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| **Bas World Chat Bot** |
| Test Plan |
| This document is created to define the test strategy. Below the answer of why, what, and how we want to test |
| * Code of Duty |

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## Testing Methods;

### 1- Unit Test

### 2- Integration Test

### 3-Acceptance Test

### 1-Unit Test

#### Why should we use unit test?

The reason to use unit test is to be sure that every tiny part of our application is working as it suppose to. Modern software solutions are big, and they are continuously changing. With a proper system test you can define if there is a problem with your app but define the problem is totally different issue. It can be caused by anything. Using an acceptable coverage all of the problems can be found almost immediately.

#### What are we testing?

How high coverage how better test. But in the real world it can be unrealistic to cover everything. While there is no standard for unit testing, one number often cited in the testing world is 80%. "Eighty percent is what I usually see as the gating standard for code coverage in corporate shops," said Tim Ottinger, a senior consultant at Industrial Logic. "Any higher or lower than that is unusual." (What unit test coverage percentage should teams aim for?, 2021).

#### How should we test?

Since there are other ways, using a a mocking framework like Mockito is always a smart choose. It makes testing easy safe and also thanks to the inbuild support functionalities it is faster than mocking the dependencies by hand.

### 2-Integration Test

#### Why should we use integration test?

Integration test make developers sure that all the integrated part of the code functions properly. That way it gives better insight to the developers that everything is in operation.

#### What are we testing?

Integration testing (sometimes called integration and testing, abbreviated I&T) is the phase in software testing in which individual software modules are combined and tested as a group. Integration testing is conducted to evaluate the compliance of a system or component with specified functional requirements ( Integration testing, 2021).

#### How should we test?

It is basically check the data flow between dependent modules. Unlike the unit test data flow between dependencies should be controlled

### 3- User Acceptance Test

#### Why should we use System test?

The main purpose of the system test to be end to end user interaction scenarios

#### How should we test?

It should be done by human testers. That’s because it consumes a lot of time

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| Id | | Test Description | Test Steps | | Expected Result | Pre-Requested Condition |
| 1 | Login the website to do certain operations | | | Open the website,  Click “Log In” button on the top,  Type “jl@mail.com” for username,  Type “1234” | Redirect to main page and navigation bar changed (Instead of Login and signup, administration and logout buttons appear) | A user account |
| 2 | Logout | | | Open the website,  Login the website (using test with id:1)  Click Logout button on the top, | Redirect to main page and navigation bar changed (Instead of administration and logout, Login and signup buttons appear) | User should be login |
| 3 | SignUp | | | Open website,  Click “Signup” on the navbar,  Fill all required credentials,  Press “Submit” button | Redirect to main page and navigation bar changed (Instead of Login and signup, administration and logout buttons appear) | A user account |
| 4 | Start Chat without an account | | | Open website,  Click “Start Chat” button at the right bottom corner, | User see an greeting message in the chat component saying” Hello Guest! My name is Bassy the chat bot! How can I be helpful today?.” | None |
| 5 | Start Chat with an account | | | Open website,  Login with personal account (using test with id:1) | User see an greeting message in the chat component saying” Hello {Username} My name is Bassy the chat bot! How can I be helpful today?” | A User Account |
| 6 | Open Administration Page | | | Open website,  Login with personal account (using test with id:1)  Click “Administration” button at the left top corner of the page | Redirect to administration panel | User should be login |
| 7 | Rate the chatbot | | | Open website,  Click “Start Chat” button at the right bottom corner,  After you finish the chat select 1 to 5 stars to rate the quality of the conversation  Press submit button | Rate and if there is a feedback message are saved in the system | None |