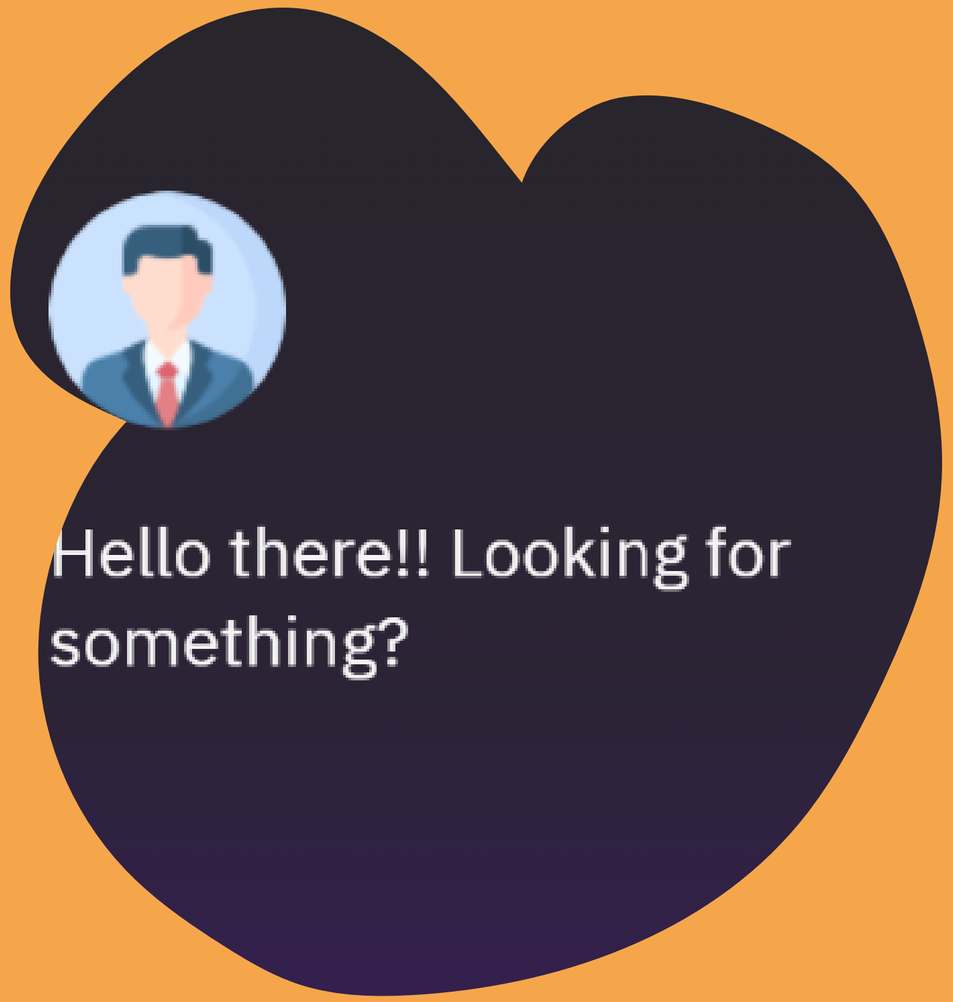
BOOK RECOMMENDATION CHATBOT

USING IBM WATSON ASSISTANT

PROJECT OVERVIEW:

The Book Recommendation Chatbot is an intelligent virtual assistant designed using IBM Watson Assistant to help users discover books based on their preferred genre or author. The chatbot provides an interactive and user-friendly experience, making book exploration fun and personalized.

It enable natural conversation through AI-powered dialogue and encourage continuous engagement by suggesting similar or related books.
It support for multiple user queries in a single conversation (context handling and digression).



TOOLS & SERVICES USED

01

IBM CLOUD

IBM WATSON ASSISTANT FOR CREATING INTENTS, ENTITIES, AND DIALOG FLOWS

02

VS CODE

COMPILING HTML AND CSS CODES FOR WEBSITE BUILDING

03

CHAT GPT

TO GET LIST OF FAMOUS BOOKS OF VARIOUS AUTHORS AND GENRES

04

MICROSOFT EXCEL

CSV FILES TO STORE TRAINING EXAMPLES FOR DIFFERENT INTENTS (E.G., GREETING, THANK_YOU, BOOK_RECOMMENDATION)

BOOK-O-GENIE

START AND END

THE CHATBOT GREETS THE USER AND THEN ASKS WHAT USER WANTS. AT END, IT THANKS THE USER FOR USING THE SERVICE.

BOOK RECOMMEND

THE CHATBOT RECOMMENDS BOOKS ON MAINLY TWO CRITERIA - GENRE AND AUTHOR

GENRE

I HAVE INCLUDED MAIN 9 GENRES WITH 5 BOOK EXAMPLES EACH.

IT HAS A CHILD NODE THAT GIVES 5 MORE EXAMPLES OF THAT PARTICULAR GENRE

HOW? BY SETTING A CONTEXT VARIABLE $LAST_GENRE FOR EVERY GENRE

AUTHOR

I HAVE INCLUDED NAMES OF SOME FAMOUS AUTHORS INCLUDING INDIAN AND THEIR FAMOUS BOOKS

CHIT-CHAT

TO MAKE THE BOT INTERACTIVE AND INTERESTING I HAVE ADDED A SECTION FOR USER TO HAVE A LITTLE CASSUAL CONVO WITH IT

JOKE AND BENEFIT OF READING

I HAVE INCLUDED THREE DIFFERENT BOOK-THEMED JOKES AND ALSO THREE DIFFERENT BENEFITS OF READING IF USER WANTS TO KNOW

FAVOURITE BOOK

I HAVE INCLUDED FOUR FAVOURITE BOOKS OF THE CHATBOT AND ASKED THE USER IF HE/SHE WANTS TO READ SOMETHING SIMILAR

TO ADD A PERSONAL TOUCH

KEY SCREENSHOTS

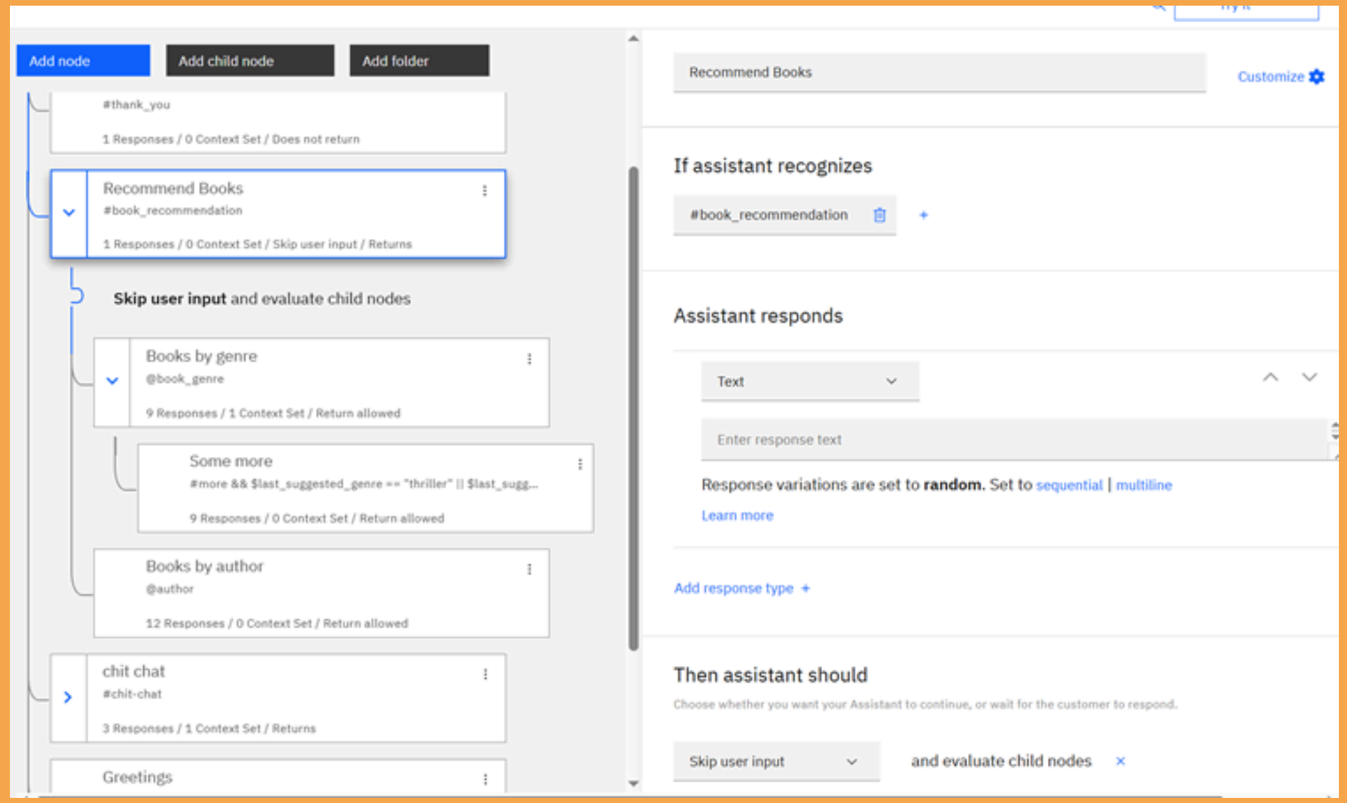
ALL THE INTENTS

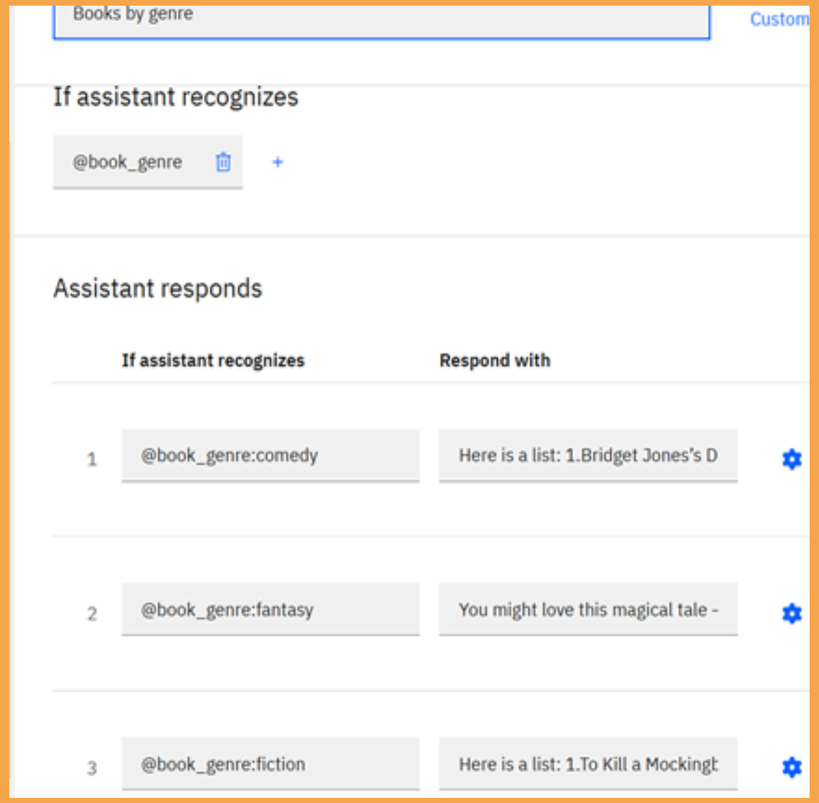
Intents (6) ↑	Description	Modified ↑↓
#book_recommendation		a day ago
#chit-chat		6 hours ago
#greetings		2 days ago
#more		6 hours ago
#thank_you		an hour ago
#YES		5 hours ago

ALL THE ENTITIES

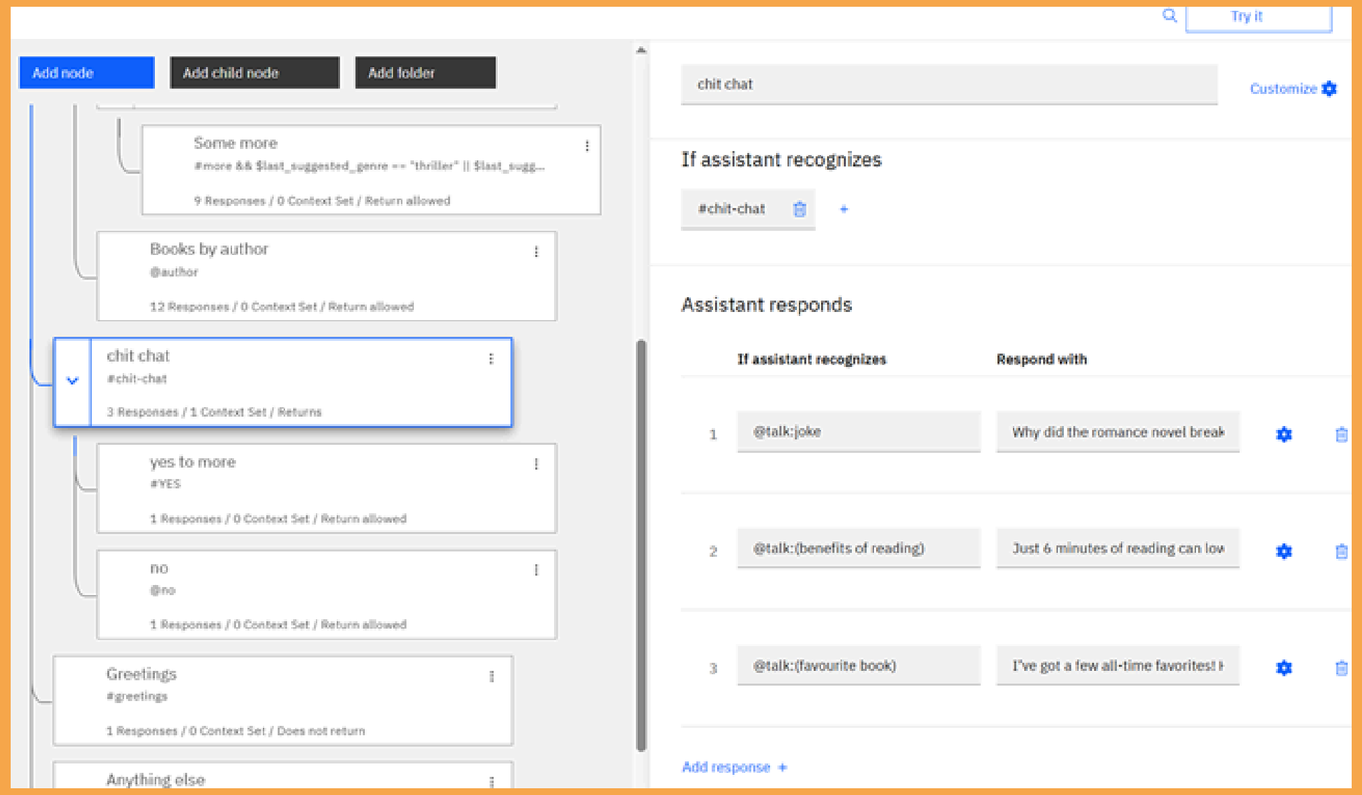
Entity (5) ↑	Values
@author	Agatha Christie, Ana Huang, Colleen Hoover, George Orwell, J.K. Rowling, Kiran Desai, Oscar Wilde, R.K. Naray.
@book_genre	memoir, mystery, romantic, comedy, fiction, horror, kid, thriller, fantasy
@no	Maybe later, No, Not now
@talk	benefits of reading, favourite book, joke
@yes	Yup, yes, suggest more like this

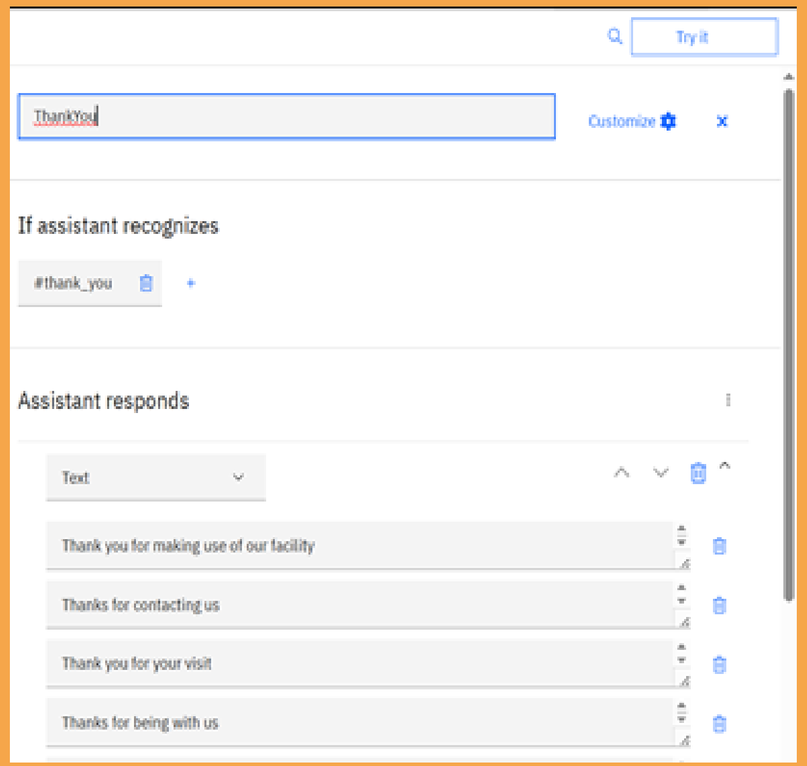
DIALOG AREA





- Main node of recommending books
- Child nodes on the basis of two categories - genre and author
- A further child node to suggest some more books of a genre

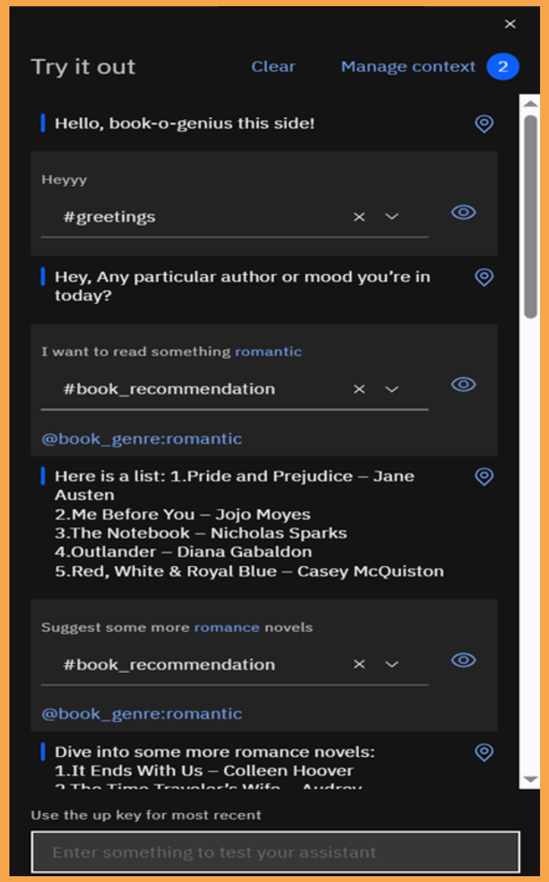


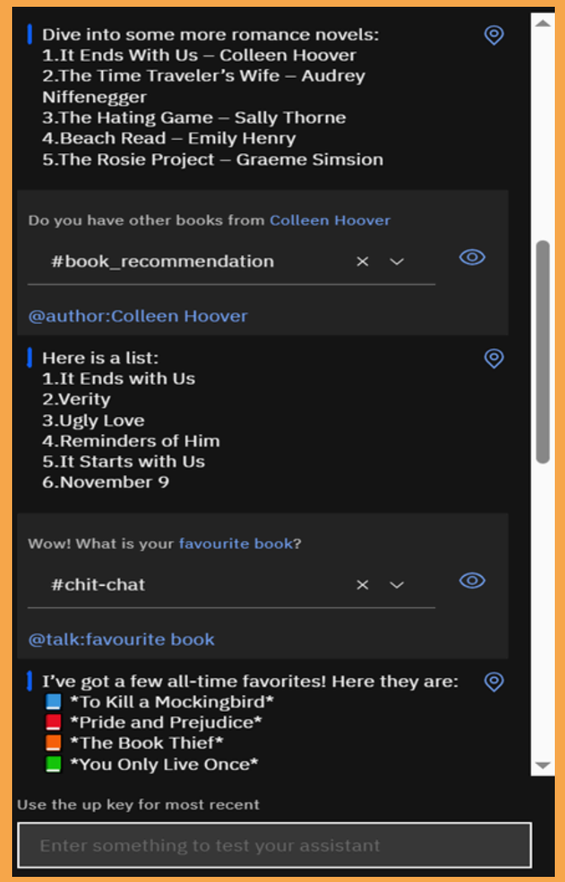


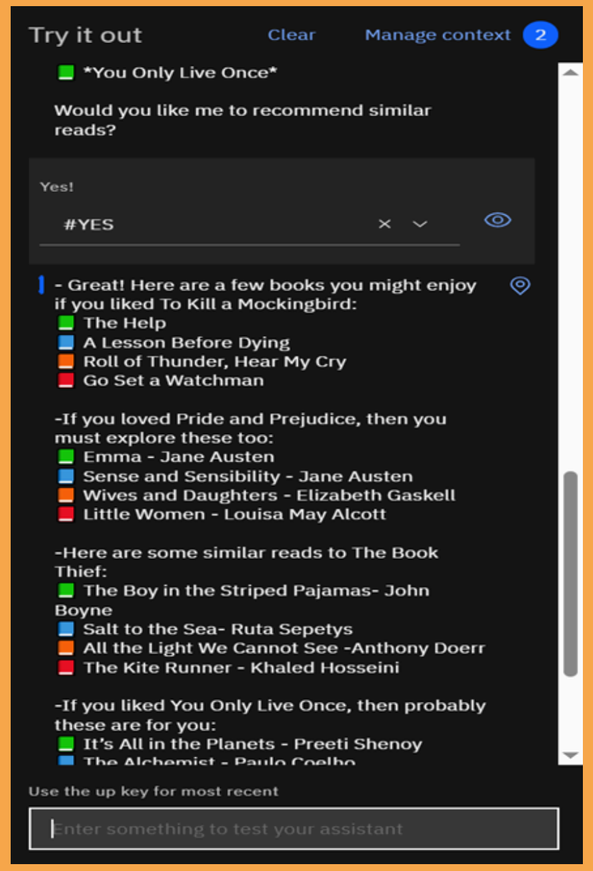
- A chit-chat node to make the chat bot interactive.
- It contains 3 things - a book-themed joke, benefit of reading and chatbot's favourite books.
- There is also a node that suggests similar books to that of chat bot's favourite ones.

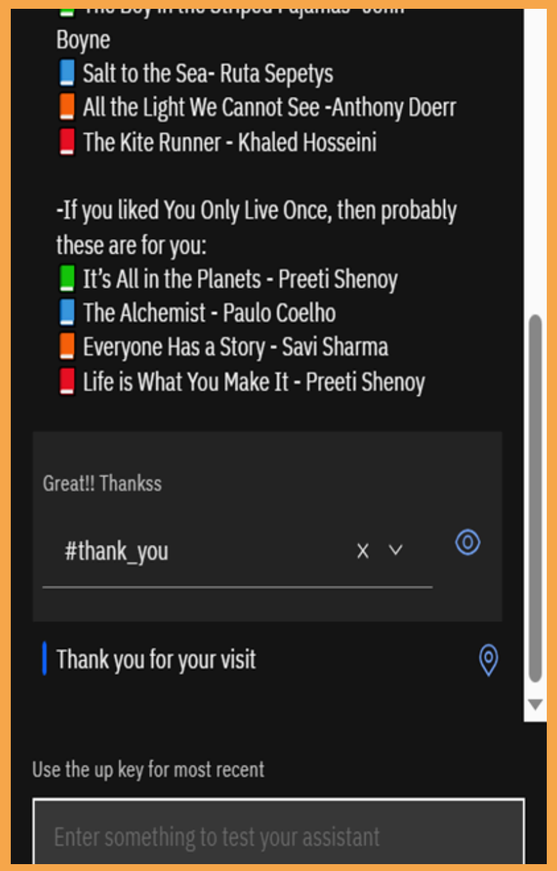
Thank you dialog to thank the user for availing our facility.

OUTPUTS


Try it out
Clear
Manage context 2
Hello, book-o-genius this side!
Heyyy
#greetings
Hey, Any particular author or mood you're in today?
I want to read something romantic
#book_recommendation
@book_genre:romantic
Here is a list: 1.Pride and Prejudice – Jane Austen
2.Me Before You – Jojo Moyes
3.The Notebook – Nicholas Sparks
4.Outlander – Diana Gabaldon
5.Red, White & Royal Blue – Casey McQuiston
Suggest some more romance novels
#book_recommendation
@book_genre:romantic
Dive into some more romance novels:
1.It Ends With Us – Colleen Hoover
Use the up key for most recent
Enter something to test your assistant


Dive into some more romance novels:
1.It Ends With Us – Colleen Hoover
2.The Time Traveler's Wife – Audrey Niffenegger
3.The Hating Game – Sally Thorne
4.Beach Read – Emily Henry
5.The Rosie Project – Graeme Simsion
Do you have other books from Colleen Hoover
#book_recommendation
@author:Colleen Hoover
Here is a list:
1.It Ends with Us
2.Verity
3.Ugly Love
4.Reminders of Him
5.It Starts with Us
6.November 9
Wow! What is your favourite book?
#chit-chat
@talk:favourite book
I've got a few all-time favorites! Here they are:
To Kill a Mockingbird
Pride and Prejudice
The Book Thief
You Only Live Once
Use the up key for most recent
Enter something to test your assistant


Try it out
Clear
Manage context 2
You Only Live Once
Would you like me to recommend similar reads?
Yes!
#YES
- Great! Here are a few books you might enjoy if you liked To Kill a Mockingbird:
The Help
A Lesson Before Dying
Roll of Thunder, Hear My Cry
Go Set a Watchman
-If you loved Pride and Prejudice, then you must explore these too:
Emma - Jane Austen
Sense and Sensibility - Jane Austen
Wives and Daughters - Elizabeth Gaskell
Little Women - Louisa May Alcott
-Here are some similar reads to The Book Thief:
The Boy in the Striped Pajamas- John Boyne
Salt to the Sea- Ruta Sepetys
All the Light We Cannot See -Anthony Doerr
The Kite Runner - Khaled Hosseini
-If you liked You Only Live Once, then probably these are for you:
It's All in the Planets - Preeti Shenoy
Use the up key for most recent
Enter something to test your assistant


Boyne
Salt to the Sea- Ruta Sepetys
All the Light We Cannot See -Anthony Doerr
The Kite Runner - Khaled Hosseini
-If you liked You Only Live Once, then probably these are for you:
It's All in the Planets - Preeti Shenoy
The Alchemist - Paulo Coelho
Everyone Has a Story - Savi Sharma
Life is What You Make It - Preeti Shenoy
Great!! Thankss
#thank_you
Thank you for your visit
Use the up key for most recent
Enter something to test your assistant

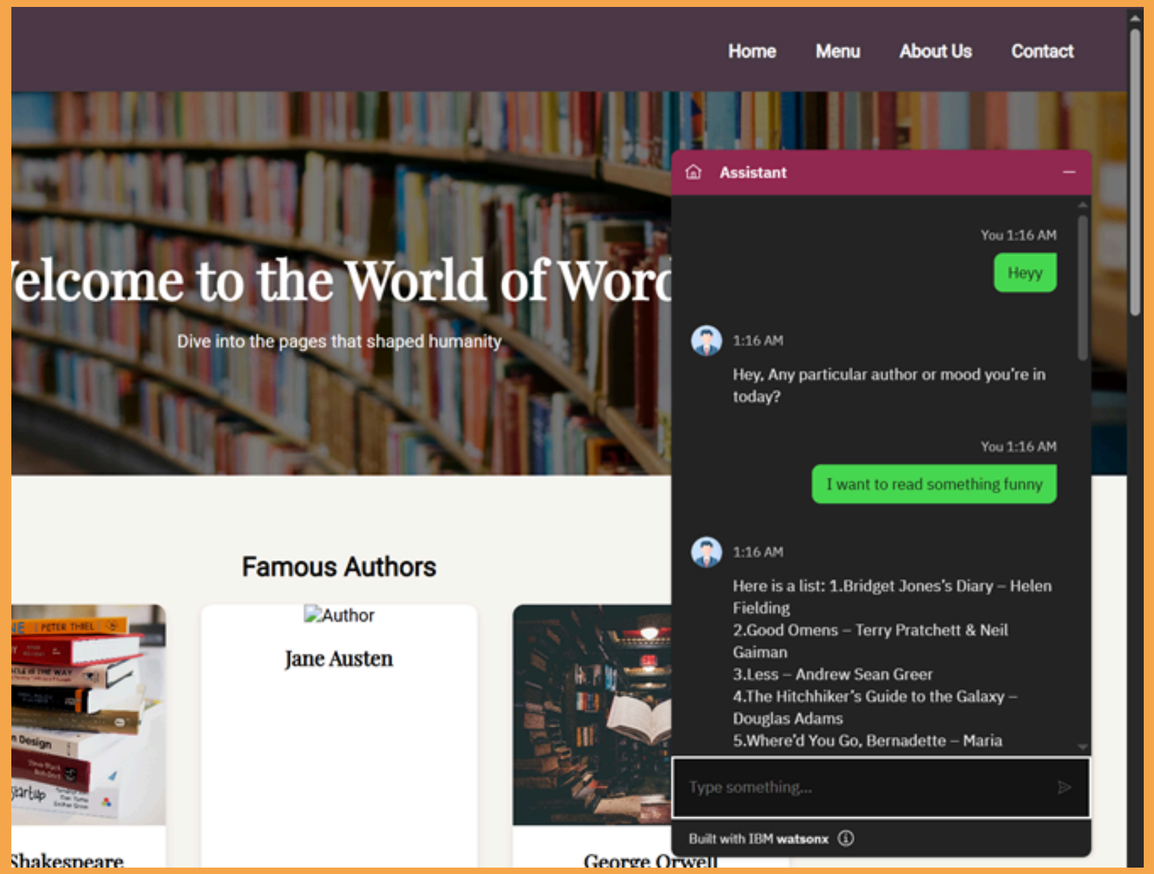
FINAL DEPLOYMENT CODE

index.html ✕ # style.css

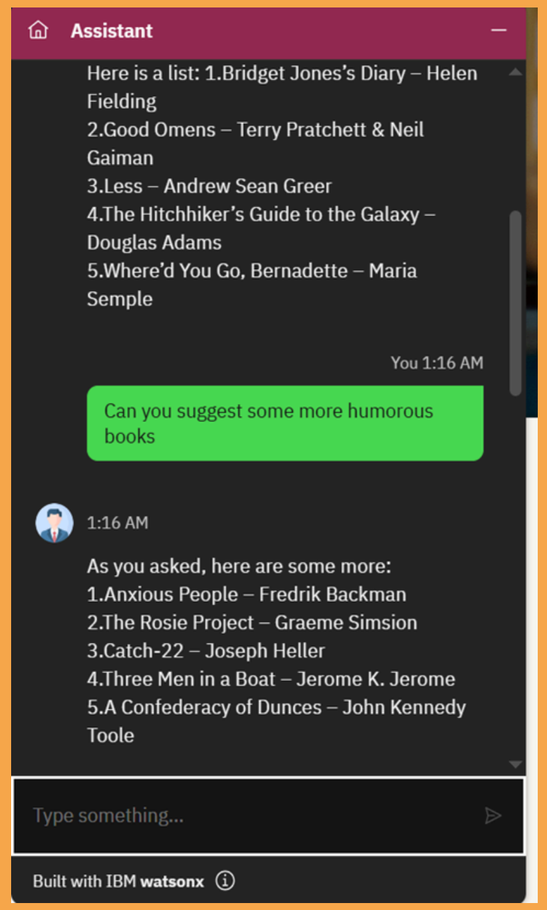
index.html > html > body > script

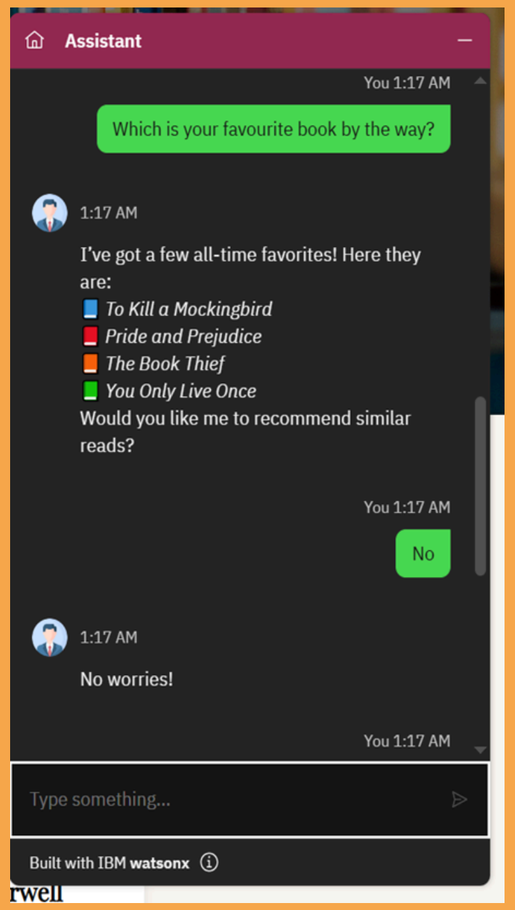
```html
<html lang="en">
<body>

  <!-- Contact Section -->
  <section id="contact">
    <h2>Contact Us</h2>
    <p>
      📍 123 Book Lane, Biblioville, NY 10001<br/>
      ☎ (123) 456-7890<br/>
      📧 contact@literaryhaven.com
    </p>
  </section>

  <footer>
    &copy; 2025 Literary Haven | Designed with love for book lovers
  </footer>
<script>
  window.watsonAssistantChatOptions = {
    integrationID: "23adfbe6-0bce-40ca-ac7a-ce9b5c3e4efb", // The ID of this integration.
    region: "au-syd", // The region your integration is hosted in.
    serviceInstanceID: "133ab9a1-b37c-40b5-b919-254bcb2418ea", // The ID of your service instance.
    onLoad: async (instance) => { await instance.render(); }
  };
  setTimeout(function(){
    const t=document.createElement('script');
    t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChat
    document.head.appendChild(t);
  });
</script>
</body>
</html>
```

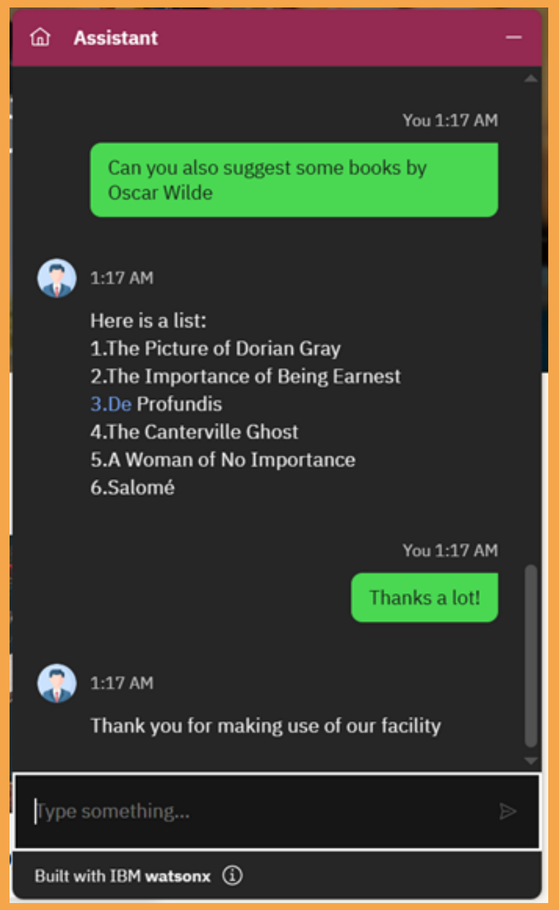
ASSISTANT EMBEDDED IN WEBSITE



FINAL WORKING OF CHAT-BOT ON WEBSITE







IMPACT

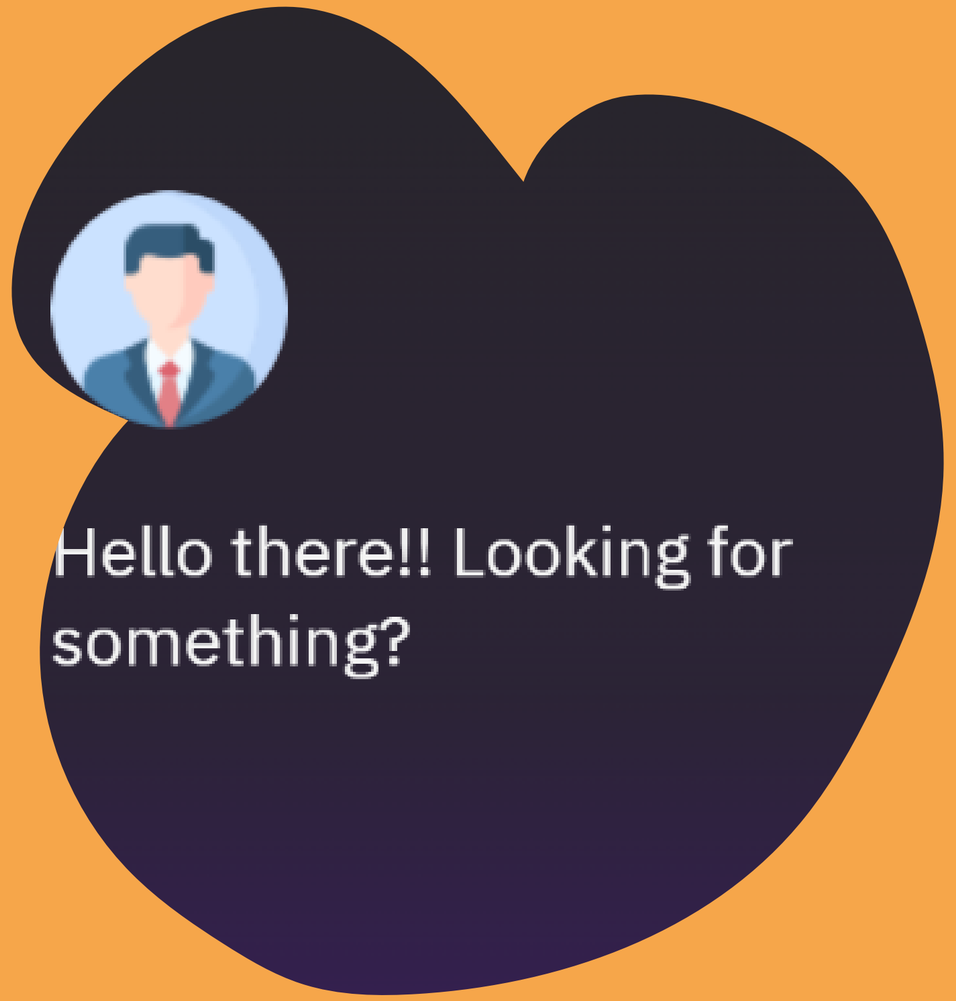
The Book Recommendation Chatbot transforms how users discover books by offering personalized, instant suggestions through natural conversation. It enhances engagement, saves time, and encourages users to explore diverse genres and authors. Accessible 24/7, it promotes a reading culture and serves as a valuable, scalable tool for libraries, educational platforms, and reading apps.

BENEFITS

The Book Recommendation Chatbot offers quick and personalized book suggestions, reducing the time users spend searching. Its conversational interface makes interactions natural and engaging, encouraging users to explore more books. Available 24/7, it ensures continuous support without human assistance and can be easily updated for different audiences, making it a flexible solution for schools, libraries, and digital platforms.

CONCLUSIONS

In conclusion, the Book Recommendation Chatbot is more than just a digital assistant—it’s a friendly guide into the world of stories. By blending the power of AI with the charm of natural conversation, it turns book searching into a delightful journey of discovery. Whether you're a curious reader, a busy student, or a lifelong book lover, this chatbot opens the door to endless adventures, one recommendation at a time. Its versatility and ease of use make it a perfect companion for any platform looking to inspire a love for reading.



THANK YOU VERY MUCH

ANIKA TOMAR

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY