Testing

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| Test Number | Purpose | Test data | Expected Result | Result |
| 1 | Test if the JSON file is sent when a message is sent by the user | I will use the message “Hello World!” | A JSON file transferred to my program. |  |
| 2 | Extraction of the message from the JSON file. | I will use the message “Hello World!” | The message should be extracted from the JSON file |  |
| 3 | Test if an image is rejected by the program | I will send an image to the program | A message outputted telling the user that images are not supported. |  |
| 4 | Test the /help command in the chat. | I will use this message “/help” | A list of other commands and information displayed to the user. |  |
| 5 | Test the /start command in the chat | I will use this message “/start” | A welcome message should be shown. |  |
| 6 | Message is successfully stored in the ‘message’ text file. | I will use the message “Hello World!” | Message stored as a string in the text file |  |
| 7 | Message is successfully stored in the ‘dissectedmessage’ text file. | I will use the message “Hello World!” | Message stored by having one word per line and no punctuation. |  |
| 8 | Relevance extracted from a message. | I will use the message “Hello World!” | Relevance should be stored away in the 2d array. |  |
| 9 | A link should be selected for the most relevant topic. | I will use the message “Hello World!” | A link for the best topic should be selected. |  |
| 10 | If there isn’t any relevant topic, the failure message should be selected | I will use the message “asdfg” | The failure message should be selected. |  |
| 11 | Link to be displayed to the user. | A link from the sources database | The link should be shown to the user in Telegram. |  |
| 12 | Send multiple messages in a row. | I will use the message “Hello World!” and then another random message | The program should handle both without stopping. |  |
| 13 | Calculate the relevance of the databases | The primary and secondary databases. | Relevance calculated and stored for every word. |  |
| 14 | Introduce the topic of the training data | The topic name “AI” | Program should detect that the AI topic is being used. |  |
| 15 | Train the database with some new training material. | I will use the AI documentation. | Database should be improved by having more content. |  |
| 16 | All the stats are calculated accurately. | Primary and secondary database | All the stats should be accurate. |  |