Using the Building Blocks of Chatbots



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Overview

Agents translate user requests to actionable data i.e intents

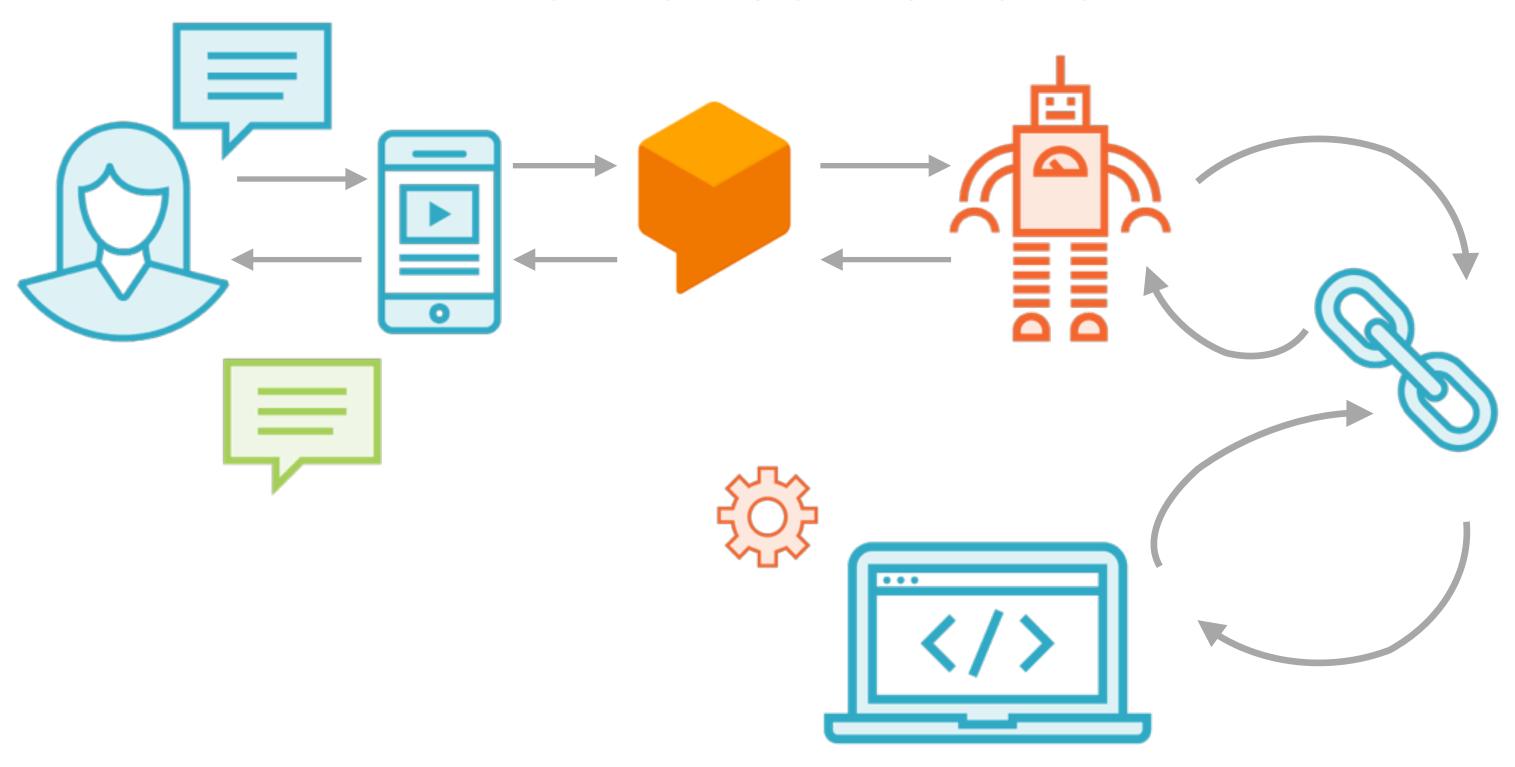
Entities help extract information from user speech with the help of prompts

User expressions are annotated to specify parameters which customize queries

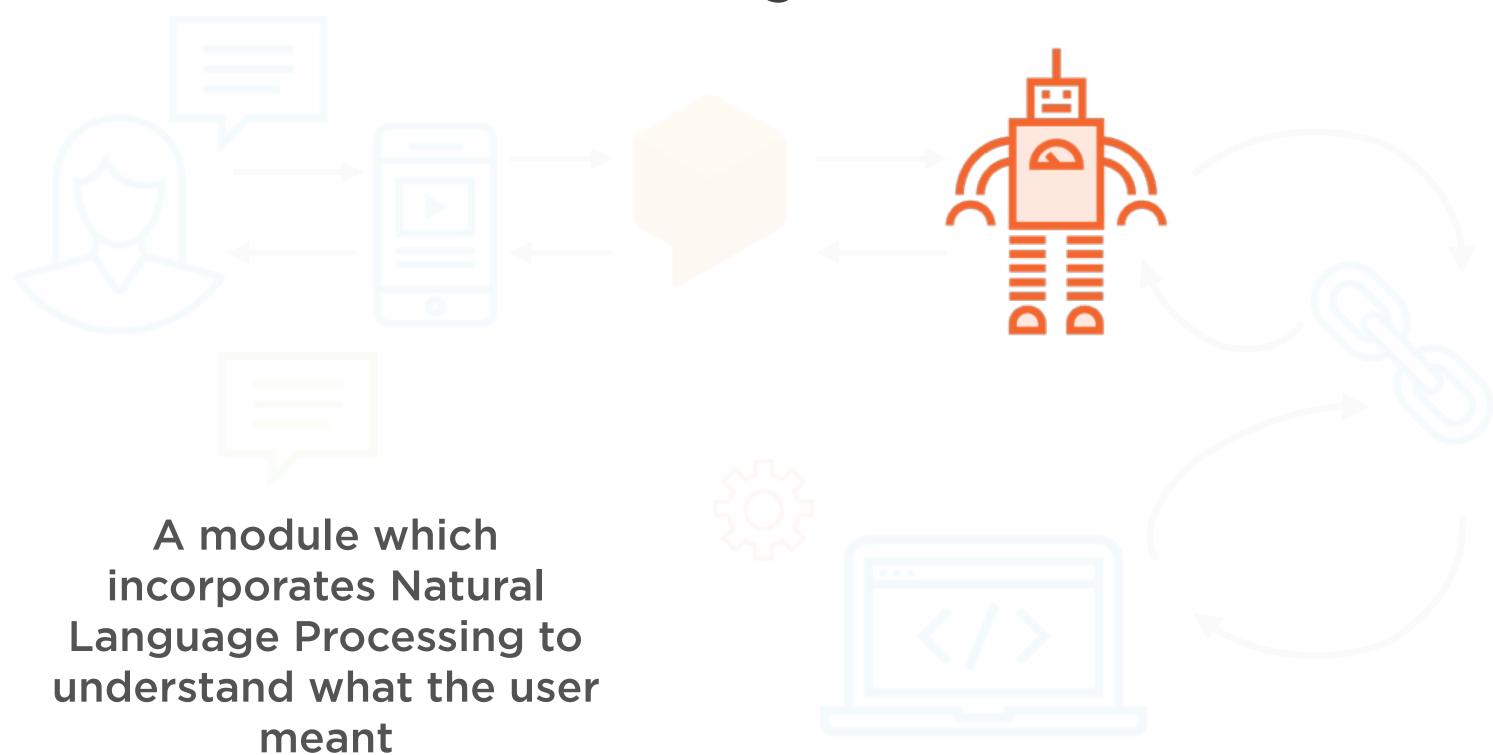
Smalltalk helps make bots friendly and chatty with no additional code

Agents

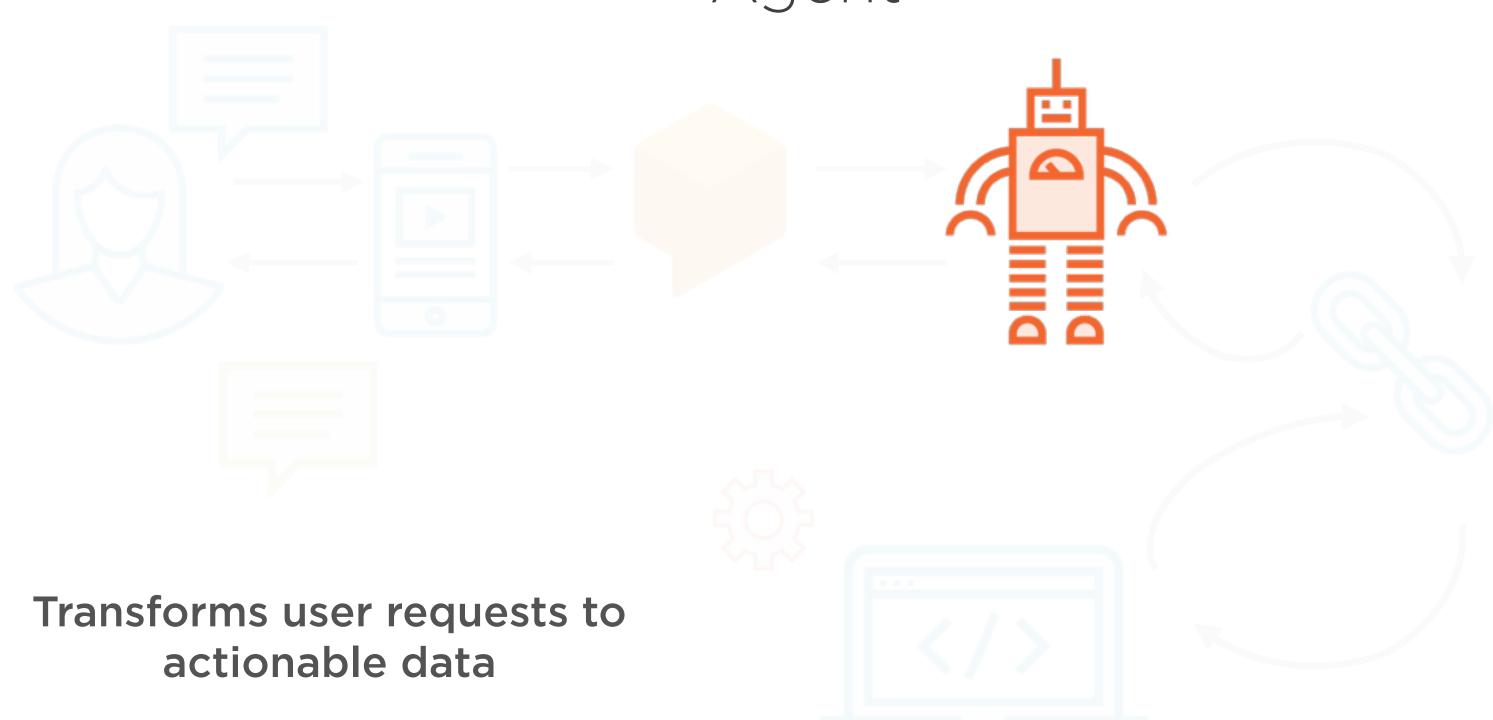
Flow of Conversation







Agent

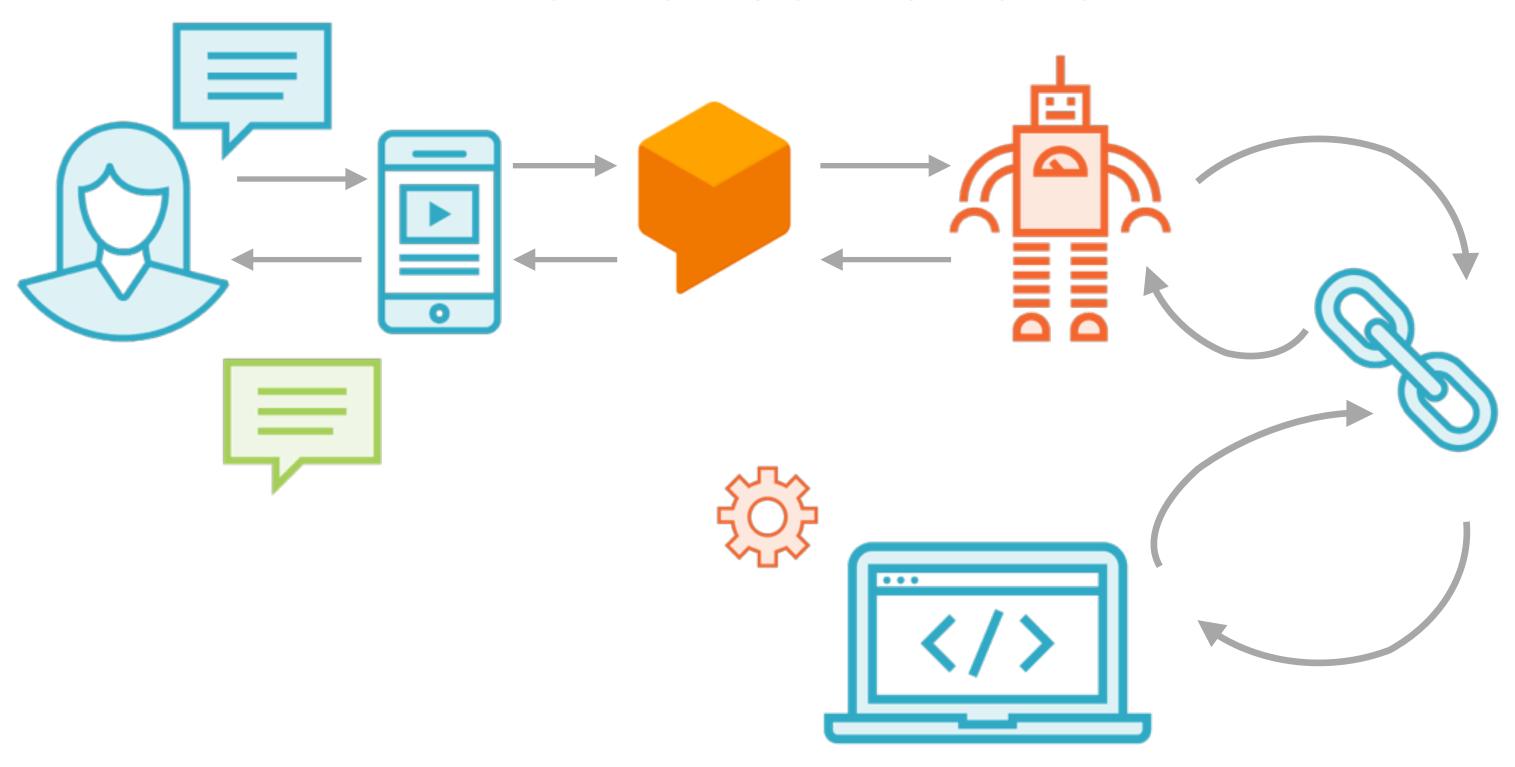


Agents manage conversation flow with the user using intents, entities, contexts and other building blocks

Build an agent which helps plan business trips

Intents

Flow of Conversation



Intent



Intent maps what a user says and what your software should execute

Default Intents

Welcome

Greet the user, exchange pleasantries (partially configured)

Fallback

Default or fall through intent when no others match (fully configured)

Intent Sections



Intent Sections



Configure and explore default intents

Make your bot chatty using Smalltalk

Create custom intents

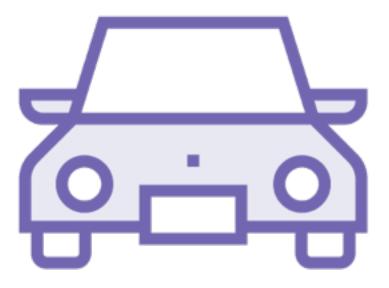
Custom Intents



BookFlights



BookRooms



BookCars

Entities

A Conversation

Book a room for me please

Which city do you plan to visit?

Bangalore

What date should I book for?

This Friday

Any room preference?





Slots to be Filled

Book a room for me please



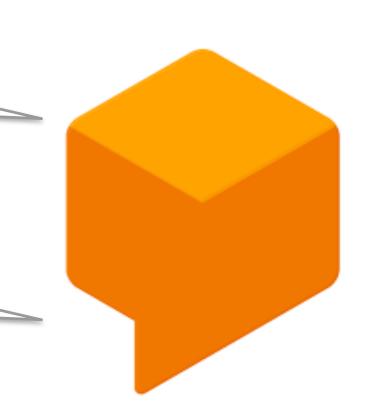
Bangalore

What date should I book for?

This Friday

Any room preference?





Parameter values

Book a room for me please

Which city do you plan to visit?

Bangalore

What date should I book for?

This Friday

Any room preference:





Entities are used to extract parameter values from user queries

Entities

Book a room for me please



Which city do you plan to visit?

Bangalore

What date should I book for?

This Friday

Any room preference?

Entities

city

date

All the information we need in a user query will have a corresponding entity

room

Type of Data Expected



room

Developer entity

Entities

city

date

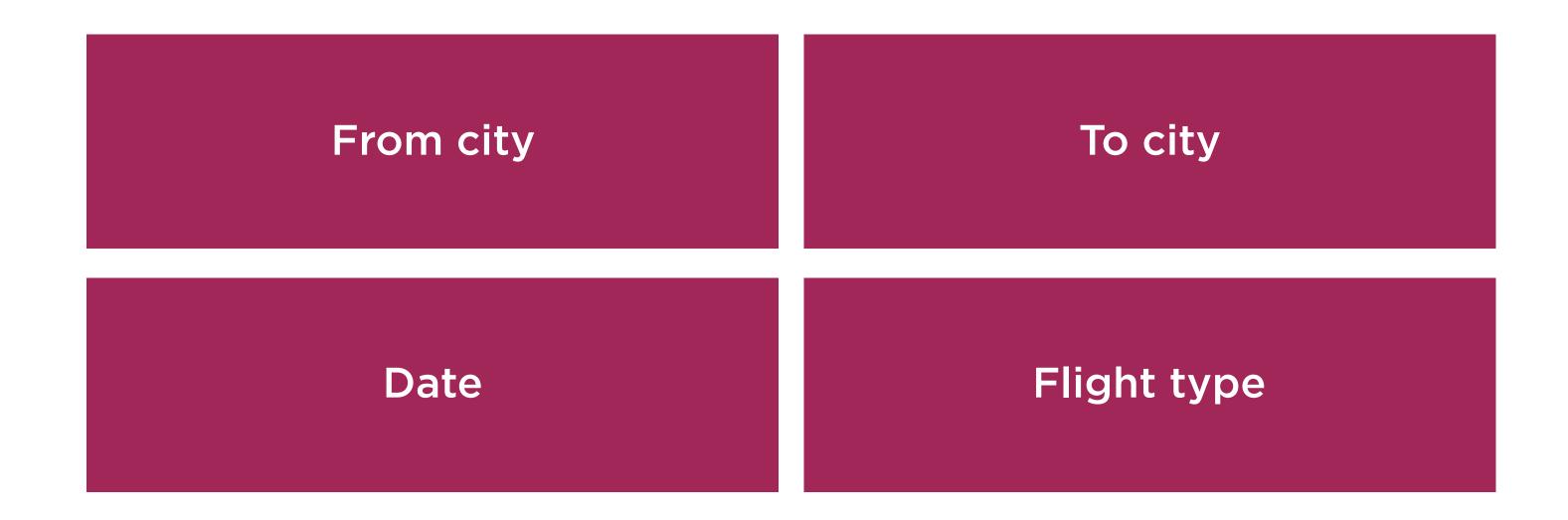
User entities are those that can be defined at a session level i.e. a user's playlist

room

Create developer entities used to extract values for custom intents:

- BookFlights
- BookRooms
- BookCars

BookFlights Intent



BookFlights Intent

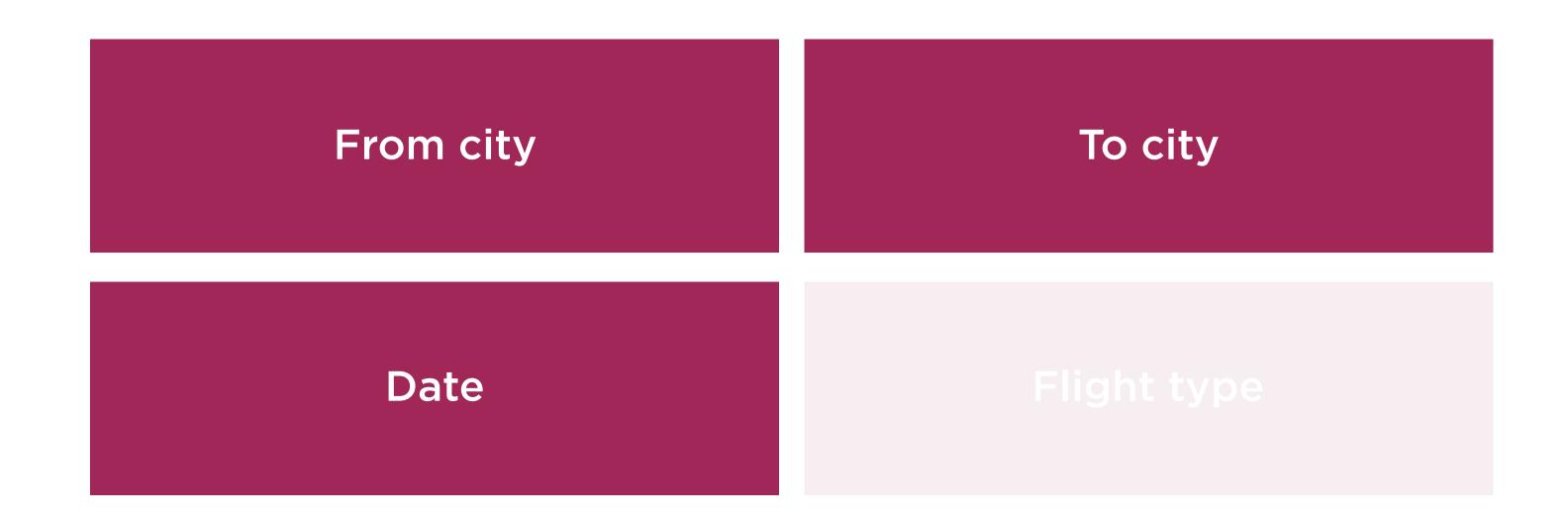
From city

To city

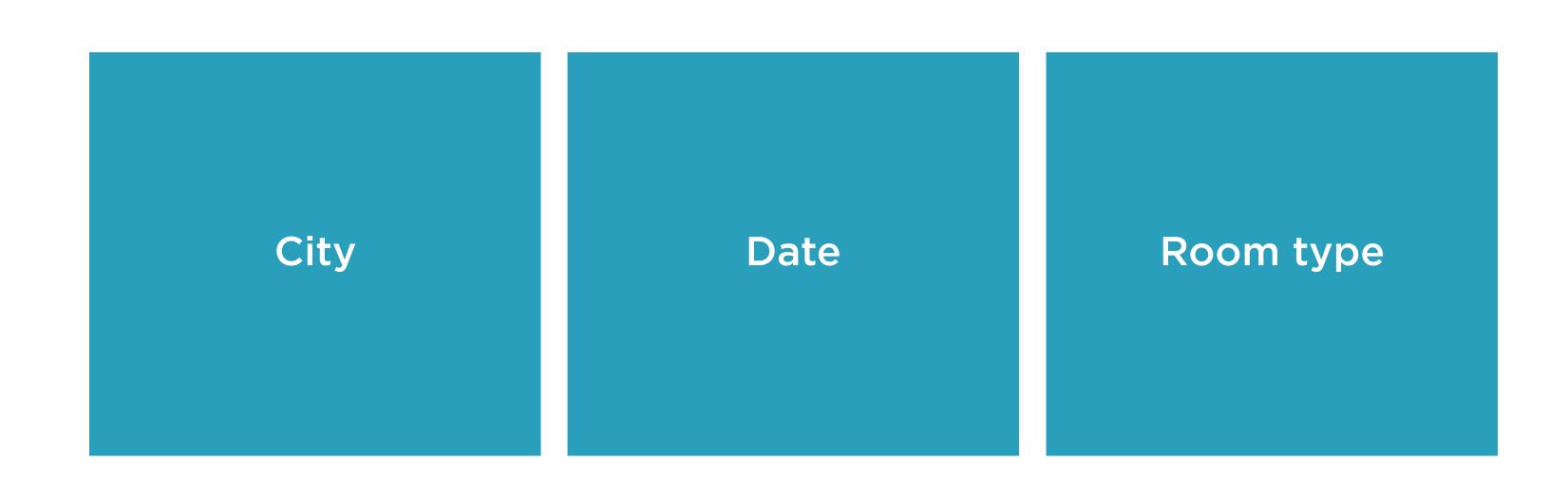
Date

Flight type

BookFlights Intent



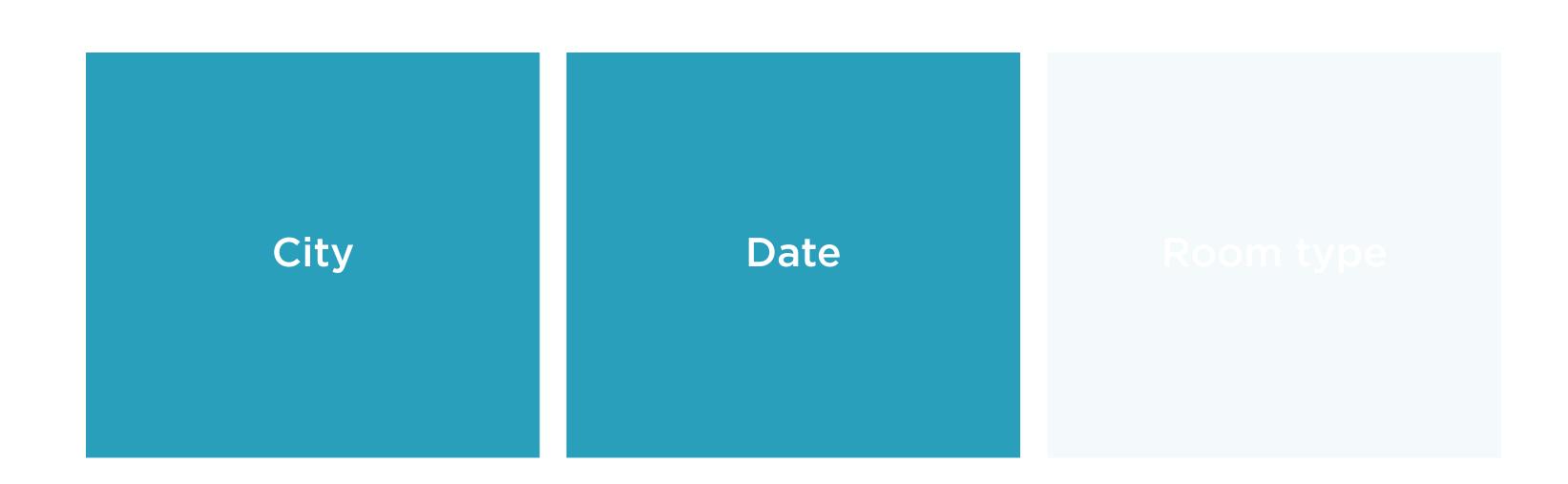
BookRooms Intent



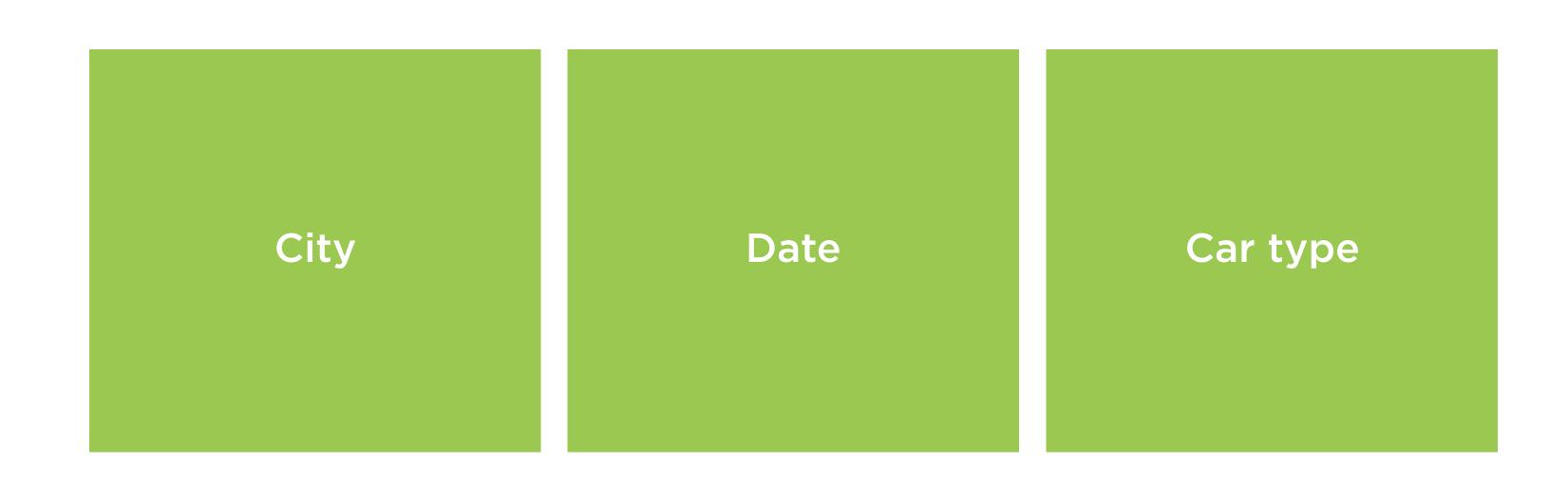
BookRooms Intent



BookRooms Intent



BookCars Intent



Configure the BookFlights intent with:

- Expressions with annotations
- Parameters
- Prompts

A Conversation

Book a room for me please

Which city do you plan to visit?

Bangalore

What date should I book for?

This Friday

Any room preference?





Prompts

Book a room for me please



Bangalore

What date should I book for?

This Friday

Any room preference?





Configure the BookRooms and BookCars intent with:

- Expressions with annotations
- Parameters
- Prompts

Explore the JSON request sent for fulfillment

Summary

Implemented the TripPlanner agent allows booking flights, hotel rooms and cars

Enabled Smalltalk for friendly conversations

Used entities to extract information, configured user expressions, prompts and responses