User Testing Questionnaire

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| Module Code | AC40001 |
| Module Name | Individual Project |
| Researcher | Gerardo Blanco Bernal |
| Participant No. | 4 |

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?

A list of commands it accepts

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?

Two temperatures, on is the internal temperature of the greenhouse, the other is the external



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?

The same message detailing the commands that the system can process

1. Turn on the irrigation. Did anything happen?

☐ Yes



☐ No

Please explain what happened:

The chatbot said that the irrigation was going to be turned on as the soil was dry. The water pump then turned on and the greenhouse irrigation came on

1. Turn off the irrigation. Did anything happen?

☐ Yes

☐ No



Please explain what happened:

The chatbot said that the plants were still too dry to turn the irrigation off

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 windows could not be closed yet as the internal temperature was not low enough

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 it says the irrigation was used correlates to when I asked the chatbot to activate 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 it says the window was last used was before I started testing the system, this must be correct as it was already open when I began testing it.

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?

Not that I am aware of. I have seen timer valves which let you set a fixed irrigation cycle, but none that came with an automated ventilation and weed detection system.

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

I did not encounter any issues, the system was intuitive to use.

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

I think all features are useful within reason. It would not be worth discarding any features.

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

It would be nice if you could control several different greenhouses/ environments with plants that have vastly different needs, this way I could grow summer crops at the same time as I could grow winter ones.

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

I would probably use my mobile phone.