

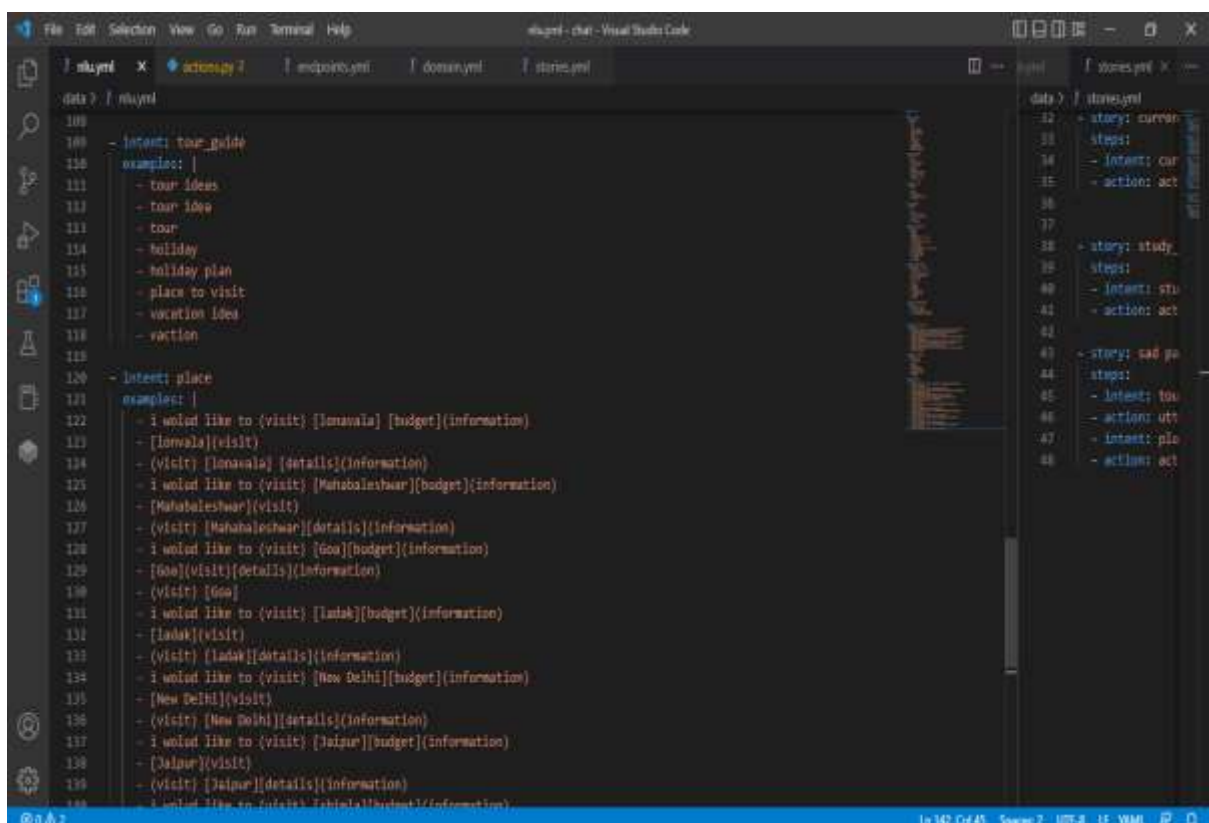
Chatbot for tour guides using RASA

Introduction:

In this project a chat bot is created using RASA because lots of people get confuse were to go for vacation or some pepole get confuse about budgets so. This tour guides you the best places for vacation with affordable price that's the moto of our project.

Codes to create bot

NLU :-



```
data > / nlu.yml
109
110 - intent: tour_guide
111   example: |
112     - tour ideas
113     - tour idee
114     - tour
115     - holiday
116     - holiday plan
117     - place to visit
118     - vacation idea
119     - vacation
120
121 - intent: place
122   example: |
123     - i would like to (visit) [lonavala] (budget)(information)
124     - [lonavala](visit)
125     - (visit) [lonavala] (details)(information)
126     - i would like to (visit) [Mahabaleshwar](budget)(information)
127     - [Mahabaleshwar](visit)
128     - (visit) [Mahabaleshwar](details)(information)
129     - i would like to (visit) [Goa](budget)(information)
130     - [Goa](visit)(details)(information)
131     - (visit) [Goa]
132     - i would like to (visit) [Ladakh](budget)(information)
133     - [Ladakh](visit)
134     - (visit) [Ladakh](details)(information)
135     - i would like to (visit) [New Delhi](budget)(information)
136     - [New Delhi](visit)
137     - (visit) [New Delhi](details)(information)
138     - i would like to (visit) [Jaipur](budget)(information)
139     - [Jaipur](visit)
140     - (visit) [Jaipur](details)(information)
141     - i would like to (visit) [Chennai](budget)(information)
```

```
data > / stories.yml
12 - story: current
13   steps:
14     - intent: car
15     - action: set
16
17 - story: study
18   steps:
19     - intent: stu
20     - action: set
21
22 - story: sad pa
23   steps:
24     - intent: tou
25     - action: utt
26     - intent: pla
27     - action: act
```

```

data > / story1
119
120 - intent: place
121
122 examples:
123 - I would like to (visit) [lonavala] (budget)(information)
124 - [lonavala](visit)
125 - (visit) [lonavala] (details)(information)
126 - I would like to (visit) [Mahabaleshwar](budget)(information)
127 - [Mahabaleshwar](visit)
128 - (visit) [Mahabaleshwar](details)(information)
129 - I would like to (visit) [Goa](budget)(information)
130 - [Goa](visit)(details)(information)
131 - (visit) [Goa]
132 - I would like to (visit) [Ladakh](budget)(information)
133 - [Ladakh](visit)
134 - (visit) [Ladakh](details)(information)
135 - I would like to (visit) [New Delhi](budget)(information)
136 - [New Delhi](visit)
137 - (visit) [New Delhi](details)(information)
138 - I would like to (visit) [Jaipur](budget)(information)
139 - [Jaipur](visit)
140 - (visit) [Jaipur](details)(information)
141 - I would like to (visit) [Shimla](budget)(information)
142 - [Shimla](visit)
143 - (visit) [Shimla](details)(information)
144
145

```

```

data > / stories.get
12 - story: current
13 steps:
14 - intent: cur
15 - action: act
16
17
18 - story: study
19 steps:
20 - intent: stu
21 - action: act
22
23
24 - story: sad go
25 steps:
26 - intent: too
27 - action: utt
28 - intent: pic
29 - action: act
30

```

Domain File:-

```

1 domain.yml
2 version: "3.1"
3
4 intents:
5 - greet
6 - goodbye
7 - affirm
8 - deny
9 - mood_great
10 - mood_unhappy
11 - bot_challenge
12 - tour_guide
13 - place
14
15 entities:
16 - information
17 - visit
18
19 actions:
20
21 - action_place
22
23
24 responses:
25 utter_greet:
26 - text: "Hey! How can I help you?"
27
28 utter_cheer_up:
29 - text: "Here is something to cheer you up:"
30   image: "https://i.imgur.com/nFr1ckg.jpg"
31
32 utter_did_that_help:
33 - text: "Did that help you?"
34

```

```

data > / domain.yml
30 - story: current
31 steps:
32 - intent: cur
33 - action: act
34
35
36 - story: study
37 steps:
38 - intent: stu
39 - action: act
40
41
42 - story: sad go
43 steps:
44 - intent: too
45 - action: utt
46 - intent: pic
47 - action: act
48

```

Actions File :-

```

actions.py - chat - Visual Studio Code
actions.py 2 X
actions > actions.py > Actionplace > run
77
78 class Actionplace(Action):
79     def name(self) -> Text:
80         return "action_place"
81
82     def run(self, dispatcher: CollectingDispatcher,
83             tracker: Tracker,
84             domain: Dict[Text, Any]) -> List[Dict[Text, Any]]:
85
86         entities=tracker.latest_message['entities']
87         visit=""
88         information=""
89
90         for entity in entities:
91             if entity['entity']=='visit':
92                 visit=entity['value']
93             if entity['entity']=='information':
94                 information=entity['value']
95         visit=visit.lower()
96         visit=visit.lower()
97         information=information.lower()
98         if visit=='lonavala':
99             if information=='budget':
100                 dispatcher.utter_message(text="budget per person nightstay is 2000rs")
101             elif information=='details':
102                 dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g986474-Activities-Lonavala_Pune_District_Maharashtra.html")
103
104             elif information=="":
105                 dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g986474-Activities-Lonavala_Pune_District_Maharashtra.html")
106
107             else:
108                 dispatcher.utter_message(text="budget per person nightstay is 2000rs and here is the places to visit https://www.tripadvisor.in/Attractions-g986474-Activities-Lonavala_Pune_District_Maharashtra.html")

```

```

actions.py - chat - Visual Studio Code
actions.py 2 X
actions > actions.py > Actionplace > run
106
107         else:
108             dispatcher.utter_message(text="budget per person nightstay is 2000rs and here is the places to visit https://www.tripadvisor.in/Attractions-g986474-Activities-Lonavala_Pune_District_Maharashtra.html")
109
110         if visit=='mahabaleshwar':
111             if information=='budget':
112                 dispatcher.utter_message(text="budget per person nightstay is 1000rs")
113             elif information=='details':
114                 dispatcher.utter_message(text="https://mahabaleshwar.net/places-to-visit-in-mahabaleshwar#:-text=Best%20places%20to%20visit%20in%20mahabaleshwar")
115
116             elif information=="":
117                 dispatcher.utter_message(text="https://mahabaleshwar.net/places-to-visit-in-mahabaleshwar#:-text=Best%20places%20to%20visit%20in%20mahabaleshwar")
118
119             else:
120                 dispatcher.utter_message(text="budget per person nightstay is 1000rs and here is the places to visit https://mahabaleshwar.net/places-to-visit-in-mahabaleshwar#:-text=Best%20places%20to%20visit%20in%20mahabaleshwar")
121
122         if visit=='Goa':
123             if information=='budget':
124                 dispatcher.utter_message(text="budget per person nightstay is 8000rs")
125             elif information=='details':
126                 dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g297984-Activities-Goa.html")
127
128             elif information=="":
129                 dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g297984-Activities-Goa.html")
130
131             else:
132                 dispatcher.utter_message(text="budget per person nightstay is 8000rs and here is the places to visit https://www.tripadvisor.in/Attractions-g297984-Activities-Goa.html")
133
134         if visit=='ladakh':
135             if information=='budget':
136                 dispatcher.utter_message(text="budget per person nightstay is 10000rs")
137             elif information=='details':
138                 dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g297984-Activities-Ladakh.html")
139
140             elif information=="":
141                 dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g297984-Activities-Ladakh.html")
142
143             else:
144                 dispatcher.utter_message(text="budget per person nightstay is 10000rs and here is the places to visit https://www.tripadvisor.in/Attractions-g297984-Activities-Ladakh.html")

```

```
actions > actions.py > Actionspace > @run
135 if information=="budget":
136     dispatcher.utter_message(text="budget per person nightstay is 10000rs")
137 elif information=="details":
138     dispatcher.utter_message(text="https://www.youthtourism.in/blog/10-best-places-to-visit-in-ladakh/#:-:text=10%20best%20places%20
139
140 elif information=="":
141     dispatcher.utter_message(text="https://www.youthtourism.in/blog/10-best-places-to-visit-in-ladakh/#:-:text=10%20best%20places%20
142
143 else:
144     dispatcher.utter_message(text="budget per person nightstay is 10000rs and here is the placeses to visit https://www.youthtourism
145
146 if visit=="New Delhi":
147     if information=="budget":
148         (variable) information: Any | literalString in nightstay is 7000rs")
149 elif information=="details":
150     dispatcher.utter_message(text="https://delhitourism.travel/places-to-visit-in-delhi")
151
152 elif information=="":
153     dispatcher.utter_message(text="https://delhitourism.travel/places-to-visit-in-delhi")
154
155 else:
156     dispatcher.utter_message(text="budget per person nightstay is 7000rs and here is the placeses to visit https://delhitourism.trave
157
158 if visit=="Jaipur":
159     if information=="budget":
160     dispatcher.utter_message(text="budget per person nightstay is 4000rs")
161 elif information=="details":
162     dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g304535-Activities-Jaipur_Jaipur_District_Rajasthan.html")
163
164 elif information=="":
165     dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g304535-Activities-Jaipur_Jaipur_District_Rajasthan.html")
166
```

```
actions > actions.py > Actionspace > @run
156     dispatcher.utter_message(text="budget per person nightstay is 7000rs and here is the placeses to visit https://delhitourism.trave
157
158 if visit=="Jaipur":
159     if information=="budget":
160     dispatcher.utter_message(text="budget per person nightstay is 4000rs")
161 elif information=="details":
162     dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g304535-Activities-Jaipur_Jaipur_District_Rajasthan.html")
163
164 elif information=="":
165     dispatcher.utter_message(text="https://www.tripadvisor.in/Attractions-g304535-Activities-Jaipur_Jaipur_District_Rajasthan.html")
166
167 else:
168     dispatcher.utter_message(text="budget per person nightstay is 4000rs and here is the placeses to visit https://www.tripadvisor.in
169
170 if visit=="Shimla":
171     if information=="budget":
172     dispatcher.utter_message(text="budget per person nightstay is 8000rs")
173 elif information=="details":
174     dispatcher.utter_message(text="https://shimlatourism.co.in/places-to-visit")
175
176 elif information=="":
177     dispatcher.utter_message(text="https://shimlatourism.co.in/places-to-visit")
178
179 else:
180     dispatcher.utter_message(text="budget per person nightstay is 8000rs and here is the placeses to visit https://shimlatourism.co.i
181
182
183
184 return []
```

Output :

```
Anaconda Prompt (Anaconda2) - rasa shell
2022-10-21 01:24:56 INFO     rasa.nlu.selectors.response_selector - Retrieval Intent parameter was left to its default value. This response selector will be trained on
training examples combining all retrieval intents.
2022-10-21 01:24:56 INFO     rasa.engine.training.nuclei - Finished training component 'ResponseSelector'.
2022-10-21 01:24:56 INFO     rasa.engine.training.nuclei - Restored component 'MemorizationPolicy' from cache.
2022-10-21 01:24:56 INFO     rasa.engine.training.nuclei - Restored component 'RulePolicy' from cache.
2022-10-21 01:24:56 INFO     rasa.engine.training.nuclei - Restored component 'TEDPolicy' from cache.
2022-10-21 01:24:56 INFO     rasa.engine.training.nuclei - Restored component 'UnexpectedIntentPolicy' from cache.
Your Rasa model is trained and saved at 'models\20221021-012227-hushed-kapok.tar.gz'.

(riztu) C:\Users\ADMIN\chatirasa shell
C:\Users\ADMIN\conda\envs\riztu\lib\site-packages\matplotlib\__init__.py:169: DeprecationWarning: distutils Version classes are deprecated. Use packaging.version inste
ad.
  if LooseVersion(module.__version__) < minver:
C:\Users\ADMIN\conda\envs\riztu\lib\site-packages\setuptools\distutils\version.py:346: DeprecationWarning: distutils Version classes are deprecated. Use packaging.ver
sion instead.
  other = LooseVersion(other)
C:\Users\ADMIN\conda\envs\riztu\lib\site-packages\tensorflow_addons\utils\ensure_tf_install.py:47: DeprecationWarning: distutils Version classes are deprecated. Use pa
ckaging.version instead.
  min_version = LooseVersion(INCLUSIVE_MIN_TF_VERSION)
C:\Users\ADMIN\conda\envs\riztu\lib\site-packages\sanic\cors\extension.py:39: DeprecationWarning: distutils Version classes are deprecated. Use packaging.version inste
ad.
  SANIC_VERSION = LooseVersion(sanic_version)
2022-10-21 01:25:44 INFO     rasa - Connecting to channel 'cadline' which was specified by the '--connector' argument. Any other channels will be ignored. To connect t
o all given channels, omit the '--connector' argument.
2022-10-21 01:25:44 INFO     rasa - Starting Rasa server on http://0.0.0.0:5005
2022-10-21 01:25:46 INFO     rasa.core.processor - Loading model models\20221021-012227-hushed-kapok.tar.gz...
2022-10-21 01:27:09 WARNING rasa.channels.utils.common - The Unexpected Intent Policy is currently experimental and might change or be removed in the future. Please s
hare your feedback on it in the forum (https://forum.rasa.com) to help us make this feature ready for production.
2022-10-21 01:27:27 INFO     rasa - Rasa server is up and running.
Bot loaded. Type a message and press enter (use '/stop' to exit):
your input -> shilpa
https://www.tripadvisor.in/Attractions-g606474-Activities-linavala_Pune_District_Maharashtra.html
your input -> ladak budget
budget per person nightstay is 3000rs
your input -> gao information
https://www.tripadvisor.in/Attractions-g606474-Activities-linavala_Pune_District_Maharashtra.html
your input -> jalpur details
https://www.tripadvisor.in/Attractions-g606474-Activities-linavala_Pune_District_Maharashtra.html
your input ->
```