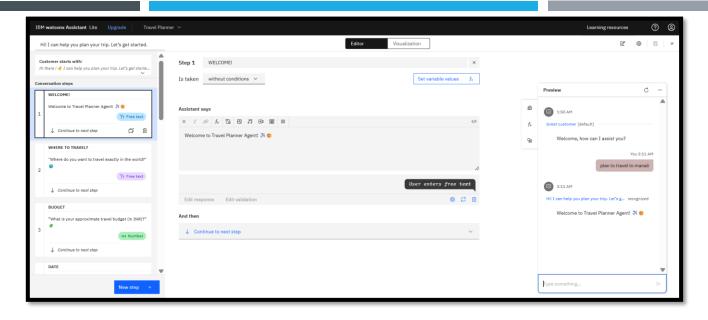
RESULTS

"Bot asking user for preferences and returning a personalized itinerary along with their previews."

STEP-1 "Hi there ! 🁋 I can help you plan your trip. Let's get started." 😊

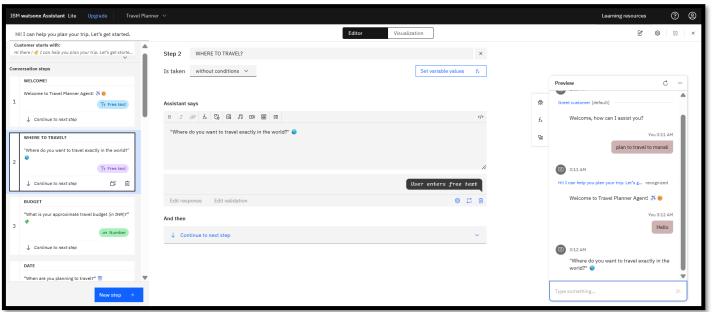






STEP-2 WELCOME

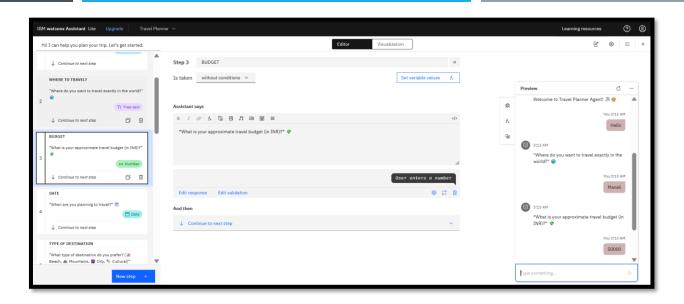
"Welcome to Travel Planner Agent!" 💥 😊



STEP-3

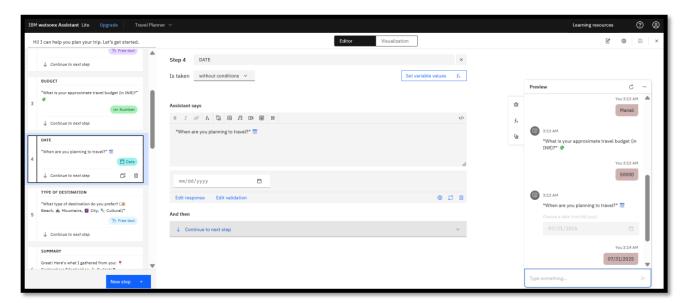
"Where do you want to travel exactly in the world?"





STEP-4 BUDGET

"What is your approx. travel budget (in INR)?" ❖

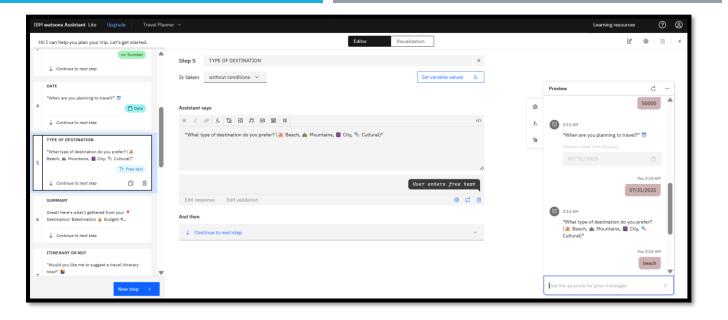


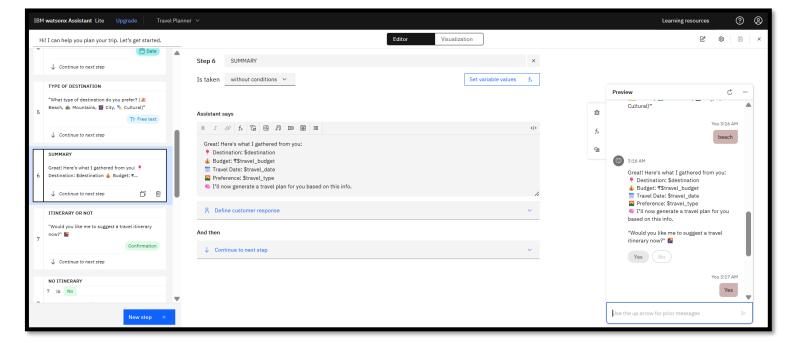
STEP-5 DATE"When are you planning to travel?"



STEP-6 TYPE OF DESTINATION

"What type of destination do you prefer? (≥ Beach, ♠ Mountains, City, ♥ Cultural)"





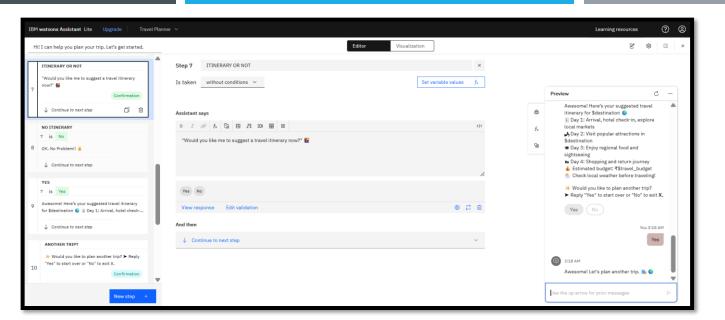
STEP-7 SUMMARY

Great! Here's what I gathered from you:

¶

- Destination: \$destination
- Budget: ₹\$travel_budget iii
- Travel Date: \$travel_date
- Preference: \$travel_type I'll now generate a travel plan for you based on this info.





STEP-8 ITINERARY?

"Would you like me to suggest a travel itinerary now?"
NO- OK. No Problem!!

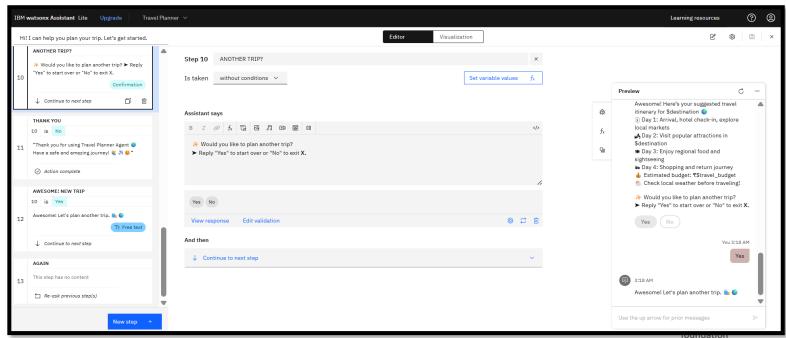


YES- Awesome! Here's your suggested travel itinerary for \$destination •

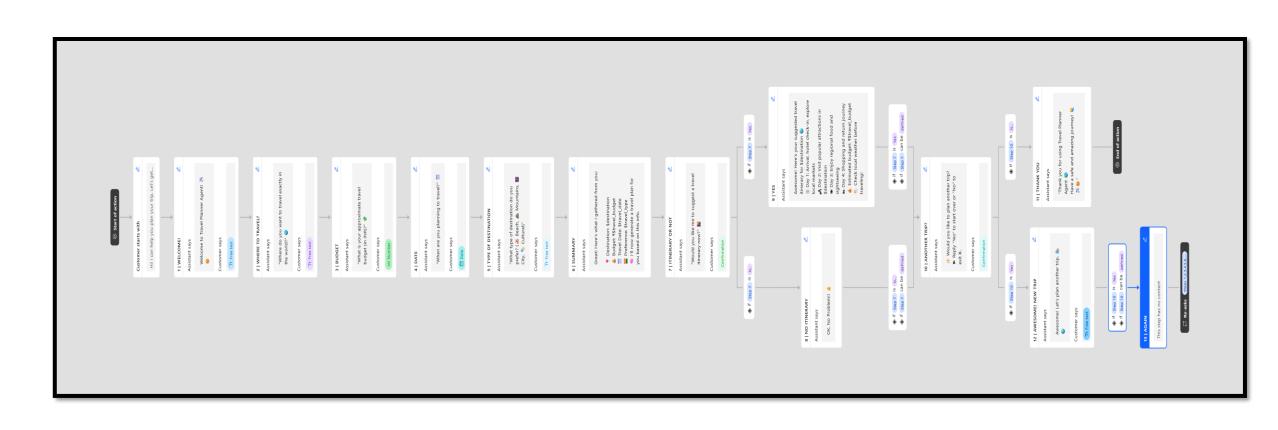
STEP-9 ANOTHER TRIP?

Would you like to plan another trip? ➤ Reply "Yes" to start over or "No" to exit X.

NO- "Thank you for using Travel Planner Agent ■ Have a safe and amazing journey! ■ ↑ ★ □ "
YES- Awesome! Let's plan another trip. ■ ■



PROJECT FLOWCHART





CONCLUSION

The Travel Planner Agent successfully demonstrates the capability of IBM Watson to build intelligent and user-friendly conversational interfaces. It simplifies trip planning by making it interactive, personalized, and fun. The project effectively combines Al and user experience design.



GITHUB LINK

https://github.com/Sakshamsaxena007/Travel-Planner-Agent.git



FUTURE SCOPE

In the future, the system can be enhanced by:

- Connecting live APIs (Weather, Hotels, Flights)
- > Providing destination recommendations
- > Including multi-destination planning
- > Integrating payment gateways for bookings
- > Expanding language support for global users



REFERENCES

- > IBM Watson Assistant Documentation
- > IBM Cloud Portal https://cloud.ibm.com
- Internship Guidelines Document (SB4Academia 2025)
- > Icons from Emojipedia
- > Your own code + dialog setup



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Thank You

