**F28ED Technical Specifications Template**

**Group number: 204**

1. **Goals and Objectives**

What do you want to get out of the experiment? What hypothesis are you testing (please write out your hypothesis clearly as a statement)?

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| The goal of this chatbot is a self-service UI that is available 24/7 to guide confused users to the most applicable choice that will fill their requirements.  The hypothesis of this project is that one Bot will be more interactive to use than the other. |

1. **Participants**

Who would you ideally want to test on? Who is your target user?

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| This chatbot is aimed at users who depend on using laptops for work, studies, gaming or communication. Specially college or university students that will use laptops for studying or attending online classes.  The target users of this chatbot are professional/technological computer programmers, youth or gamers which is the young generation. |

1. **Experiment Design**
   1. What are your conditions? How many will you have? In almost all cases, the answer will be two. If your hypothesis requires more than two conditions to test, please seek approval from the course instructors before submitting your experiment plan.

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| We will be having only two conditions in our chatbot, that will meet our hypothesis.  The first condition is that the chatbot will be more interactive. In this condition, users will interact with buttons, images, and other graphical characteristics. In this condition, users will also be asked more questions about their requirements. Another feature that will be observed in this condition is that the users will receive more information on the laptops.  The second condition is that the chatbot will be less interactive. This means users will interact using text. This also means that the participants will be given limited questions and limited information about the various categories of laptops. |

* 1. Is your experiment between-subject or within-subject?

*[Within-subject = one subject, two conditions;*

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| Our experiment is between-subject because one user will be exposed to only one interface (one condition). |

* 1. What are your independent and dependent variables?

*[Independent variable = what you manipulate.*

*Dependent variable = what you are testing to see if it changes.]*

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| Our independent variable will be the input methods used, which could either be text based or buttons (Quantitative & Subjective). Another variable is the information provided to the user regarding the laptops. (Quantitative & Subjective)  However, the dependent variable that we will measure is the perceived friendliness and the general opinion on the easiness of the bot as measured and collected by our questionnaire. (Quantitative & Subjective) |

* 1. Randomization and ordering. How will you assign a subject to a condition? Think about what order you will give the subjects each condition. Why are you doing this?

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| In our experiment, each subject will be assigned a condition alternatively. By doing so, almost equal number of subjects will be experimenting both condition which will help in getting balanced data for both the conditions. |

* 1. Is your experiment a controlled experiment- is there anything you need to think about that might influence the results? Is everything else the same? What are the confounding variables?

*[Confounding variable = a variable that can influence your dependent variable and affect the results.]*

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| One of the confounding variables that we have measured is the prior use of a similar bot which was collected by the pre-questionnaire. |

* 1. What **types** of questionnaires/surveys will you give to the users and **when**? Provide the actual questionnaires in the separate Essay Box in the quiz.

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| The type of questions that we will use in our questionnaire are non-leading, closed, and clear specific questions.  The questionnaires that we are providing are going to be pre and post questionnaires. The pre-questionnaires provide information regarding the user's previous experiences with laptops. However, the post-questionnaire provides feedback after the user interacts with the chatbot. |

1. **Metrics**

What metrics will you collect? For each, list whether they are quantitative or qualitative; and objective or subjective.

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| We will be collecting various metrics for the analysis. One of which is the interactivity of the bot, which is quantitative and objective. Another metric that will be used is the easiness in using the bot, users' satisfaction with the results, and the overall experience of user which will be quantitative subjective. And the last one is the user's suggestion for improvement and it will be qualitative subjective. |

1. **Ethics:** is your experiment ethical? Does it place subjects in a difficult position or make them feel bad? Is deception involved (if so, describe how you will debrief participants)?

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| Yes, it is ethical. Participation is voluntary and participants can withdraw at any time.  There will be no pressure to participate.  We will not be collecting personal data nor sharing any data. It will also not be involving deception. |

1. **Analysis**

What statistics will you do? Will you do descriptive and/or inferential stats? You must perform a statistical test to evaluate your hypothesis, but you may report on other statistics of interest.

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| We will be using descriptive statistics and inferential statistics in our project. The inferential statistical test is done to ensure whether the null hypothesis is accepted or rejected. The descriptive statistics we will be doing on our data is mode or median. |