Stage Mobila

A natural language processing system
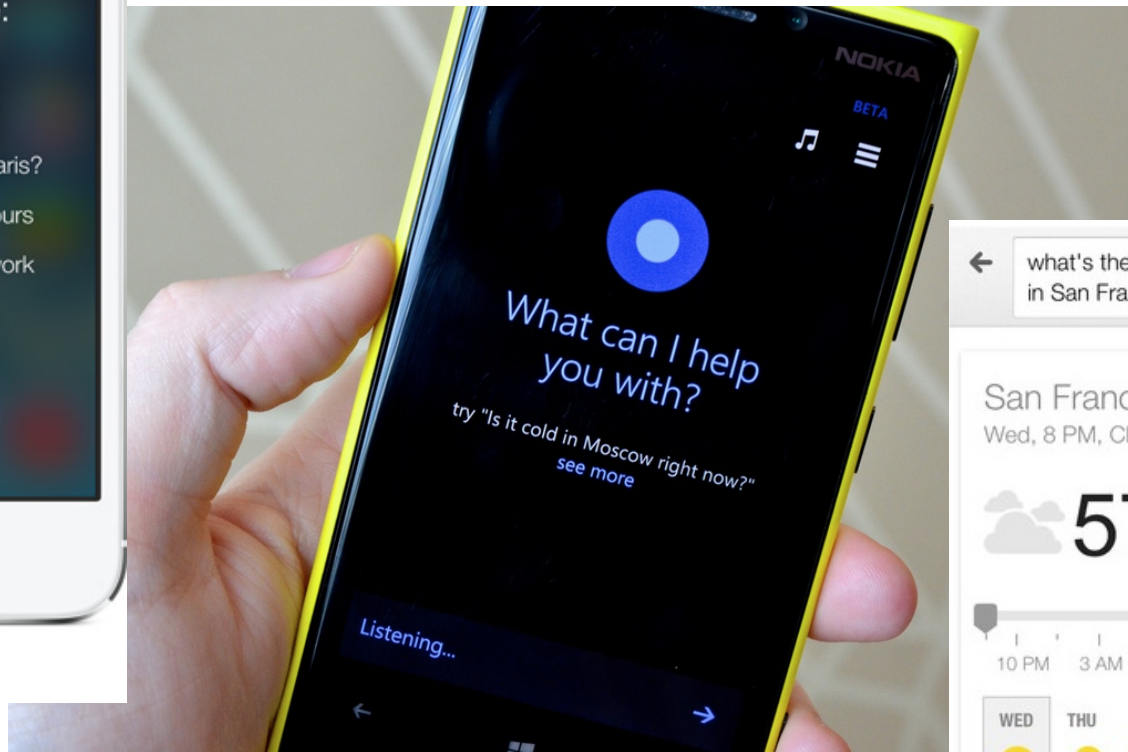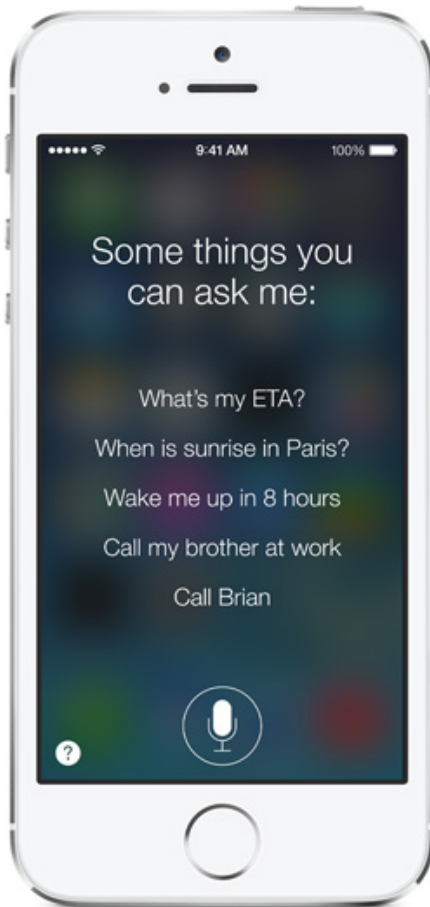
Problem

```sql
SELECT cdid, artiest, title, type
FROM cd_dvd
WHERE artiest ='Pink Floyd'
AND type = 'cd';
```

Solution

Some things you
can ask me:

What's my ETA?

When is sunrise in Paris?

Wake me up in 8 hours

Call my brother at work

Call Brian

9:41 AM   100%

BETA

What can I help
you with?

try "Is it cold in Moscow right now?"
see more

Listening...

what's the weather like
in San Francisco

San Francisco, CA
Wed, 8 PM, Cloudy

57 °F | °C   Precip: 0%
Humidity: 72%
Wind: 29 mph

10 PM   3 AM   8 AM   1 PM   6 PM

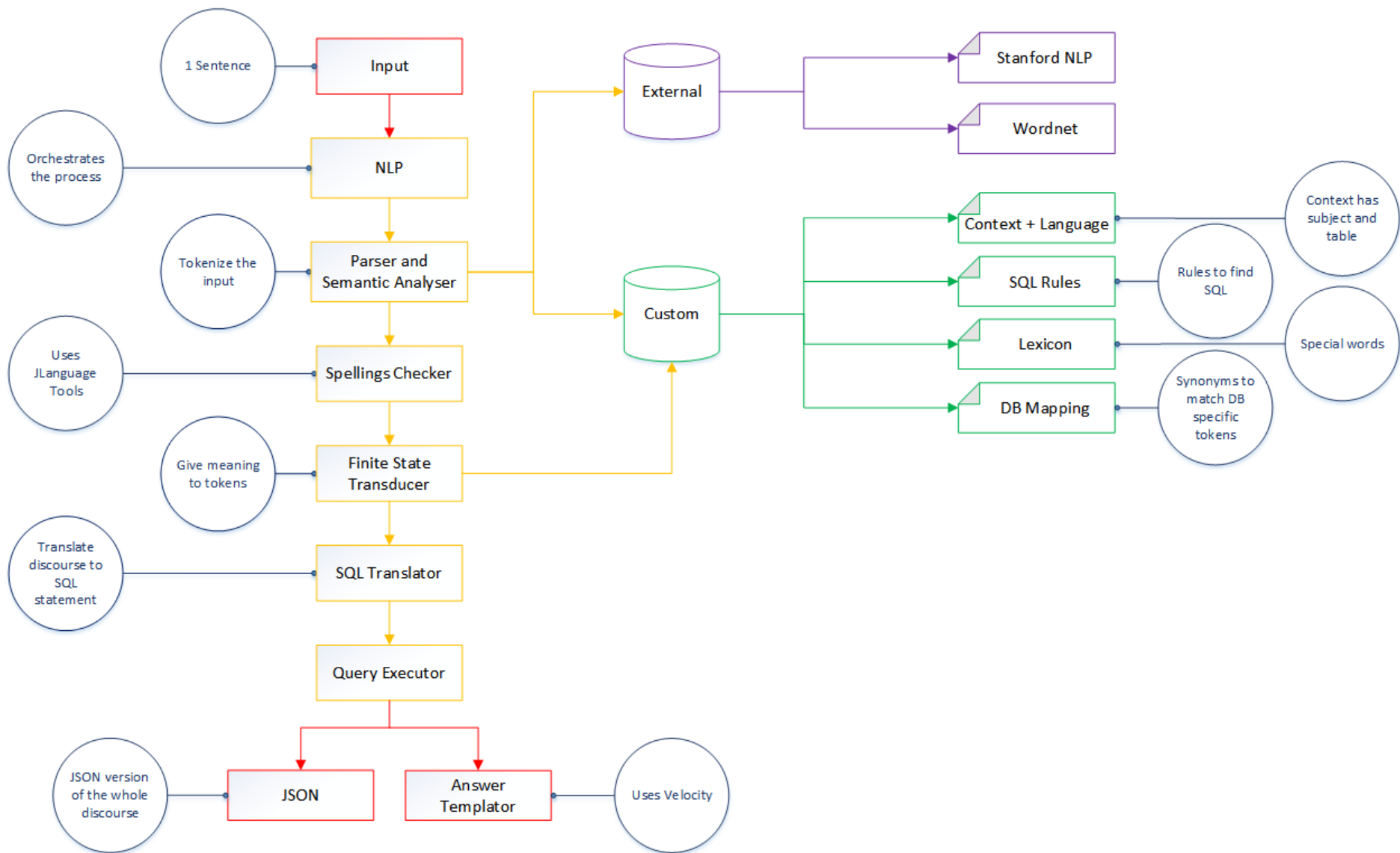| WED	THU	FRI	SAT	SUN	MON
80°	68°	68°	68°	64°	64°
52°	52°	52°	50°	46°	46°

MOBiLA

Mobile Enterprise Applications

Dialogue System

Send ▼

English

Chinese

Nederlands

[11:03:55] **Computer**

Hello Mr. X, We currently have a french St.-Emillion in promotion - 10% reduction, are you interested and do you want more information?

Demo

MOBILA
Mobile Enterprise Applications

NLP Question english

- **English:** From which year is the wine with the name St. Emilion?
- **Chinese:** 哪年可是圣爱美浓 的酒名 <Saion>

Give me all the wines before the year 2008 and after the year 2002

Get

Here are all the wines that I have found

region	id	producer	year	name
Bordeaux	1	XXX	2008	Imperial Grain reserva
Chateau	2	Remy	2008	Giuseppe & Figlio

NLP Question chinese

English: From which year is the wine with the name St.-Emilion

Chinese: 從哪年是葡萄酒同話 名稱St.-Emilion

從哪年利話 或是葡萄酒同話 名稱Imperial Gran reserva   Go!

year
2010

MOBILA
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NLP Question Nederlands

English: From which year is the wine with the name St.-Emilion

Chinese: 这哪年 是这瓶问这 名牌St.-Emilion

Van welk jaar is de wijn met de naam St.-Emilion?   Go!

year

2010

Mobila
Mobile Enterprise Applications

Dialogue System

Send

[12:36:07] **Computer**

producent

Xavier

Do you want more information about this product?
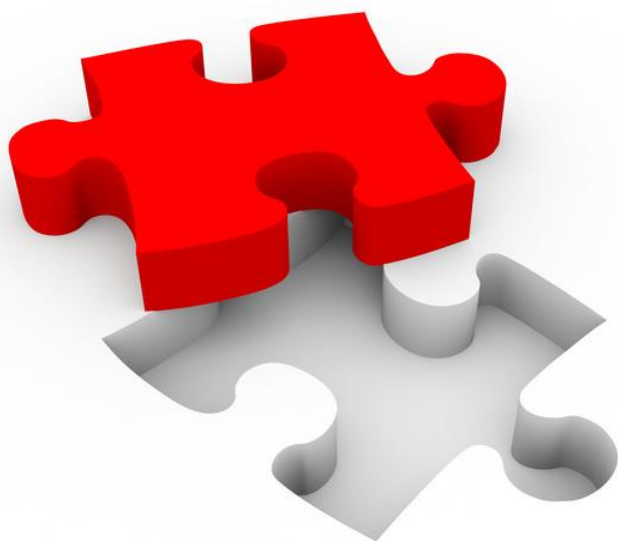
[12:36:07] **Person**

Implementation

Super easy

DB Mapping

id	map	synonym	type	language_fk	relation_fk
1	wine	,wine,wines,	table	1	(NULL)
2	weather	,weather,	table	1	(NULL)
3	year	,year,years,	column	1	1
4	producent	,producent,producents,producer,produce,	column	1	1
5	name	,name,names,	column	1	1
6	region	,region,regions,origin,	column	1	1
7	temperature	,temperature, temperatures,	column	1	2
8	place	,place, places,	column	1	2

SQL Rules

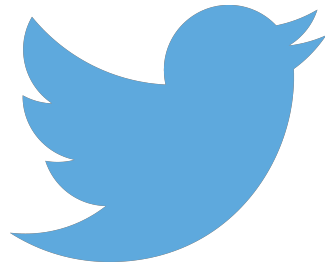| id	is_column	is_concat	output	rule	synonym	language_fk
1	0	0	AVG	avg_stmt	,average,	1
2	0	0	BETWEEN	between_stmt	,between,betwixt,tween,	1
3	1	0	COUNT(*)	count_stmt	,count,number,enumerate,numerate,matter,weigh,	1
4	0	0	=	equal_stmt	,equal,be,touch,rival,match,equalize,equalise,equate,	1
5	0	0	EXCEPT	except_stmt	,except,demur,exclude,leave out, leave off, omit, take o…	1
6	0	0	EXISTS	exists_stmt	,exists,	1
7	0	0	>	greater_stmt	,greater,bigger,older,more,more than,bigger than,after,	1
8	0	0	HAVING	having_stmt	,having,hold,feature,experience,receive,have,got,	1
9	0	0	<	less_stmt	,less,smaller,younger,smaller than,less than,before,	1
10	0	0	LIKE	like_stmt	,contains,begins,	1
11	0	0	MAX	max_stmt	,maximum,maximal,biggest,most,largest,the most,	1
12	0	0	MIN	min_stmt	,minimum,minimal,smallest,least,	1
13	0	0	SELECT	select_stmt	,select,choose,take,select,pick out,show,demo,exhibit,w…	1
14	1	0	*	all_stmt	,all,everything,	1
15	0	1	AND	and_stmt	,and,	1

Business

Knowledge $=$

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