Project Documentation: Chatbot Implementation using Watson Assistant

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Project Objective:

Develop a chatbot to enhance customer support for an e-commerce platform.Improve user engagement and satisfaction by providing quick and accurate responses to common queries.Reduce the workload on customer support agents for routine inquiries.

Design Thinking Process:

Empathize:

 Understand customer pain points through surveys, feedback, and support ticket analysis.

Define:

 Clearly define the scope of the chatbot, identifying key features and user needs.

Ideate:

 Brainstorm possible interactions and features that would benefit users.

Prototype:

 Create a basic flowchart of the chatbot's conversation to visualize user interactions.

Test:

 Collect feedback on the prototype to refine and improve the chatbot's design.

Development Phases:

Phase 1: Planning and Setup

- Define project requirements and objectives.
- Set up Watson Assistant account and environment.

Phase 2: Design and Prototyping

- Create a conversation flowchart.
- Design the chatbot's persona and scripting.

Phase 3: Implementation

- Build the chatbot using Watson Assistant.
- Integrate the chatbot with the e-commerce platform.

Phase 4: Testing

- Conduct user testing to identify and fix any issues.
- Ensure the chatbot provides accurate and helpful responses.

Phase 5: Deployment

- Deploy the chatbot to the e-commerce website.
- Monitor its performance and gather real-time user feedback.

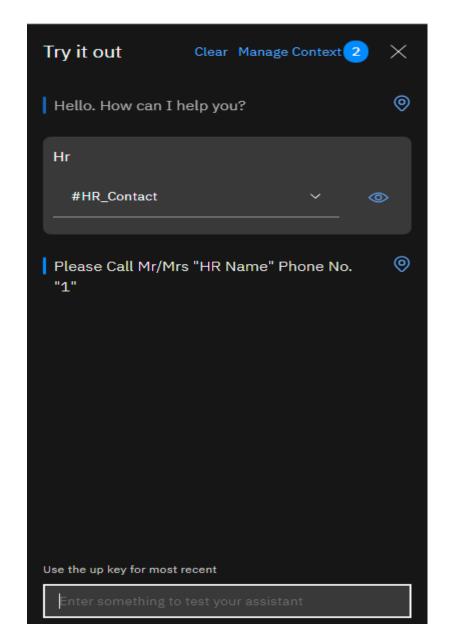
Phase 6: Maintenance and Iteration

 Regularly update the chatbot based on user feedback and changing business needs.

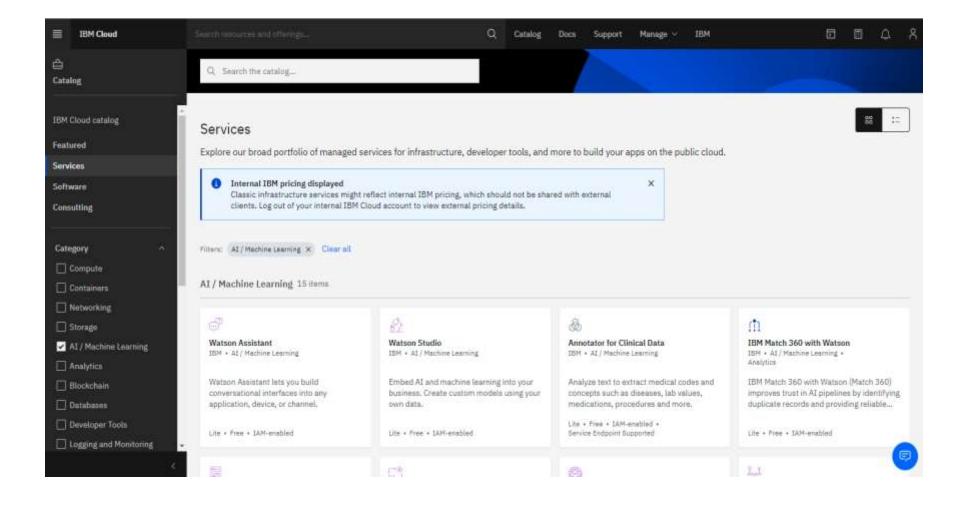
Chatbot Personal:

- Name: ShopBot
- Persona Traits:

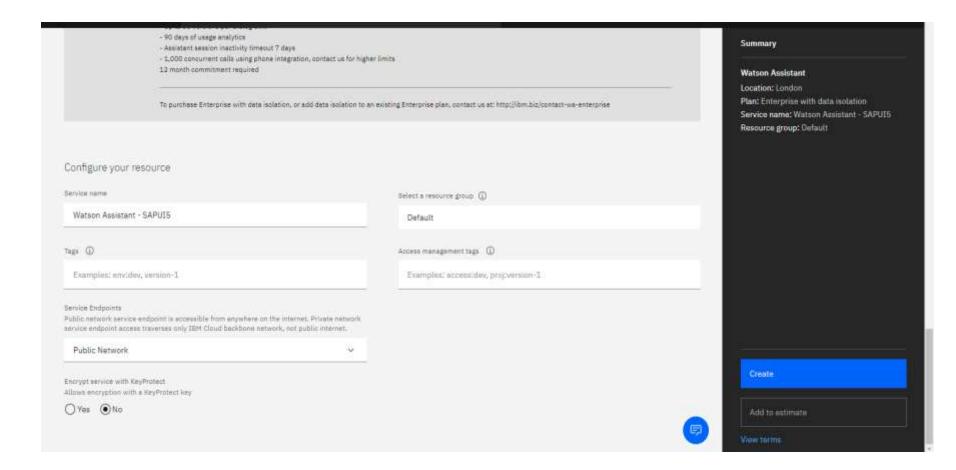
 Friendly, helpful, efficient.
- Language Style: Casual yet professional.



To create the chatbot:



Create a Dialog Skill:





Assistants



An assistant helps your customers complete tasks and get information faster. It may clarify requests, search for answers from a knowledge base, and can also direct your customer to a human if needed.

Create assistant

My first assistant

Built for you to explore and learn.



← Assistants

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Watson Assistant

Actions Beta or Dialog

Build conversations

Understand and address questions or requests that your customers typically ask.

- Actions lets you have an assistant ready to chat in less time, with less effort. Compose step-bystep flows for any range of simple or complex conversations.
- Dialog offers a set of full-feature editors that you use to define both your training data and the
 conversation, with greater control over the logic flow.

Add an actions or dialog skill

Learn more

Search Plus

Turn any content into answers

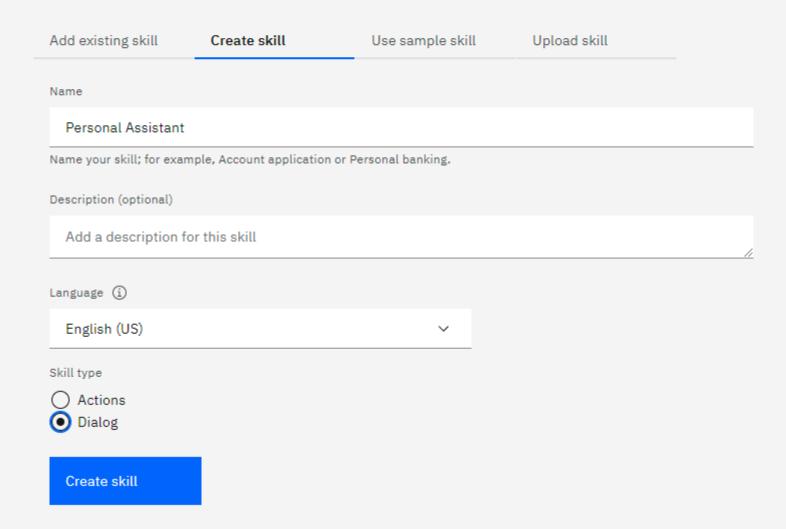
- · Create Q&A experiences in minutes
- · Sync with websites and data sources for always up-to-date answers
- · Handle even complex questions with inclusive, contextual responses

Watch a brief demonstration (b)

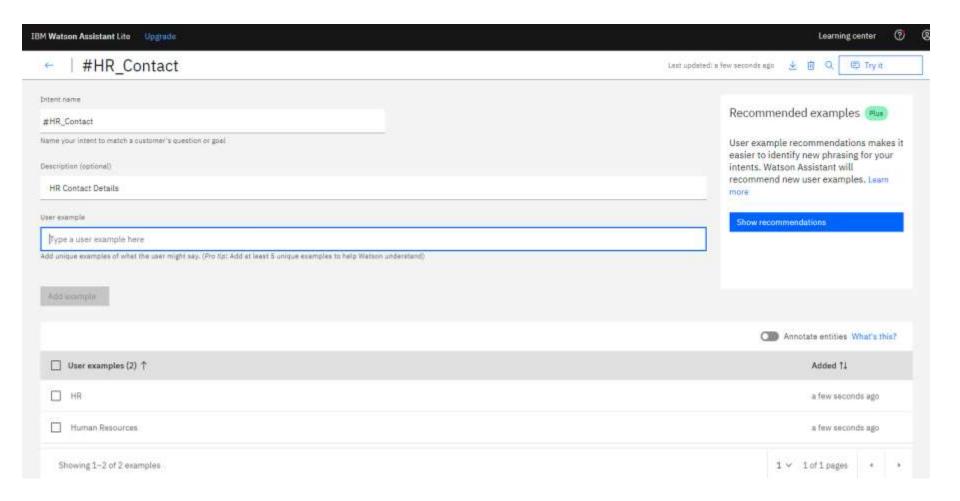
Try Plus plan

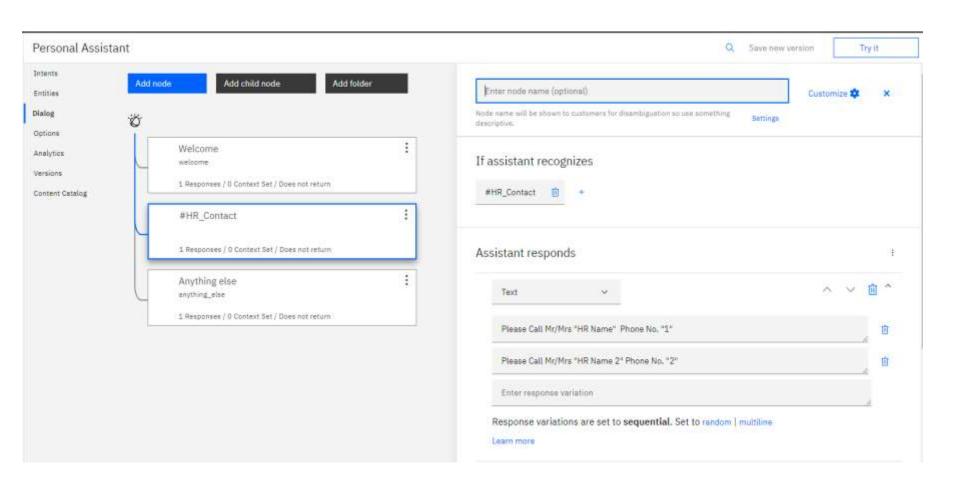
Add Actions or Dialog skill

Add an existing skill or use the sample skill.

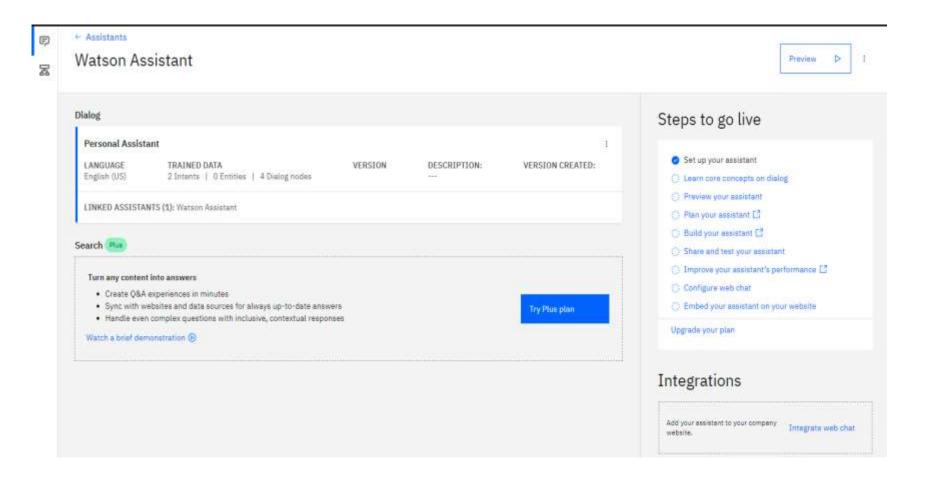


Create Intent & Dialogs:





Integrating web chat:



Web chat

Integration name

Watson Assistant

Style Home screen Live agent Suggestions Security Embed



Customize your chat UI

Update the style to match your brand and your website. A developer can also add more advanced styling changes with code. Learn more

Assistant's name as known by customers

Watson Assistant

Primary color Secondary color

Chat header User message bubble #3D3D3D

Accent color



Add an avatar image 🖉

Conversation Flow:

Greeting:

Welcome the user and inquire about their needs.

User Query Handling:

- Identify user intent through natural language processing.
- Provide relevant information or direct users to appropriate sections.

Transaction Support:

 Assist users with order tracking, returns, and other transaction-related queries.

• FAQs:

 Address frequently asked questions about products, shipping, and policies.

Escalation:

If the query is complex, escalate to human support with context.

Technical Implementation using Watson Assistant:

- Utilize Watson Assistant for natural language understanding and processing.
- Define intents, entities, and dialog nodes.
- Implement context handling to maintain conversation context.
- Integrate with the e-commerce platform's APIs for real-time data retrieval.

Examples of User Queries and Responses:

User Query 1:

- User: "How can I track my order?"
- Bot Response: "Sure thing! To track your order, please provide your order number, and I'll get the details for you."

User Query 2:

- User: "What is your return policy?"
- Bot Response: "Our return policy allows you to return items within 30 days of purchase. For more details or to start a return, visit our Returns page."

User Query 3:

- User: "I received a damaged item. What should I do?"
- Bot Response: "I'm sorry to hear that. Please take a photo of the damaged item and email it to <u>support@example.com</u>. Our team will assist you with the return process."

Conclusion:

 This documentation provides an overview of the project's objectives, design thinking process, development phases, chatbot persona, conversation flow, and technical implementation using Watson Assistant. It also includes examples of user queries and the expected chatbot responses. Adjustments can be made based on specific project requirements and feedback during the development and testing phases.