Graded Case Study

Digital Ethics Canvas in the context of real-world technologies

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Expected format for your submission:

- Use the **template** that we provide (see page 3 + separate Word document).
- Indicate the **names** of the members of your group on your submission.
- Your text should be **typed**, not handwritten.
- You must work in **groups** of three. Each member must contribute **fairly**. Your submission should reflect collaborative reasoning.
- Use the **"Graded Case" assignment on moodle** to submit your work as a **PDF file**.
  We expect one submission per group. You can update and modify your submission as many times as you want before the deadline - do not wait until the last minute to submit!

Task

The goal of this case study is to apply the **Digital Ethics Canvas** to a **real-world product**.

Your **group** should select **one of the real-world software products listed below** then follow the instructions that we provide to apply the Digital Ethics Canvas strategy.

We provide an indicative length for each expected item, keep your answers concise while **making your reasoning explicit** and **stating any hypothesis or assumption** that you may have to make. We are not expecting you to *guess* the exact real world risks and measures for the product you choose, but instead to come up with an **analysis** that is as **plausible** and **realistic** as possible.

Products

Select one product among the choices below:

Neon:

- Neon's website
- Mashable article about Neon

Neuralink:

- Neuralink's website
- Decrypt article about Neuralink

Walletmor:

- Walletmor's website
- BBC's article about Walletmor

Sora:

- Sora's website
- npr's article about Sora

Instructions:

Use the template that we provide (see page 3 + separate Word document) and follow these steps:

1. **Describe briefly:**
   - **The solution (2-3 sentences):** Briefly describe the software product you have chosen. What services/features does it offer? How does it work?
   - **The context (2-3 sentences):** Who develops the software? Who uses it? Which other stakeholders are concerned?

2. **Evaluate the benefits:**
   - Then **list 3 expected benefits** (1 sentence each).

3. **Evaluate the risks:**
   A. Identify **potential risks** using the five ethical lenses: describe each risk you identify (1-2 sentences each).
   We do not require you to absolutely find a risk in each ethical lens of the canvas.
   However, you should obtain **between 5 and 15 risks in total in your evaluation**.

   B. **For each of the risks you identified, assess its level** by evaluating:
      - The **probability** of occurrence (low/ mid/ high) + 1 sentence justification.
      - The **severity** of impacts (low/ mid/ high) + 1 sentence justification.
      - Then determine the **overall level of risk** (low/ mid/ high) using the risk matrix from the cheatsheet:

Probability \ Severity	**low**	**mid**	**high**
low	low	low	mid
mid	low	mid	high
high	mid	high	high

4. **Reduce the risks:** For each identified risk, propose **one mitigation measure** (briefly describe it: 1-2 sentences) and estimate the **level of mitigation** (low/ mid/ high + 1 sentence justification).
   You can think about:
   - Technical mitigations, that the companies developing the product could (or should have) put in place
   - Organizational mitigations, that rely on human ways of reducing the risks (e.g. that users can put in place)

5. **Conclude:** In your opinion, given the identified benefits and risks, does this system contribute positively to society? **Justify your answer** (5-6 sentences).

6. **Sources:** List the sources you have used for your evaluation.
   You may use the two resources provided, or other sources if you wish.
   It is allowed and encouraged to cite material seen in class/slides/videos.
   You must cite all the sources you have used.

Template

Members of the group:

Solution: (2-3 sentences)
Context: (2-3 sentences)
Benefits: (3 bullet points, 1 sentence each)

WELFARE		
RISK	RISK LEVEL	MITIGATION
• Description of a risk (1-2 sentences description)	• Level of the risk (level of probability + 1 sentence justification + level of severity + 1 sentence justification + resulting level)	• Description of a mitigation measure (1-2 sentences description + level of mitigation + 1 sentence justification)
FAIRNESS		
RISK	RISK LEVEL	MITIGATION
•	•	•
AUTONOMY		
RISK	RISK LEVEL	MITIGATION
•	•	•
PRIVACY		
RISK	RISK LEVEL	MITIGATION
•	•	•
SUSTAINABILITY		
RISK	RISK LEVEL	MITIGATION
•	•	•

Conclusion: (5-6 sentences)

Sources: