**Therabot Backend Test Plan**

Overview:

As our team is primarily backend focused, much of our testing will revolve around verifying the functionality of specific backend functions. These can include features such as user authentication, catching server errors, and any other feature that users cannot directly see. Passing these tests guarantees that our backend is fully functional and adaptable to any frontend.

Approach:

Our tests will be set up in separate test.js files that can be run from the console at any time by a developer. The idea here is that developers will be able to write their own tests and verify their code’s functionality immediately after writing it. The tests will each focus on a single backend feature that can be disconnected from the others. This way, failure of one test would not guarantee failure of the others. The only exception to this is the initial server test that verifies that the server is properly set up. If this fails, the testing program will not run the other tests.

Test Cases:

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Description | Input | Expected Output |
| 1 | Get all users messages in a JSON string | request(server) | 200 |
| 2 | Save message to database | post(message) = “This is a test.” | 200 |
| 3 | Return error for empty JSON input | post(message) | 500 |
| 4 | Test if server is linked and set up | index.js | Results of other tests |
| 5 | Verify accurate scoring of emotions. | list = [1,3,5,2] | result = [5,2] |