

OVERVIEW

02 METHODOLOGY

03 DEMONSTRATION

NEXT STEPS



#### **Chat Product**

CoronaTravel wants to create a conversational product that allows users to query:



FLIGHT PRICES



HOTEL BOOKINGS



CAR RENTALS

## Project Plan

PHASE 1

PHASE 2

Create a POC model that extracts information from conversational text

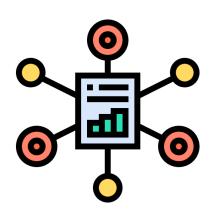
Productionize model to an instant messaging platform



## **Development Process**







DATA EXTRACTION

**PREPROCESSING** 

NER MODEL

#### **Data Extraction**

#### Frames dataset

- JSON format
- 1369 conversations between two people
- Booking a vacation including flights and hotel
- Complex conversations user considers different options and compare packages



# Preprocessing

Steps	
1. Contractions	Pycontractions – 4 hours
2. Tokenization	Sentence, word
3. Punctuation	Removed all except \$
4. Lower case	Normalization
5. Stop word	Removed all
6. POS tagging	Identifies part of speech
7. Lemmatization	Convert word to its base form

#### **NER Model**

MONEY

Applied our training data to spaCy's pretrained model

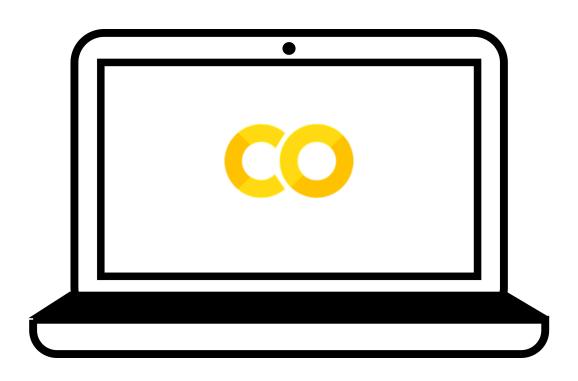


- Monetary values, including unit



**O** 

#### Demo





## Next Steps

(1) Connect model to travel API

- 2 ChatterBot automated responses
- 3 Deploy chatbot onto messaging platform



## **THANKS**

