User Testing Questionnaire

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| Module Code | AC40001 |
| Module Name | Individual Project |
| Researcher | Gerardo Blanco Bernal |
| Participant No. | 7 |

By ticking the box bellow, you hereby give consent for the researcher to use the data gathered in this user testing session and questionnaire for research and feedback purposes. No private information will be stored.

☐ Yes, I give consent. If I later decide to withdraw from the participation, the gathered feedback will be discarded and no information about me will be withheld.



# Test User Questions

1. Create a bot on Telegram and input your Bot API token using the buttons. Are the buttons responsive?

☐ Yes



☐ No

If No, please explain any issues you may have encountered:

1. Once entered your bot token correctly, a welcome screen shows up on the display. Rate the difficulty of the first time ChatBot setup.

☐ 1 (Very Easy)

☐ 2 (Easy)



☐ 3 (Moderate)

☐ 4 (Hard)

☐ 5 (Very Hard)

1. Did you have any problems performing the first-time setup?

☐ Yes

☐ No



If Yes, please explain any issues you may have encountered:

1. Send the ChatBot a greeting message. Do you receive a reply?

☐ Yes



☐ No

If No, please explain what you can see:

1. Ask the ChatBot for help using the ‘/help’ command. What do you see?

The chatbot gives me instructions of which commands I can use with it

1. Have both messages been replied to in a logical manner?

☐ Yes



☐ No

If No, please explain what you can see:

1. Please ask the ChatBot for the temperature of the greenhouse. What do you see?

The chatbot gives me the internal and external temperature of the greenhouse



1. Do the temperatures seem logical?

☐ Yes



☐ No

If No, please explain why:

1. Using the weed plants that the researcher has given you, place them in front of the camera. Have you received a notification?

☐ Yes



☐ No

If No, please explain what you see:

1. Refresh your memory of the ChatBot functionality by asking for help, this time don’t use the ‘/help’ command. What do you see?

I am given the same instructions that were provided when I used the ‘/help’ command

1. Turn on the irrigation. Did anything happen?

☐ Yes

☐ No



Please explain what happened:

Nothing happened as the chatbot said that the soil was not dry

1. Turn off the irrigation. Did anything happen?

☐ Yes

☐ No



Please explain what happened:

Nothing happened since the irrigation was not on in the first place

1. If the window is open, ask the chatbot to close it, otherwise ask it to open it. Did anything happen?

☐ Yes



☐ No

Please explain what happened:

The chatbot said that the window would now close. After a few seconds it started closing automatically

1. Ask the ChatBot when the last time the irrigation was used. Does the time correspond to when it was last activated?

☐ Yes



☐ No

Please explain what happened:

The time corresponds to when it was last activated which seems to be before I started using it.

1. Ask the ChatBot for the last time the ventilation window was used. Does the time correspond to when it was last opened?

☐ Yes



☐ No

Please explain what happened:

The time corresponds to when I asked it to close the window

Thank you for completing the questionnaire. Please take some time to answer the optional questions below.

Optional Question: Can you think of any other products that resemble this one? If yes, what products?

I know that there are water timers that can be used to water plants in intervals, but they take a lot of trial and error to get the perfect timing right. This system seems to make it easier by taking out the guesswork

Optional Question: Was the overall experience straightforward, did you encounter any issues?

I thought the chatbot was very easy to setup and use. It is simple and straightforward as it should be

Optional Question: Were there any features of the prototype that seemed redundant? If so, which ones?

No, it made good use of all the features it has.

Optional Question: Which features do you feel that the prototype was lacking?

Since the system aims to automate most procedures, it could maybe also detect when the crops have ripened using the same camera it uses for the weeds.

Optional Question: Which device would you use for this product ?

I would use my mobile phone.