

Student Post-Intervention Survey

Please take your time to answer these questions about the ExtenDT2 project that you have been working on in your team.

In this survey you will be asked some questions about yourself, what you have learned and about your experiences during the project.

If you do not understand a question, please tell the researcher or your teacher.

You may skip any question you do not want to answer.

About You

1. What is your student number? (If you have forgotten it, please write your name and we will replace it as soon as the survey has ended)

- 2.

3. I am:
 - Male
 - Female
 - Other / prefer not to say

4. How old are you?

5. Which country do you live in?

6. What language(s) do you speak at home? (tick all that apply)
 - [Local language 1]
 - Local language 2
 - English
 - Other (please state)

About your project

Think about the ExtenDT2 project that you have been working on and answer the following questions

1. Which of the following digital tools did your team use? (tick all that apply)

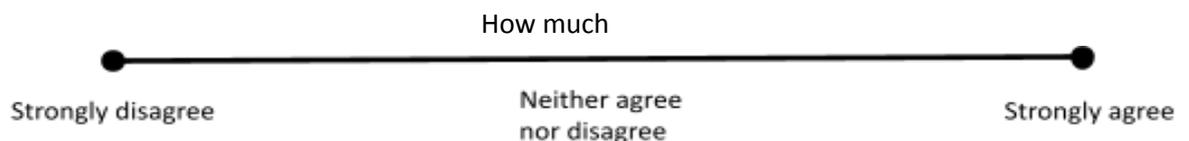
- | | |
|--|---|
| <input type="checkbox"/> ChoiCo | <input type="checkbox"/> SorBET |
| <input type="checkbox"/> MaLT2 | <input type="checkbox"/> Virtual robotics |
| <input type="checkbox"/> nQuire for students | |

2. What were the advantages of using digital tools? (tick all that apply)

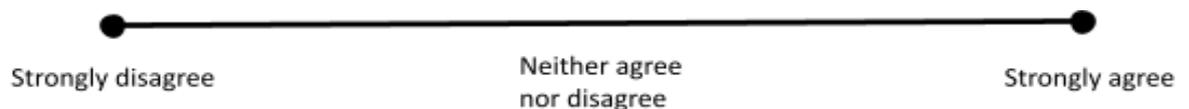
- It was easy to use
- The digital tools made it easier to find out the views of lots of people
- It was quick to create a survey
- It was quick to create a working prototype/solution
- It was easy to make changes to the prototype/solution
- It was easy to share what we had created with others
- I learned new skills
- It was fun
- Other (please state)

3. What were the challenges when using digital tools? (tick all that apply)

- It was difficult to use
- There were technical problems/bugs
- Not everyone got a chance to use the digital tools
- It took too long to create a survey
- It took too long to create a prototype/solution
- It was difficult to make changes to the prototype/solution
- It was difficult to share what we had created with others
- Other (please state)



I am confident in my ability to use the tools to change and adapt my solution



During the project I...

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
Felt frustrated not knowing what to do					
Felt frustrated using the digital tools					
Found it difficult to think of ideas					
Feel my team did not work well together					
Did not like redesigning the solution					
Felt other people did not listen to me					
Got feedback on my ideas from my peers or teacher					
Got feedback on how to work as a team					
Had a good idea of what I was expected to do					
Found it difficult to organise my time					
Had time to think about what I was doing and how I could do it better					
Had time to assess the quality of our work before it was completed					
Found it difficult to do everything in the time available					

What did you learn?

1. List 3 skills you have developed during the project
2. What have you learned about that you didn't know before?

How much did the ExtenDT2 project teach you about _____ :

	Nothing (1)	(2)	(3)	(4)	A lot (5)
Figuring out what the problem is					
Consider different Compare and contrast possible solutions to a problem and identify their advantages and disadvantages					
Making decisions about how to best solve a problem					
Recognising potential obstacles or roadblocks to solving problems					
Paying attention to many details					
Focusing your team's thinking					
Examining alternative solutions in terms of resources, materials, costs and time limits					
Performing quickly under pressure					
Solving problems even when conditions become difficult					
Showing appreciation for the skills and talents of others					
Helping others highlight their unique talents and strengths					
Resolving conflicts with others in a positive way					
Helping my team to reach an agreement					

Your Skills

Think back to how you felt at the beginning of the project. Now you have completed your ExtenDT2 project, are you more or less confident to _____ (1= a lot less confident; 3= about the same; 5= a lot more confident)

Topic: Working with others

1. Work in pairs or small groups to complete a task together
2. Work with other students to set goals and create a plan for your team
3. Create joint products using contributions from each student

Topic: Communicating

1. Communicate your ideas using media other than a written paper (e.g. posters, videos, blogs, etc.)
2. Prepare and deliver an oral presentation to the teacher and others
3. Answer questions in front of an audience

Topic: Being creative

1. Test out different ideas and work to improve them
2. Invent a solution to difficult problems
3. Create something new that can help you express your ideas

Managing myself

1. Track your own progress and change things if you are not working the way that you should be to complete a task
2. Assess the quality of your work before it is completed
3. Use peer, teacher or expert feedback to change your work

Managing information and thinking

1. Try to solve problems or answer questions that have no single correct solution or answer
2. Draw your own ideas based on analysis of numbers, facts or relevant information
3. Analyse different arguments, perspectives or solutions to a problem,

Using technology for educational purposes

1. Use technology to work in a team (e.g. shared work spaces, email exchanges, giving and receiving feedback, etc)
2. Use technology to keep track of your work on assignments
3. Use technology to help to share information (e.g. multimedia presentations using sound and/or video, presentation software, blogs, etc)

Your skills (continued)

How much do you agree with these statements?

By working on the ExtenDT2 project, I became better at _____

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
Managing my time effectively					
Listening to other people when they present opinions contrary to my own					
Listening to opinions that differ from my own before making decisions					
Asking questions to help me understand other people					
Helping my peers understand my ideas					
Listening to what people say when they come up with a new idea					
Actively listening to someone instead of planning what I will say next					

Design Thinking

How much do you agree with these statements? (1= strongly disagree; 5= strongly agree)

By working on the ExtenDT2 project, I became better at _____:

Empathy

1. Imagining the users' feelings
2. Considering how someone might use what I plan to create
3. Understanding the needs of the users

Define

1. Identifying the challenges to address
2. Clarifying the problems that must be solved
3. Seeing the gap between the current situation and the goal;
4. Identifying the criteria for success
5. Identifying the goal to achieve

Ideate

1. Generating solutions via brainstorming
2. Coming up with various solutions
3. Coming up with innovative solutions
4. Coming up with new solutions
5. Thinking of different problem-solving approaches

Prototype & Iterate

1. Making a model of the design
2. Drawing a picture of the design
3. Providing an example for showing an idea
4. Presenting an idea by assembling objects
5. Designing a preliminary model
6. Adding to my work to make it better

Feedback & Respond

1. Giving and receiving feedback - prototype
2. Making changes to my solution based on feedback

Total 113 (/8=14; /5.5=20.5)