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<b>Graduation Profile</b>	User Interaction
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	<b>Learning Outcome</b>	<b>Level* (U, O, B, P, A)</b>	<b>Feedback</b>
1	Professional Duties	Beginning	The design plans have been drawn successfully and approved by stakeholders. The implementation has been started. Work was carried out in iterations in line with the stakeholders' expectations. More profesional products such as production ready code and testing still need to take place.
2	Situation-Orientation	Proficient	The Agile way of working is already know and thus was easy to get onboard with Scrum activites. Requirement gathering was also a familiar activity due to various green projects done in the past. In addition, a Double Diamond model was applied to help the design process and Figma was used to make digital Wireframes. Moreower, the profesional communication and initiative are also quite natural due to previous project based work involving various stakeholders. Version Control, even though familiar, still needs more practice in the context of a larger team and better procedures.
3	Future-Oriented Organisation	Proficient	Student communicated with all important stakeholders. To ensure the solution fits in with the company's requirements and expectations a lot of communication happened with PO and UX designers. Student even gathered some insights from end users. Planning and follow through have been suceessful until this point.
4	Investigative Problem Solving	Beginning	A good project phasing and frequent communication with the stakeholders help stay on top of the challenges. Keeping a log of daily activities and all received feedback is also very useful. However, more technical research should still take place as implementation phase has recently begun and it grows in complexity over time.
5	Personal Leadership	Orienting	Student is taking initative and ownership of the project rather well. Managing most commuication and presentation by myself. However, there is still lack of clear vision of the future career paths.
6	Targeted Interaction	Proficient	Good communication with both mentors, PO, UX designers and other team members. Awareness of where to go with specific questions and how to present the questions or work done. Communication is clear and directional till now.

\*choose from Undefined, Orienting, Beginning, Proficient, Advanced

## Appendix: Explanation about the learning outcomes

1. Professional Duties: You carry out the professional duties on a bachelor level resulting in professional products in line with the IT-area you are working in.

### *Clarification:*

- Professional duties on bachelor level = All or a subset of the activities Analysis, Design, Realize, Advise, Manage&Control on professional level. As a reference, 1) use the HBO-I framework<sup>1</sup> on proficiency level 3, 2) the level as required in OE6 or OE7 that relates to the IT field, 3) the expectation in the professional workfield related to IT field of the graduation project.
- Professional products: end products and other products as a result of the professional duties
- In line with the IT-area = You deliver professional products that are characteristic for the IT area of your project. E.g., a software architecture in full stack software development. On a general level the IT areas are defined by the 5 architectural layers of the HBO-I framework (User Interaction, Organizational Processes, Software, Hardware Interfacing, Infrastructure), or a more specific level as a subset or combination of the architecture layers (like cyber security or web development).

2. Situation-Orientation: You apply your previously acquired knowledge and skills in a new and authentic context to deliver relevant and valuable results for the project and company.

### *Clarification:*

- Apply your previously acquired knowledge = You adapt to the processes and way of working of the company
- Relevant and valuable = Your work is relevant for one or more persons and creates value (e.g., in terms of upward TRL transition)
- New and authentic context = you work in a methodological and structured way in a context where approach and solution area are open, with multiple stakeholders and multiple IT areas combined.

3. Future-Oriented Organisation: You explore the organisational context of your project, make business, sustainable and ethical considerations and manage all aspects of the execution of the project.

### *Clarification:*

- organisational context – you identify the business domain and stakeholders of the project and know its business legitimisation.
- business, sustainable and ethical factors – you take into consideration business, sustainable development and ethical aspects in your judgement process using standards or methods/tools (e.g. TICT).
- manage execution – you create a project plan and monitor your project including the research activities, time, money, risks and the quality of the solution which is valuable for the organisation.

4. Investigative Problem Solving: You take a critical look at your project from different perspectives, identify problems, find an effective approach and arrive at appropriate solutions.

### *Clarification:*

- Identify problems - Throughout all phases of the project, initially by identifying the problem/opportunity of the client, defining the main scope of the project and formulating the related research questions, and during the project by identifying newly encountered problems/challenges and formulating more in-depth or detailed research questions.

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<sup>1</sup> As described in: HBO-i Domeinbeschrijving 2018, HBO-I stichting, Amsterdam.

- Different perspectives and effective approach – you use a variety of research strategies, methods and activities (reference: [https://ictresearchmethods.nl/The\\_DOT\\_Framework](https://ictresearchmethods.nl/The_DOT_Framework)) in a structured way in order to find justified answers to your research questions.
- Appropriate solutions – you use the results from your research to create valuable solutions and validate these with the relevant stakeholders.

5. Personal Leadership: you are entrepreneurial around your projects and personal development, you pay attention to your own learning ability and keep in mind what kind of IT professional and/or what type of positions you aspire to.

*Clarification:*

- Entrepreneurial means that you take the lead in your own project, both planning as well as content wise.
- Paying attention to your own learning ability means that you can reflect on your own actions, ask and receive feedback on your actions and look for further opportunities and possibilities that flow from that feedback and that you are aware of your development as an IT professional.
- You know which role you envision in the IT-landscape and what role you play in a team.

6. Targeted Interaction: You determine which partners play a role in your project, collaborate constructively with them and communicate appropriately to achieve the desired impact.

*Clarification:*

- Communicate appropriately means that you make sure that your communication has the right impact and execution.
- Partners are the different stakeholders in the project to which you pay attention to and whose interest in the project are clear to you.