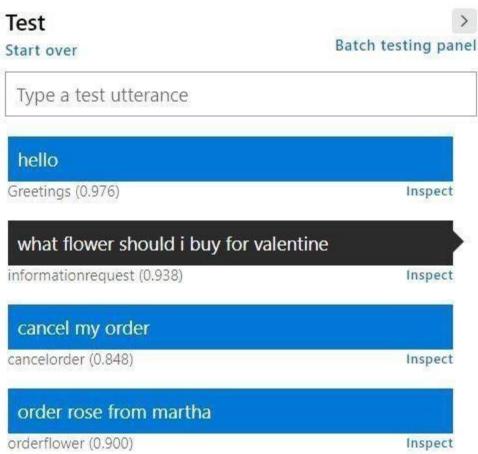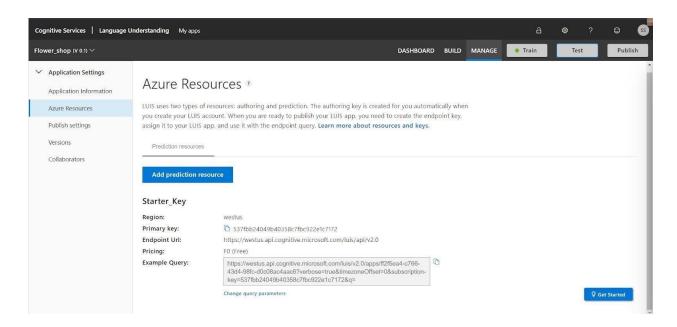# Task 7.1: Natural language processing (LUIS)

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App Assets

Intents

Entities

Prebuilt Domains

Improve app performance

Review endpoint utterances

Features

Patterns

orderflower ✎

Machine learning features ?

+ Add feature

Examples ?

✓ Confirm all entities   ⬚ Move to ∨   🗑 Delete   ⋯

🔍 ☰ View options ∨ ▽ @

Example Utterance	Score	Nearest intent	Difference
Type an example of what a user might say and hit Enter.			
good morning can u get me some daisies (flower type)	0.917	0.04 Greetings	0.88
i want to order rose (flowe...)	0.943	0.04 cancelor...	0.90
order rose from martha (order) (flowe...) (place na...)	0.918	0.03 cancelor...	0.89
can i get some rose send it to my mom ' s place for mother ' s day (order) (flowe...) (add...) (holiday)	0.969	0.03 informat...	0.94

💡 Get Started

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cancelorder ✎

● Predictions loaded   12:15 AM ✕

Machine learning features ?

+ Add feature

Examples ?

✓ Confirm all entities   ⬚ Move to ∨   🗑 Delete   ⋯

🔍 ☰ View options ∨ ▽ @

Example Utterance	Score	Nearest intent	Difference
Type an example of what a user might say and hit Enter.			
remove roses from martha ' s i ordered for christmas (cancel) (flower...) (place na...) (holiday)	0.868	0.09 orderflo...	0.78
i dont want to buy roses (cancel) (flower...)	0.932	0.05 orderflo...	0.88
cancel my order (cancel)	0.837	0.10 orderflo...	0.74
i dont want it (cancel)	0.906	0.05 Greetings	0.8

💡 Get Started

Task 7.1: Natural language processing (LUIS)

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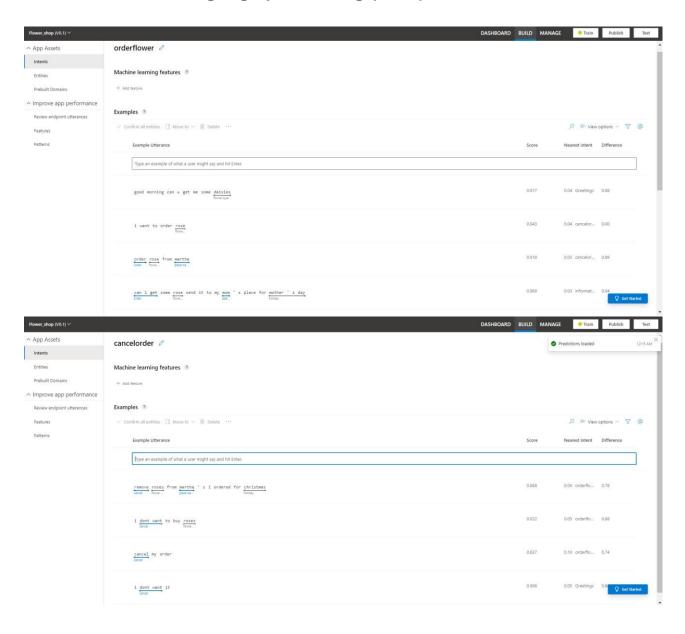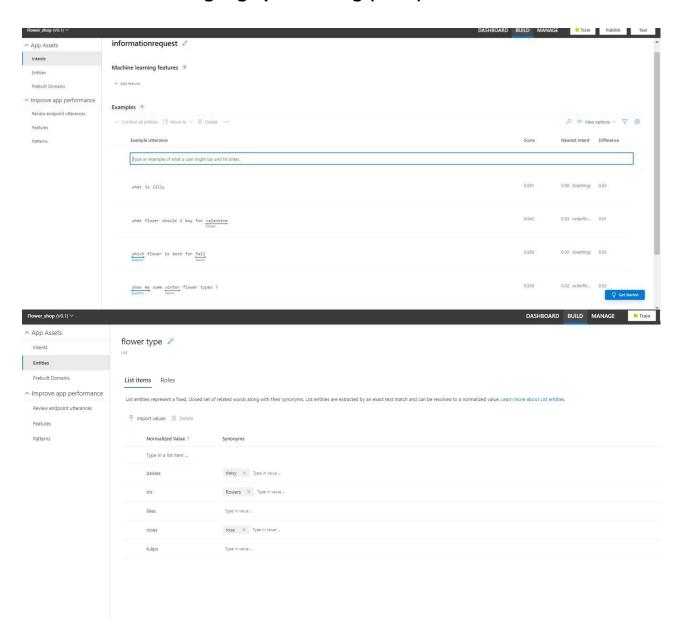# Task 7.1: Natural language processing (LUIS)

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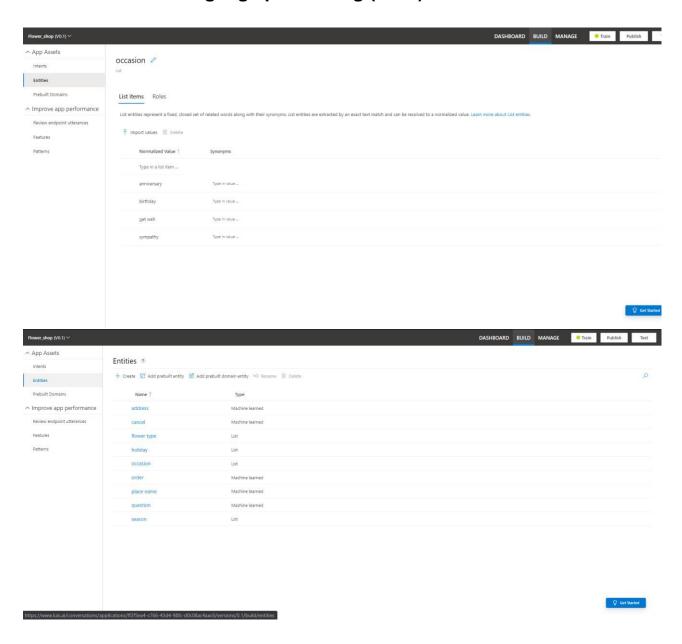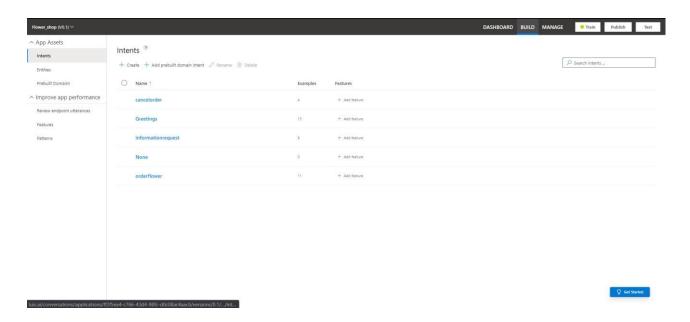
```
{
  "query": "order rose from martha",
  "topScoringIntent": {
    "intent": "orderflower",
    "score": 0.8997452
  },
  "intents": [
    {
      "intent": "orderflower",
      "score": 0.8997452
    },
    {
      "intent": "cancelorder",
      "score": 0.0503666177
    },
    {
      "intent": "Greetings",
      "score": 0.0228476878
    },
    {
      "intent": "informationrequest",
      "score": 0.00656237965
    },
    {
      "intent": "None",
      "score": 0.003881172
    }
  ],
  "entities": [
    {
      "entity": "order",
      "type": "order",
      "startIndex": 0,
      "endIndex": 4,
      "score": 0.981375158
    },
    {
      "entity": "martha",
      "type": "place name",
      "startIndex": 16,
      "endIndex": 21,
      "score": 0.9830794
    },
    {
      "entity": "rose",
      "type": "flower type",
      "startIndex": 6,
      "endIndex": 9
```

The utterances used:

Task 7.1: Natural language processing (LUIS)

1. I want daisy for thanksgiving from my bouquet send to friend's place
2. Order spring flowers
3. buy flowers for my anniversary on valentine
4. Send some summer flowers from ben ' s to home for Easter
5. Book me roses for birthday
6. I would like to order some lilies for valentine from Martha
7. Please order flowers
8. can I get some rose send it to my mom's place for mother ' s day?
9. I don't want to buy roses
10. cancel my order
11. I don't want it
12. Remove roses from Martha's I ordered for Christmas
13. Which flower is best for fall?
14. show me some winter flower types?
15. Is rose a summer flower?
16. What type of flowers should I buy for spring?
17. I want to buy rose.
18. Hello, I came to buy some lilies.
19. What kind of flowers do you sell?
20. Can u send some rose flowers for birthday?
21. I would like to buy some flowers.
22. I need flowers for Christmas
23. I want to send some rose for my anniversary.
24. Hello how are you.
25. Hi, I want to buy flowers from Martha
26. Cancel the order I want to send to home.
27. Do u have summer flowers?
28. I want to order lilies for my friend.
29. I don't want to order anymore.
30. Get me some roses and lilies for home.

Intents:
1. Cancelorder
2. Greetings
3. Informationrequest
4. Orderflower

Entities:
1. Address

Task 7.1: Natural language processing (LUIS)

2. Cancel
3. Flower type
4. Holiday
5. Occasion
6. Order
7. Place name
8. Question
9. season

Example query: https://westus.api.cognitive.microsoft.com/luis/v2.0/apps/ff2f5ea4-c766-43d4-98fcd0c08ac4aac6?staging=true&spellCheck=true&bing-spell-checksubscriptionkey=YOUR_BING_KEY_HERE&verbose=true&timezoneOffset=360&subscriptionkey=537fbb24049b40358c7fbc922e1c7172&q=

The intent of the system is to greet, order, cancel, request information of flowers from the flower shop. The entities shown above include all the different instances of a user with respect to the flower shop. The utterances given are simple sentences that I user might make use of in his conversation with respect to the flower shop.