Lets Upgrade

A Community based Learning Platform

Language Understanding Intelligent Service (LUIS)

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Agenda

- Natural Language Processing
- Language Understanding Intelligent Service (LUIS) The Secret Sauce : Intent, Entity, Utterances Steps to build LUIS application
- Demo

Natural Language Processing

Facilitates Human Machine Interaction

Understand Natural Human Language

Branch of Artificial Intelligence

Chatbots, Siri, Cortana, Alexa

Processes Human Language

Language Understanding Intelligent Service (LUIS)

Azure Cognitive Services

Natural Language Processing Service

Supports 19 Languages

REST Service

Supports Active Learning

Highly Scalable & Reliable

No Code Development

Supports Prebuilt Domain & Entities e.g. Calendar, RestaurantReservations

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Language Understanding Intelligent Service (LUIS)

Exposed as REST APIs

Developer trains the Engine with business specific requirements

**Natural Language Processing Engine managed
and developed by Microsoft**

The Secret Sauce

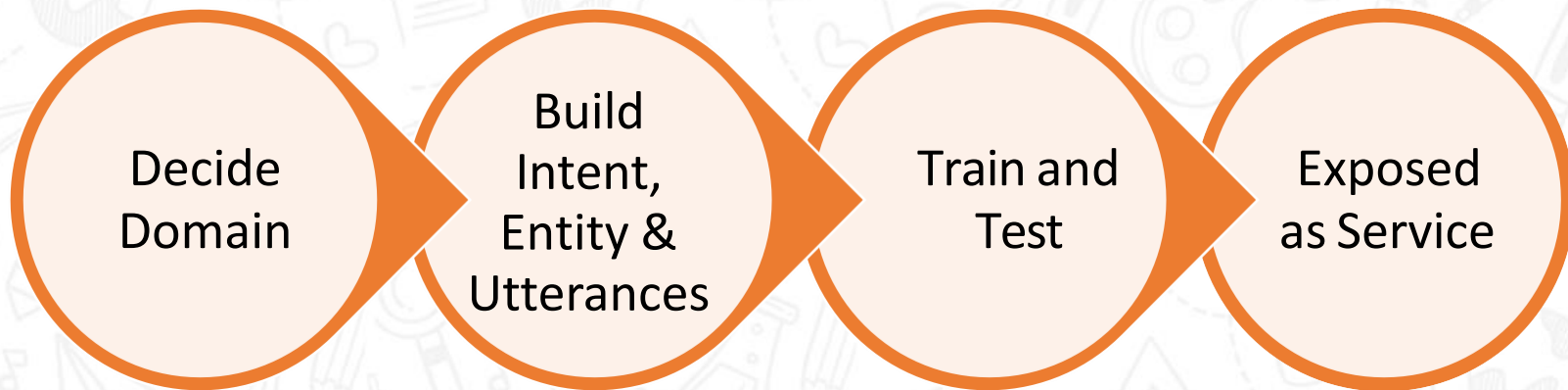| INTENT	Entities	Utterances
✓ **Describes what user wants to do** ✓ **Prebuilt Intent based on domains and Custom Intents** ✓ **Prebuilt Intent – Calendar : CheckAvailability, Delete**	✓ **Describes on what user wants to action on** ✓ **Simple, List, Regex, Composite, Pattern.Any(), Prebuilt – Age, Currency, Email**	✓ **What user says** ✓ **Binds Intent and Entities together** ✓ **Helps LUIS to Learn – Book a seat, Block a seat**
"Book a Seat" : Intent (VERB) – Book, Entity (Noun) – Seat, Utterance (Phase) – Book a seat		

Steps to build LUIS Application

Decide Domain

Build Intent, Entity & Utterances

Train and Test

Exposed as Service

Demo

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