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Brief write up on flow:

Flow:

- is a representation of conversation between bot & user
- is represented in the form of dialogs
- each dialog is represented by a node
- will have collection of nodes
- will have a purpose, probably an intent to perform
- will look like a graph

Attributes of a flow:

• id:

an unique identifier, usually UUID, automatically generated by the author tool

• name:

friendly name which signifies the purpose, given by author

• nodes

an array of individual node(s)

Node:

- each node represents a dialog either from bot or user
- will have a purpose, either to show to user or take input from user or do some processing
- each node may have one or more paths leading to other nodes

Attributes of a node:

• id:

an unique identifier(with in the flow) to identify a node, automatically generated by author tool

• name:

friendly name which signifies the purpose of this node, given by author

• type:

purpose of this node (eg., root, message, choice, question, card, process and end), given by author

• subtype:

will have more information regarding the type of the node, given by author

• msg:

a message which need to be shown to user (or an array of messages from which randomly a message need to be picked), given by author

• fieldId:

an entity, the value for which user has to provide, which later will be used while performing the intent, given by author

formld

an identifier which represents a form, on which logically related fields will serve a purpose, given by author

• Connections:

possible paths that lead to other nodes after executing current node, given by author

Connection:

• a single path that lead to another node in the flow after executing current node, given by author

Attributes of a Connection :

• default:

which indicates where to move next, given by author

• If:

which indicates where to move next, provided a condition is satisfied, given by author

• name:

 $\ensuremath{\mathsf{human}}$ readable or understandable name given for the connection

• isButton:

which states whether this connection need to be shown to user in the form of a button, so that user can click it to proceed further in that path

Attributes of a If:

pre

which indicates that there is a pre-condition that need to be evaluated first, if this condition is successful only then the "if" condition will be evaluated, given by author

• op

an operator (for eg., logical or something completely new which represents an operation), given by author

• value:

a value(s) to which comparison need to happen, given by author

• context:

which signifies about what context this check need to be done, given by author. for eg., "sentimentAnalysis" is used to check the sentiment analysis value and take decision.

• then:

which indicates where to move next on satisfying the condition, given by author

Attributes of a Pre:

• varname:

which signifies the variable name ie., a field id, given by author

• op:

an operator (for eg., logical or something completely new which represents an operation), given by author

• value:

a value(s) to which comparison need to happen, given by author

eg., of default in json:

```
"default": "ffb8"
```

eg., of if in json:

```
{
  "context": "",
  "op": "eq",
  "value": [
  "green"
],
  "then": "8193"
}
{
  "context": "sentimentAnalysis",
  "op": "eq",
  "value": [
  "-4"
],
  "then": "7ebe"
```

eg., of if with pre in json:

```
"context": "userInput",
"op": "pattern",
"value": [
    """
],
"pre": {
    "varName": "bookingId",
    "op": "eq",
    "value": "null"
},
"then": "e41c"
}
```

eg., of connection in json:

```
{
   "if": {
      "context": "userInput",
      "op": "pattern",
      "value": [
      "*"
    },
    "pre": {
      "varName": "bookingId",
      "op": "eq",
      "value": "null"
   },
    "then": "e41c"
}
```

Types of nodes:

• root:

• message:

purpose is to show user a message

• choice:

purpose is to ask user a question with possible choices to choose from

• card:

purpose is to show user some content, probably text or media (image, audio or video)

• process:

purpose is to do some processing in the background, for eg., lets assume the purpose of a flow is to ask few questions to user, take answers and send its findings via an ema:

• flowld:

purpose is to inform that its time to execute another flow

• end:

purpose is to say end of flow, but this node itself doesn't exist in the flow, hence will not have any attributes

eg., of node - root in json:

eg., of node - message in json:

eg., of node - choice in json:

```
"id": "304e",
"type": "choice",
"subType": "text",
"name": "",
"msgo": [
"Please choose one"
],
"data": [
"black",
"green",
"white"
],
"connections": [
"if": {
"context": "",
"op": "eq",
"value": [
"green"
],
"then": "8193"
```

```
},

"if": {
    "context": "",
    "op": "eq",
    "white"
    ],
    "then": "01le"
    }
},

"if": {
    "context": "",
    "op": "eq",
    "value": {
    "black"
    ],
    "then": "287e"
    }
},

"if": {
    "context": "",
    "op": "eq",
    "value": {
    "no"
    ],
    "then": "599e"
    }
},

"default": "end"
}
```

eg., of node - card in json:

eg., of node - process in json:

```
"id": "e342",
"type": "process",
"subType": "sendEmail",
"name": "",
"msg": [
    "Thanks!"
],
"info": {
    "recipient": "kiran@example.io,johnm@example.io,nicolas@example.io",
    "subject": "email subject",
    "body": "This is the form:",
    "formId": "formI"
},
"connections": [
    "default": "end"
}
```

eg., of node - flowId in json:

eg., of *flow* in json:

```
"connections": [
                                                                 {
    "default": "dd9b"
                                      },
                                                   "type": "message",
"subType": "text",
"name": "",
"msg": [
  "do you want to see a video, form or buttons?"
                                                    "id": "dd9b",
"connections": [
                                                        connec.
{
   "if": {
      "context": "",
      "op": "eq",
      "value": [
      "button"
      "
      "context": "",
      "co
                                                                                                ],
"then": "Oelf"
                                                                     },
{
                                                                                "if": {
    "context": "",
    "op": "eq",
    "value": [
        "form"
                                                                                                ],
"then": "d060"
                                                                   },
                                                                              "if": {
    "context": "",
    "op": "eq",
    "value": [
        "video"
    ,
                                                                                                ],
"then": "7392"
                                                                                 "default": "end"
                                      },
                                                   "type": "card",
"subType": "video",
"name": "",
"msg": [
    "here is the video"
                       "msg".
    "here is the v_
],
"info": {
    "type": "video",
    "title": "video title",
    "subtitle": "video subtitle",
    "info": {
        "image_uri": "http://example.com/cdkydjg.jpg",
        "media_uri": "http://example.com/demos/sample-videos/small.mp4",
        "profile": "hd",
        "aspect": "4:3",
        "autoloop": true,
        "autoloop": true,
        "mute": false,
        "controls": true,
        "alt_text": ""
}
                                                    ]
                                         },
{
                                                 "type": "flowId",
"name": "",
"msg": [],
"flowId": 70,
"id": "d060",
"connections": [
                                                                 {
    "default": "end"
                                                                     }
                                                   }
                                                                                 "default": "end"
```