



Microsoft Federal Developer Summit Building Al Solutions

Building Smart Bots: Designing AI for Microsoft Teams

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AGENDA

- Al Library for Copilots
- Copilot In Teams
- Demo
- Messaging Extensions in Teams
- Why Messaging Extensions
- Demo
- Q/A

Teams Al Library

Prebuilt Templates and Safety Features

- Adding Teams App Capabilities
 - Utilize prompt engineering for conversational experiences
 - Incorporate built-in safety features like moderation
- Al Library for Teams
 - Teams-centric interface to Large Language Models
 - Use prebuilt models for ease of integration

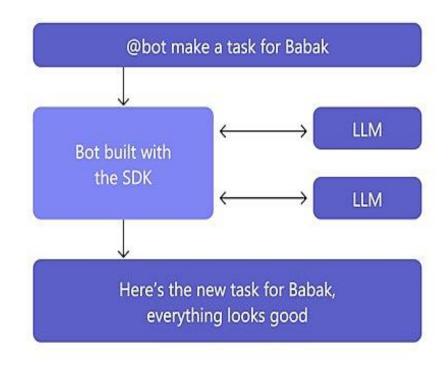
Truly conversational Teams apps built with purpose to leverage apps skills



Built-in natural language processing, akin to ChatGPT, with prompt engineering and moderation

Planning engine that guides conversation to extract intents and maps to app actions

LLM modularity-developers can use any LLM they choose





Building your custom copilot

CHOOSE YOUR DEVELOPMENT PATH







Microsoft Copilot Studio

Pro-Code Development Environment



Low-Code Natural Language & Graphical Development Environment

Teams Centric Focus & Capabilities



Support for Multiple Channels

Enhance Existing Teams App with AI



Upgrade Power Virtual Agents to Copilots

Pay-As-You-Go Consumption Model



Copilot Studio License Required



Teams Al Library

Simple Interface for Actions and Predictions

Ambient Presence for Learning Intent

- Bots use prompts based on business logic
- Generate responses accordingly

Retrieval Augmented Generation (RAG)

Prompt management

Teams Al Library Simplification

Prebuilt Templates

Bots Message extensions Adaptive Cards Link unfurling



Simple Team Centric Components

Moderation Hooks

Regulate bot responses

Conversation Sweeping

- Monitor conversations
- Intervene when conversations go astray

Feedback Loops

Enhance user experience



Responsible Al



Predictive Engine for Mapping Intents to Actions



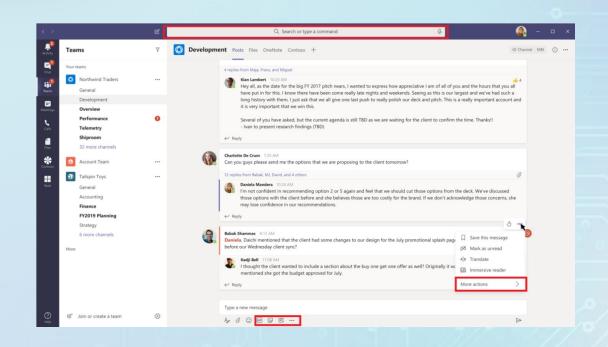




DEMO

What are messaging extensions for Teams?

- Messaging extensions allow users to query your service for information, and post information to your service.
 - Users can search, or initiate actions, in an external system from the compose message area, the command box, or directly from a message.
 - Developers can then send the results of that interaction back to the Microsoft Teams client, typically in the form of a richly formatted card.





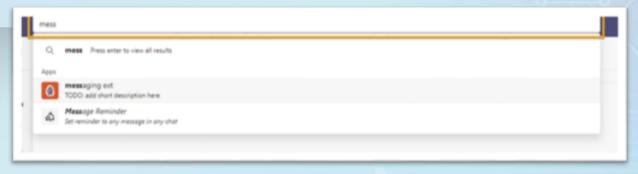
Why Messaging Extensions?

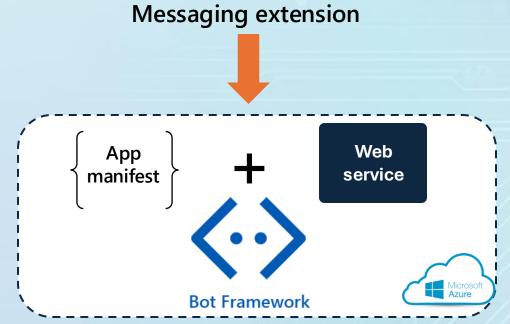
- Extends Teams interface into other services or endpoints
- Interface already exists
- Teams has a large user base



How do Messaging extensions work?

- Consists of a web service and an app manifest hosted in cloud which is invoked from the Microsoft Teams client.
- Web service takes advantage of the Bot Framework's messaging schema and secure communication protocol
- Registering your web service as a Copilot in the Bot Framework is a must







Explore the Teams Al Message Extention Project





Conclusion/Call to Action

- For Developers:
- Begin integrating AI into your Teams apps.
- For Decision-Makers:
- Explore how AI capabilities can benefit your organization's communication strategies.

Q and A



THANK YOU!

References
Teams Al Library

aka.ms/teams-ai-repo





Feedback

https://aka.ms/summit/feedback



