Chat bot DB schema

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* Database
  + MongoDB

(對text有大小寫之分，因此命名皆以小寫為主)

* Database name
  + bot
* Table name (Collection name)
  + QAKset
  + keyword\_data
  + statistic\_data
* Schema
  + question\_table

|  |  |  |
| --- | --- | --- |
| Name | Value type | Note |
| Question | Text | Original question |
| question\_num | num | Question serial num |
| keyword\_list | List of text | Keywords find from question using Jieba |
| num\_of\_keyword | num | #(keyword\_list) |
| handle\_code | num | “None” for general QA, others for sensor related QA  (ex: “WEATHER”) |
| type | text | “general”, “sensor” for QA type |
| call (optional) | Text | The function to call (return answer) |

* + answer\_table (for general QA)

|  |  |  |
| --- | --- | --- |
| Name | Value type | Note |
| question\_num | num | Question serial num |
| answer | Text | Original answer |

* + handle\_table (for sensor related QA)

|  |  |  |
| --- | --- | --- |
| Name | Value type | Note |
| handle\_code | num | For serial num of sensor related QA  (0 for general QA, should not exist here) |
| answer\_code | num | Answer serial num |
| A\_template | Text | Answer template for the answer\_code by the handle\_code |

* + keyword\_data

|  |  |  |
| --- | --- | --- |
| Name | Value type | Note |
| keyword | Text | All keywords in the QAset |
| frequency | num | Number of times the keyword appears |
| prob | num |  |
| Weight\_prob | num | 1-prob |
| Weight\_exp | num | Power(e,(2(1-prob)) |

* + statistic\_data

|  |  |  |
| --- | --- | --- |
| Name | Value type | Note |
| name | Text | Any information to save |
| value | Num | The value of the information |

* The information now:
  + num\_of\_questions
  + num\_of\_frequency
  + num\_of\_keywords
  + button\_table

|  |  |  |
| --- | --- | --- |
| Name | Value type | Note |
| question\_num | num | Question serial num |
| button\_list | button | button = {  “title” : button\_title,  “payload” : “quick\_reply TAG” |