



Dr. Potasio (Dr.K.) un Nuevo asistente clínico



ASISTENTE VIRTUAL PARA LA TOMA DE DECISIONES

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Infosicación de App's Médicas

- ▶ Aplicaciones móviles para la toma de decisiones:
 - ▶ App's Calculadoras clínicas.
 - ▶ Apps' Gestión de protocolos.
 - ▶ App's Diccionarios médicos.
 - ▶ Apps' Documentación Clínica



Nuestra propuesta: Dr.Potassio (Dr.K)

- ▶ Crear un Nuevo entorno UX.
- ▶ Generación de un ChatBot o asistente virtual, que englobe todas las App's
- ▶ Poder interactuar con el bot , para agilizar el trabajo diario
- ▶ Que el Bot, aprenda nuestras necesidades y nos ayude
- ▶ Nos guie, durante la búsqueda de la solución.

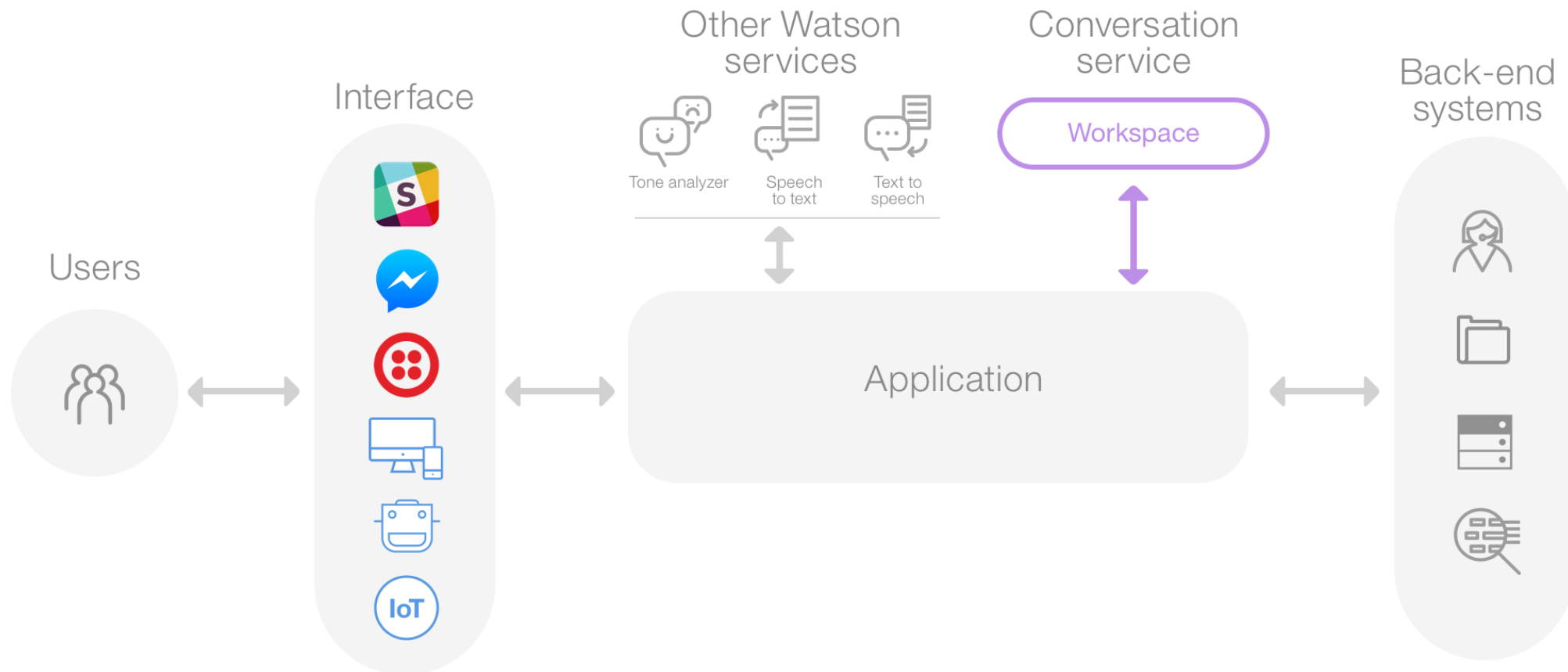


Metodologia desarrollo del ChatBot

- ▶ Utilización de un CORE principal:
 - ▶ IBM Watson conversation
- ▶ Cliente Final, pudiendo elegir distintos sistemas de chats:
 - ▶ Slack
 - Messenger Facebook



Arquitectura IBM Watson Conversation



Servicios IBM Watson



AlchemyAPI

An AlchemyAPI service that analyzes your unstructured text and image content

IBM



Conversation

Add a natural language interface to your application to automate interactions with

IBM



Discovery

Add a cognitive search and content analytics engine to applications.

IBM



Document Conversion

Converts a HTML, PDF, or Microsoft Word™ document into a normalized HTML, plain

IBM



Language Translator

Translate text from one language to another for specific domains.

IBM



Natural Language Classifier

Natural Language Classifier performs natural language classification on question texts

IBM



Personality Insights

The Watson Personality Insights derives insights from transactional and social media

IBM



Retrieve and Rank

Add machine learning enhanced search capabilities to your application

IBM



Speech to Text

Low-latency, streaming transcription

IBM



Text to Speech

Synthesizes natural-sounding speech from text.

IBM



Tone Analyzer

Tone Analyzer uses linguistic analysis to detect three types of tones from

IBM



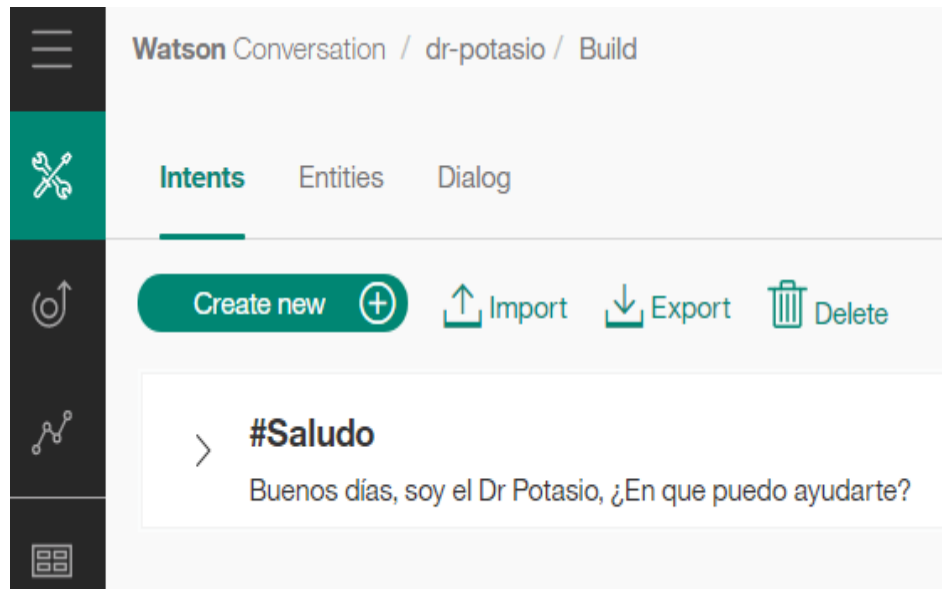
Tradeoff Analytics

Helps make better choices under multiple conflicting goals. Combines smart

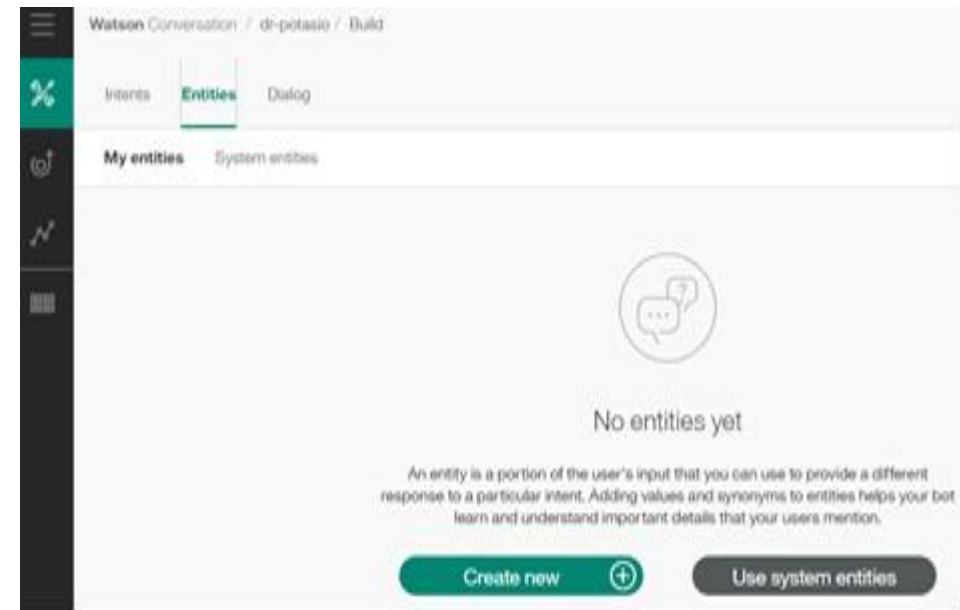
IBM

Estructura de un Chat-Bot. Partes 1/2

Intents: Intenciones



Entity: Entidades palabras clave



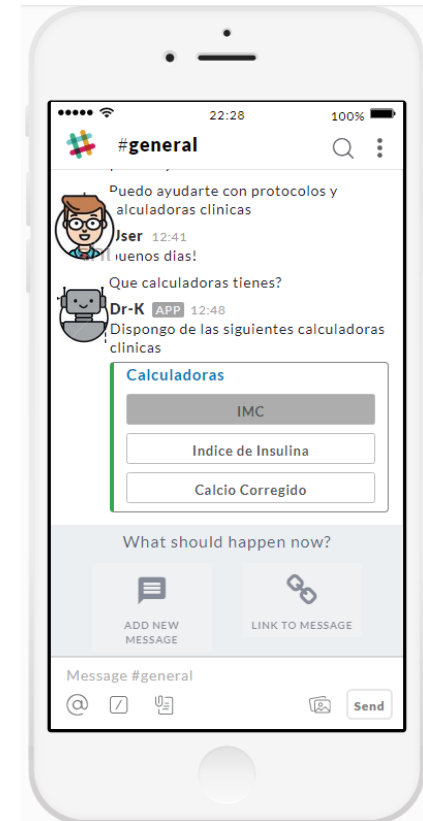
Estructura de un Chat-Bot. Partes 2/2

Dialog - Flow

The screenshot shows the 'Watson Conversation / DR-Potasio / Build' interface. The 'Dialog' tab is selected, showing a list of nodes for the bot 'DR-Potasio'. There are two nodes:

- Bienvenido**
welcome
1 Response / 0 Context set
- En otras cosas**
anything_else
1 Response / 0 Context set

Buttons for 'Add node' and 'Add child node' are visible at the top of the dialog area.

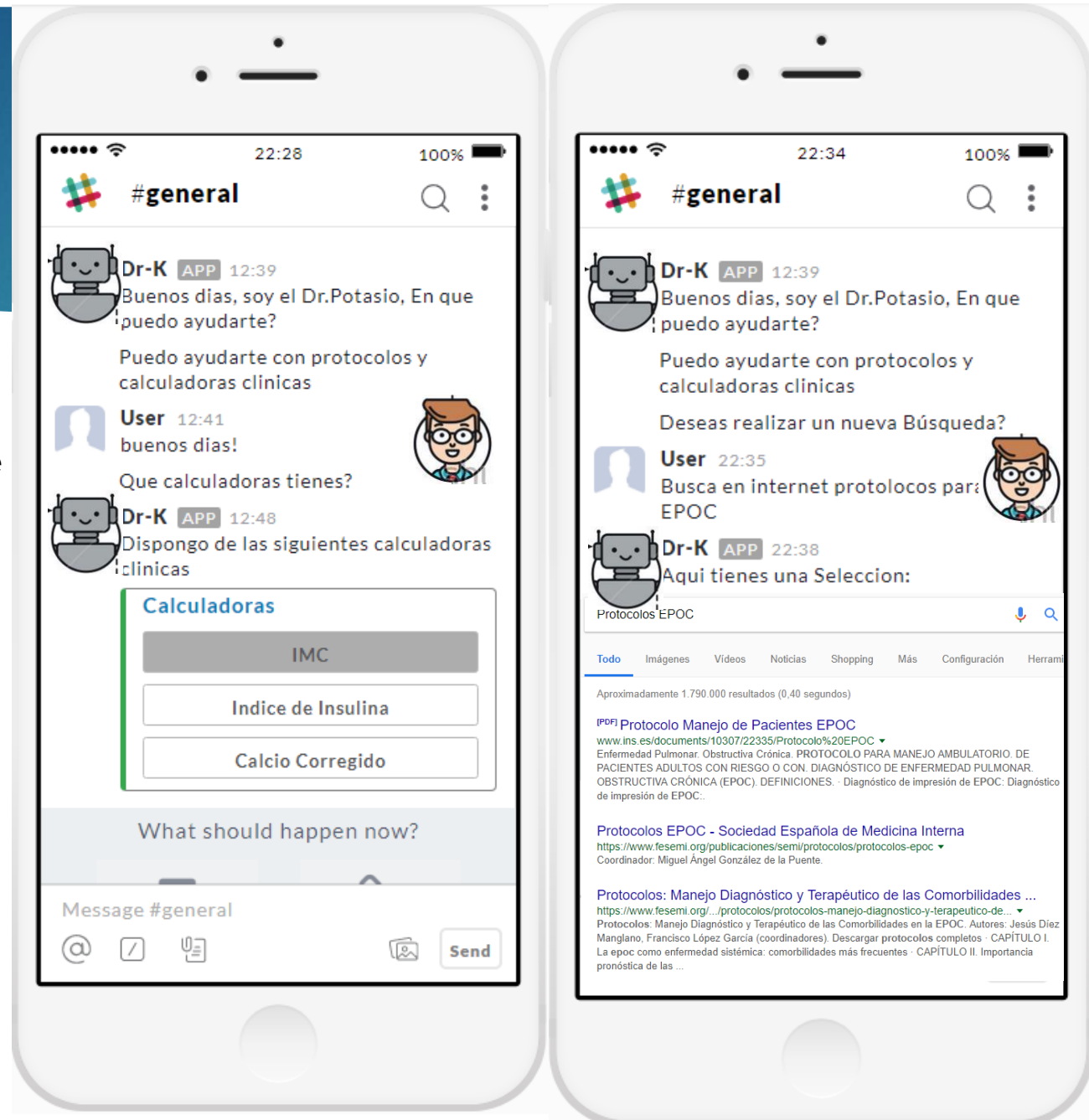


Resultados:

interacción con el Bot amigable

Resultados directos y rapidos

Facilidad de USO



Bibliografia:

- ▶ Imagenes Creadas por: (Creado por Potoroyalty - Freepik.com)
- ▶ IBM Cloud Watson Conversation

[1] <http://www.merckmanuals.com/es-us/hogar/resourcespages/self-assessment-tools>

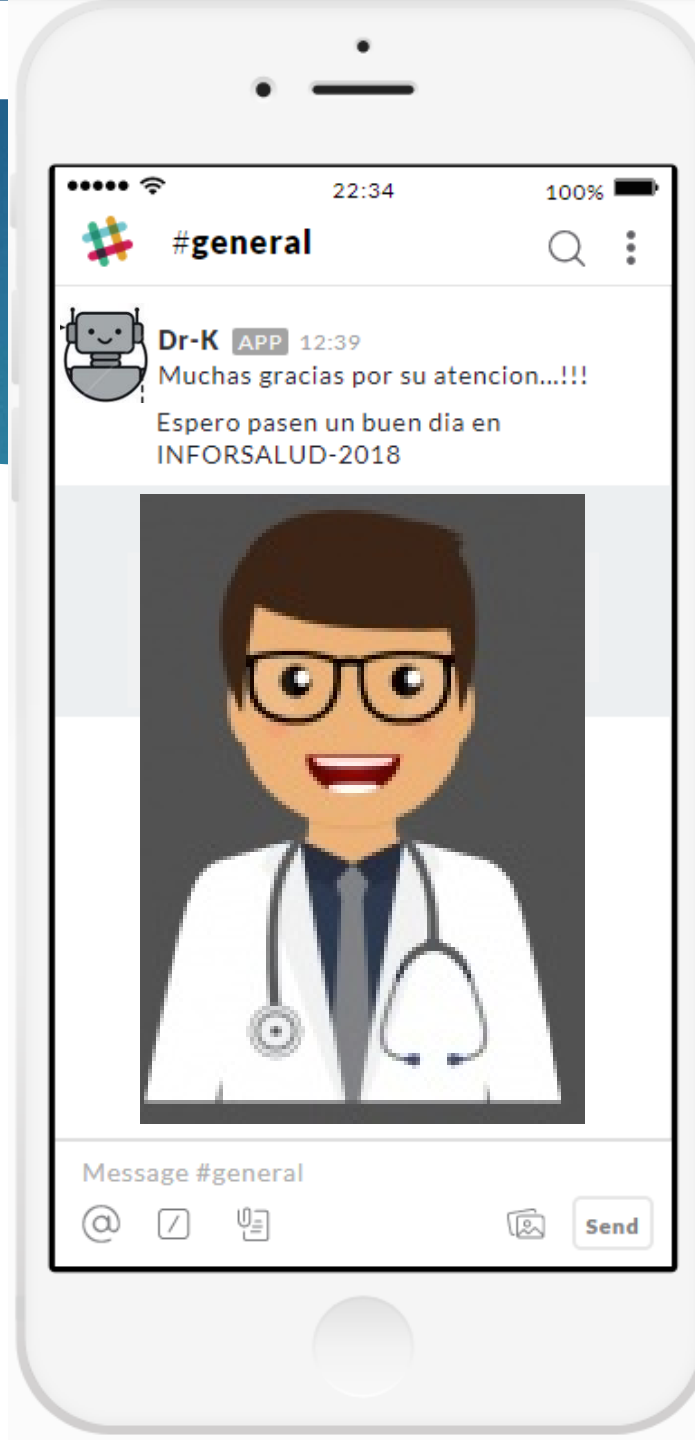
[2] <http://www.semergencantabria.org/calculadoras.htm?17>

[3] Guia de desarrollo ChatBot con IBM Watson

(<https://console.bluemix.net/docs/services/conversation/getting-started.html#gettingstarted>)

Muchas gracias por su Atencion

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