

Rescue on wheels process documentation

Team 2

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December 20, 2018

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1 Introduction

This document is an exploration of the process of creating the Metabot. In this document you'll gain insight into how the cooperation within the team started and evolved, agreements we made regards our cooperation, priorities set before and during the development, problems encountered during the developmental process as well as communication within our team, with our coach and with the product owner.

The entire document is written as a collaborative effort within our team, it is solely written in English and where applicable provided with references to the Dutch source material e.g. our **Wordpress blog**.

This document uses terms that are quite common within our field but we'll elaborate none the less:

- **SWOT: Strengths, weaknesses, opportunities and threats.**
A way of listing attributes of the team and individual members.
- **SMART: Specific, measurable, acceptable, realistic and time-bound.**
A detailed way of describing situations, goals and suchlike.
- **SCRUM:**
A developmental methodology that puts emphasis on iterative work.
- **Daily stand-up:**
A meeting in accordance with scrum methodology where members divide tasks, discuss problems and inform others of finished tasks.

2 Cooperation agreement

This chapter contains our cooperation agreement, this is a document that was created at the start of the rescue on wheels project and details agreements and rules of behaviour.

2.1 Communication

Our main communication channel is "Whats-app", we have made a group conversation in which we will discuss all things relevant to the project. If necessary we can use the built-in functionalities on Trello to communicate specific information about tasks but all other communication should be contained to the "Whats-app" group. If a team member is not reachable through the group conversation we might call him to make sure the information has come across properly.

2.2 Tools

During the project we will use the following tools (the tool names are hyper-links):

- **Trello** - Our digital Scrum board which we use to keep track of progress made.
- **Gitlab** - Remote repository for code so that we can work together on the same files and have version control.
- **Google Drive** - We use Google drive for storing documents before they are posted on the website or added to the documentation files. Also on here are useful links and texts from team members for team members.
- **Wordpress** - Our Wordpress blog which contains reports of daily scrum stand-ups, coaching and sprint retrospectives.
- **PyCharm** - IDE for python
- **Intelij** - IDE for Java
- **Raspberry Pi 3B** - Platform for the entire project.

2.3 Roles

During the project we have the following roles: "Scrum-master", "Product owner", "Documentation manager" and "Team member". These roles have been divided as follows:

- Damian: Scrum-master; Sprint 1 & 2, Documentation manager.
- Mohammed: Team member.
- Mustafa: Scrum-master; Sprint 3 & 4.
- Yoshio: Product owner.

Scrum-master takes care of the daily standup, retrospective and our Trello board.

Product owner is our communicator with outside parties regarding the project.

Documentation manager plans all the documentation and oversees the creation of said documentation so that the other team members can work on it in an agile way and the manager will make sure it all adds up in the end.

2.4 Tasks

During daily stand-ups we will divide the tasks and check to see if everyone is still working on something. With the degree of variation that this project brings, it becomes hard to assign all tasks or a group of tasks to individuals. Tasks will be divided in agreement with each other and the assignment can be tracked on our Trello board.

2.5 Expectations

We expect each member to work on their assigned tasks and try to finish them. If problems arise, the scrum-master should be notified and the problem can be discussed during a stand-up. When this is not upheld the following should happen:

- Tell the team member that he should uphold the expectations
- Discuss said failed expectations within the group
- Bring it up during a coach meeting

2.6 Educational goals

Damian: *At the end of the project I am able to create more complex systems and manage a team as a scrum-master.*

Mohamed: *At the end of the project I am more proficient in the use of hardware.*

Mustafa: *At the end of the project I am more proficient in the use of robotics and hardware.*

Yoshio: *At the end of the project I am capable of guiding the team as scrum-master and I am able to relate the product owner's wishes as delegated product owner.*

2.7 Daily stand-up

Every week we will hold a daily stand-up on Monday and Tuesday morning. Things discussed during these stand-ups will be posted on our **Wordpress blog**. The blog will be maintained by a different team member each week. The schedule for this can be found on our **Google Drive**. At the end of each project day we will hold another stand-up to review progress made and problems encountered during said project day.

2.8 Absence

In case of sickness or other absences, let the team know as soon as possible and try and finish your tasks at home. If a task is being worked on by multiple people, a re-assignment of the task might be needed and this will be brought up during the daily stand-up. In case of serious illnesses, the team member is released from his task(s) to ensure rest and optimal recovery.

3 SWOT Analysis

To start off our project in the best possible way, we had a need to understand our group dynamic. How our group will behave and perform. To gain a better understanding of this dynamic our coach tasked us with the development of a 'Strenghts, Weaknesses, Oppurtunities and Threats (SWOT) analysis'.

This chapter contains said analysis. First, SWOT analyses of each individual member which are then combined to create a group analysis. This approach was chosen because the group itself may create different characteristics but it still consists of individual members. If we understand the members as individuals, we may get a better understanding of the group.

3.1 Individual analyses

3.1.1 Damian

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> • I am a quick learner. • I am a calm and collective individual. • If I am interested in something i can spend all my time on it. • I have a decent amount of wisdom. • I am capable of quality self reflection. • I am a curious individual. • I yearn for self-improvement. • I have great leadership and conflict resolution skills. 	<ul style="list-style-type: none"> • I tend to procrastinate and only switch to higher gear under pressure of deadlines. • I tend to procrastinate and only switch to higher gear under pressure of deadlines. • I find my technical skills lacking in comparison to my team members.
External origin (Environmental attributes)	<ul style="list-style-type: none"> • My project team has a lot of bright minds from which I might be able to learn technical skills and improve my current ones. • During this project I have the opportunity to practice the Scrum-master role. 	<ul style="list-style-type: none"> • The rover has proven to be unreliable in the hardware department and might fail once again. • My team, which has more technical skills than me, might outperform me.

3.1.2 Mohamed

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> • When I work on a product, I am very determined and dedicated to finishing that product and maintain quality at the same time: I will not give up till it is completely done. • I like to help my colleagues if they get stuck with their task during a project • I am capable of having a stable communication with my colleagues, because I am known to be a very social and kind person. • I am totally open to sharing my knowledge with someone else. 	<ul style="list-style-type: none"> • I am known to be a perfectionist. I want to finish the product I am working on in the best way possible. However, most of the time I tend to waste lots of precious time because I am pondering over how I can work on the product the best way possible. • I have a hard time handing out tasks during a project because I do not know whether my colleagues will be able to finish a certain task or not. • I have a hard time to wake up in the morning because I am definitely not a morning person.
External origin (Environmental attributes)	<ul style="list-style-type: none"> • I would like to meet new people to broaden my network in the future. • I will be able to learn about new technologies on hardware. 	<ul style="list-style-type: none"> • As I only got to know most of the students in my team recently, there may be a student in my team who does not put much effort in the project. • As I am a excellent student, I may get more pressure from my non-excellent students in the project, which could affect me badly.

3.1.3 Mustafa

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> • Not running away from asking questions. • Healthy curiosity. • Not afraid of confrontation but usually can't be bothered with it. • Doesn't mind when bossed around as long as it's leveled. • Knows how to get along with people if he really wants to. 	<ul style="list-style-type: none"> • Quickly annoyed when someone has an improper way of speaking. • Doesn't appreciate people being or talking authoritarian to him.
External origin (Environmental attributes)	<ul style="list-style-type: none"> • Can get hands on experience with robotics. • Can expand on his hardware programming. 	<ul style="list-style-type: none"> • Sudden relationship which drags his life downhill. • Lives more than an hours trip away from school while his colleagues are near. • Started a week later with school which makes him 1 week late with his homework. • 2-days a week work. • Excellence subjects which are time consuming.

3.1.4 Yoshio

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> • Able to balance perfectionism with productivity. • Perfectionist. • Productive. • Empathetic. 	<ul style="list-style-type: none"> • Appears to look irritated even when not, causing some people being afraid to ask/comment something. • Difficult to express appreciation even when truly happy with some result.
External origin (Environmental attributes)	<ul style="list-style-type: none"> • With the role, delegated product owner, I am able to get more experience in negotiation and communication. • With the role, delegated product owner, I am able to have more control over what we can make. 	<ul style="list-style-type: none"> • Two excellence students in the team. They have a higher possibility of being arrogant. This could result in being pushed over by them. • Two students in the team work 8 up to 20 hours every week.

3.2 Group analysis

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Group attributes)	<ul style="list-style-type: none"> • Social • Helpful to one another • No dictators • Smart • Curious • Desire to self-improve • Empathetic • Desire to create a quality product 	<ul style="list-style-type: none"> • Perfectionist • Low confidence in one another • Difficulty with being on time • Procrastination • Different skill levels amongst the team • Authority/Following commands problems
External origin (Environmental attributes)	<ul style="list-style-type: none"> • Social networking • Learning new technologies • Experiencing negotiation and communication • Learn from team members • Learn and improve scrum knowledge • Experiencing a robotics project 	<ul style="list-style-type: none"> • Ignorance from teammates • Increased pressure from excellence program • Two team members work 10 to 20 hours a week • Rover appears to be unreliable • Fear of out-performance by other team members • Differences in travel time • Excellence program extra courses and time needed for them

4 Educational goals SMART

This chapter contains educational goals for each of our team members. These goals have been formulated according to the SMART methodology. These goals have, where applicable, been expanded upon with whether or not they have been successfully fulfilled or are in need of some more work.

4.1 Damian

- Professional workmanship: At the end of the project I want to have scheduled a week and completed it with at least 75% accuracy.
 - Succes, the week of 19 november was completed with 92% accuracy.
- Research capabilities: At the end of the project I want to at least have researched a way to implement one of the features of our product.
 - Succes, LCD screen implementation.
- Educational capabilities: During this project I want to study myself and try and figure out why I keep postponing schoolwork.
 - Succes, Observed several factors contributing to the behaviour.
- Communicative capabilities: During this project I want to improve the communication between me and my team members in comparison to PAD. This means, healthy discussions and no avoidance of interaction.
 - Successful so far.
- Professional ethics and societal orientation: During this project I want to refrain from implementing unethical features.
 - Succes, Flamethrower was not implemented.
- Cooperation: During this project I want to try not miss any scheduled project workdays at school.
 - Failed, missed one day so far. Reflection upon this missed day has led to prevention of more missed days.

4.2 Mohamed

- Professional workmanship: During this project, I am able to put the theory I have learnt during the lessons from Technical Computing into practice on the rover.
 - Success, Implementation of the Singleton pattern.
- Research capabilities: During this project, I will research software patterns so that I can write efficient code.
 - Success, researched the adaptability and implementation of the Singleton pattern within our own project.

- Educational capabilities: At the end of Robot On Wheels Project, I - with the help of my motivation - have learned how to reflect on my development in a project.
 - Success, self reflection during the retrospectives and stand-ups.
- Communicative capabilities: During the last presentation for Robot On Wheels Project, I will be able to speak English more fluent.
 - Not yet successful, maybe more speaking during the presentations.
- Professional ethics and societal orientation: For this project, I will create a rover which meets the user guideline Usability.
 - Not yet successful, will be covered during the final sprint when focus is put on the perception of our product in terms of usability.
- Cooperation: After the first sprint of Robot On wheels Project, I will be able to trust my colleagues hand out tasks with confidence.
 - Successful, I have been able to give my teammates tasks without staying involved for example: Damian and the ultrasonic sensor.

4.3 Mustafa

- Professional workmanship: At the end of the project I want to be a specialist in IT-projects and this will be measured by the perceived (by team members) performance and specialty.
 - My goal has partially been reached but it can be much better.
- Research capabilities: I want to have faster and more efficient research methods for information that I need by the end of this year. This will be measured by analytical documents made during the project.
 - Didn't work because the analytical documents have not been made yet.
- Educational capabilities: I want to improve my learning capacity in such a way that I can solve problems and learn from it by the end of the project. This will be measured by a reflection at the end of the project.
 - Didn't work because we didn't have any reflection yet.
- Communicative capabilities: I want to be more adept at presentations in general but specifically in English by the end of the year. This will be measured at the sprint reviews.
 - Worked, I received positive feedback from the teacher with B2 English. I myself notice improvement.
- Professional ethics and societal orientation: By the end of the year I would like to have a better comprehension of the position of Technical Computing within our society. This will be measured by my attendance at ethical lectures.
 - Did work, I have a much better comprehension now.

- Cooperation: I would like to be better at teamwork with my colleagues to achieve a beautiful result at the end of the project.
 - Worked partly. The team is divided between two parties. One things we have managed a lot but the others lack the quality to realise that. I believe it is the toxic effect of perfectionism. We do get a proper result but one party doesn't know how to pat themselves on the back.

4.4 Yoshio

- Professional workmanship: In this project I will regularly communicate with the product owner concerning the project.
 - Success, correspondence with the prodcut owner has been documented on google drive and implemented in a later chapter inside this document.
- Research capabilities: In this project I want to make a document describing the days/weeks that team members are (un)available and when the probability that they're busy or sick is high/low, so we can adjust our Sprints to this.
 - Success, uploaded on **Google Drive**.
- Educational capabilities: At the end of this project I will have obtained, from my team members through interviewing them, at least 3 strengths and 3 weaknesses that I didn't know before of.
 - Working on it, missing a few points from Damian and Mohamed.
- Communicative capabilities: At the end of this project I will interview the product owner about my performance as a product owner delegate so I can see what I could improve/did well.
 - Project has not ended as of writing this.
- Professional ethics and societal orientation: At the end of this project I will document at least one possible implementation and describe that it's unethical to implement.
 - Success, uploaded to our google drive.
- Cooperation: In this project I will ask members of the team how they're doing personally so I can adjust my attitude towards their situation.
 - Success, I stay involved with the well being of my teammates, for example: Mustafa and his dentist appointment for a tooth problem.

5 Feedback

After having created our individual educational goals as well as our SWOT analysis and a team based SWOT analysis, and having discussed them with our coach, we turned our attention to the feedback forms provided to us through the coaching program. These forms can be found on our **Google Drive** as well as at the end of this document.

Each team member had to fill out nine forms, one for each of the three topics for each of the three other team members. We graded each other and provided a list of both strong- and weak points as well as an explanation of items on these lists when needed.

We took these forms back to our coach to discuss and get some professional feedback. The results were pretty interesting as our discussions went from the feedback forms to the origins of behaviours and characteristics that were critiqued or praised.

We understood that our coach wasn't trying to interpret the forms as much as trying to teach us how to look at this feedback and teach us in what way we could think about it, to try and trace the behaviour back to its root and change something there if desired. Our coach told us that the goal of coaching is to, at the end of the project, no longer need coaching and to be able to evaluate ourselves individually and within the team structure. These feedback forms and the previously mentioned SWOT analyses all contribute to this goal.

To give an example of what is meant by what is written above: one of the team members was told that he showed signs of perfectionism and that this might cause troubles within project or for his own well being.

Instead of trying to figure out how to change this behaviour on the surface level, we took the focus deeper. Why does he have the desire to perfect everything? What caused this desire to arise? We traced it back to childhood and his parents. This is usually how these desires arise but what's important is that he now has the insight of knowing where this behaviour originates, how it has affected his life and most importantly, being aware means being able to change and influence.

6 Feedback based educational goals

This chapter also contains educational goals, however, these have been formulated based on the feedback supplied by each team member through the feedback forms. These goals have been formed recently and have thusly not been provided with the results of efforts made towards them.

6.1 Damian

- Based on the feedback supplied by my team members I conclude that I have to be more confident in my IT skills and be less harsh on myself when I hit an obstacle or fail. Failing is part of the learning process and everything I fail now, I destroy my self image with words of discouragement.
- Based on the feedback supplied by my team members I conclude that I have to be more actively engaged with the project. Due to motivational problems and lack of interest I find it hard to be fully engaged with the project. This is not a new problem to me personally. I have to figure out how to stay conscious of this and actively work towards my goal.

6.2 Mohamed

- Based on the feedback supplied by my team members I conclude that I should take more time considering how to approach a certain issue/task in the project. Apparently I rush in working on my tasks. I can understand this, so I am going to invest more time in thinking of the approach, and I will be using Trello to note down my issues and how I have solved them.
- Based on the feedback supplied by my team members I conclude that I should not work overtime. I do invest extra time into the project at home, because I really want to finish my tasks as fast as possible, so that I can go to the next task. However, this seems to have bad consequences for me, so I will be taking more breaks and plan my time working for the project better.

6.3 Mustafa

- Based on the feedback supplied by my team members I will try not to over-complicate things so I become a quicker problem solver. My teammates will tell me if I managed.
- Based on the feedback supplied by my team members I will try to look at problems with different perspectives so I have a wider view of things. My teammates will tell me if I managed.

6.4 Yoshio

- Based on the feedback supplied by my team members I will decrease the time spent on discussing things. At the end of the project, I will ask the team to evaluate whether I have done so. Also more importantly, whether this made the team more productive.
- Based on the feedback supplied I will let my team members evaluate me at the end of the project on whether I have taken on more an attitude of productivity versus perfectionism.

7 Daily stand-ups

The following chapters contain notes from team activities, starting with the notes from our daily stand-ups. These chapters will briefly touch on their respective subjects while the complete documentation of our team activities can be found on our **Wordpress blog**.

These stand-ups are like small progress meetings to see whether everyone has a task and knows what he should be doing. If anyone has encountered any problems and if anyone needs help with their tasks. We start with our stand-ups from the first scrum sprint.

7.1 Sprint one

Our stand-ups in the first sprint were a bit chaotic since we had just gotten introduced to each other and the project and had to find our bearings first, coupled with, as described in the later chapter "Impediments", a whole range of problems with the rover itself. This caused us to get off to a slow start.

Having said all that, at the end of the first sprint we had implemented all the functionalities required by school for the first two sprints. This meant that even with a two week delay we managed to catch-up to and exceed the schedule set out by the project itself. This motivated us but also made us a bit cocky.

7.2 Sprint two

As discussed in the previously mentioned "Impediments" chapter, we started looking into giving ourselves a bigger challenge. This was an idea that we had since our first sprint progress put us on a path that would see us finished with the project at the end of the second sprint.

To combat this we came up with the idea to create an amphibious rover or to transform our current one. We started doing research on this topic while also adding more required functionalities.

The problem came when we approached the end of the sprint and realized that we had nothing concrete to show regarding our new idea but also had implemented only one or two new functionalities.

We had set the bar really high for ourselves because the first sprint made us confident in our abilities and simultaneously made us underestimate the project's requirements. Everyone could feel that we weren't going at it as well as we could have, which caused a dip in motivation and interest in the project. We had to set this right to get back on track.

7.3 Sprint three

We started this sprint by setting realistic goals, we abandoned the amphibious idea and focused our full attention on finishing all the requirements set by the project. Over the weeks our motivation came back and efforts increased. We managed to finish all the tasks set out by ourselves in accordance with the project manual. We even added some extra functionalities.

Alongside improving upon our previous sprint in terms of work done, we also revamped our **Trello** board to include deadlines and we started working in duo's to assist each other with tasks if needed.

7.4 Sprint four

For our fourth and final sprint, which is still running whilst writing this, we decided to not try anything too risky, like adding new functionalities while there are still bugs and errors that need to be sorted out.

We spent most of our time in the final sprint on bug fixing, error solving and documentation. We came to the realization that we should have started working on documentation a lot sooner. Our current hardware setup is quite intricate and having to explain all that requires quite a bit more work than if we had created it at the start and updated it with each added piece of hardware.

Our team is now in its most efficient state of teamwork and work in general. We require less communication to get across what we want to, tasks are being completed with a high velocity and are actually finished according to our definition of done.

8 Coaching

This chapter briefly covers the coaching session we've had with our coach Marten Teitsma. The full documentation of our coaching sessions can be found on our **Wordpress blog**.

Our first coaching session with Marten was a complete disaster, we came unprepared and had not even read the coaching manual. This became obvious to our coach pretty quickly and the remainder of the session was spent discussing our failure to prepare properly. Some of our members tried to explain why we failed to prepare but in the end, we did not prepare, no matter the reason why. We felt that our coach was trying to get this across to us, for us to take the responsibility and learn from our failure. Which we did.

The second time we came prepared. We had created the team and individual SWOT analyses and brought them with us to discuss with our coach. This gave us a few tips that we can use:

- One student's weakness' or strengths could compliment another's strengths or weakness'.
- "Give up quicker" don't keep grinding away at a task stubbornly when you could ask another team member for help.
- Holding multiple daily stand-ups to track progress made on tasks and to prevent problems from staying hidden.

We also asked our coach about the idea of the amphibious expansion/transformation. While our coach told us that they will never discourage students from creating something ambitious however this might be a little too difficult for us right now.

The third coaching session required some more preparation than the previous ones. We had to fill out all the feedback forms that can be found in this document's appendix. These forms were sent to our coach before the meeting took place, so that Marten could look through them in preparation of discussing them.

The first thing our coach pointed out to us was that we hadn't given much thought to the way our coach would receive and view these documents. It was a .zip file with nested folders for each team member and their feedback. This wasn't very user friendly as our coach pointed out. The remainder of the session was spent discussing the feedback forms. The result of this discussion can be found in chapter five 'Feedback'.

9 Retrospectives

This chapter touches on the topics discussed during our retrospectives. The full retrospectives can once again be found on our **Wordpress blog**.

9.1 Sprint one

Things we want to add

- Prepare stand-ups and hold them at set times;
- Keep the stand-ups on track;
- Set priorities for tasks.

Things that went well

- Interaction among team members is going well despite everyone having an inclination for taking lead;
- We caught back up after our rough start;
- Working on set days without anyone being tardy.

Things that didn't go so well

- Spending too much time on trivial, non-priority stuff;
- Spending too little time on efficient work e.g. casual off-topic conversations.

Things we should do more of

- Give each other feedback;
- Set task priorities;
- Spend time more efficient;
- Use checklists in Trello cards to split the task into smaller manageable chunks;
- Use Trello actively, don't assign people to a task until it is put into the working list.

9.2 Sprint two

Things we want to add

- No procrastination of school courses to prevent it from taking up project reserved time.

Things that went well

We did not list anything that went well, this retrospective had a negative tint because everyone felt like they could have done more and we weren't satisfied with the progress made.

Things that didn't go so well

- Adding new functionalities, we didn't do as much as we planned;
- Homework for other courses as well as finals prep. This caused a drop with tasks being finished;
- Because everyone was working solo on their own tasks there wasn't much time spend helping each other;
- Failed to meet the weekly 16 hour agreement as well as some attendance problems.

Things we should do more of

- Planning homework and studying better;
- Help each other, perhaps work in duos.

9.3 Sprint three

Things we want to add

- Updated version of our definition of done;
- Deadlines and comments on our Trello cards to communicate progress and problems.

Things that went well

- Our rate of finishing tasks went back up in comparison to sprint 2;
- Better cooperation, helping each other in duos;
- Our sprint review presentation;
- Priorities were upheld and improved our progress;
- Team members put more effort into the project in comparison to sprint 2.

Things that didn't go so well

- When we say that something is done, it usually required a few more things. A lot of tasks were not truly finished;
- Meeting our own deadlines could be improved. Perhaps moving the deadline in coordination with the rest of the team or at least discussing the missed or to be missed deadline;

- Some team members still arrive late occasionally, this could be prevented and would improve efficiency.

Things we should do more of

- Working in duos;
- Setting our own deadlines;
- Setting priorities and distribute tasks according to our own educational goals.

10 Impediments

This chapter briefly describes the problems we've encountered during the developmental process.

10.1 Rough start

During our first week of the rescue on wheels (ROW) project we ran into the most problems we've had thus far. The rover did not respond to the preexisting code written by the coordinators of the project. We spent the better part of our first week trying to fix this.

After attempting various fixes our coordinator concluded that the problem had to be something that was not repairable within a small enough time span to make it worth our time. We were given another robot however this one wasn't without it's problems either. The actuators that drive the wheels were acting up. Sometimes some of them wouldn't work.

After attempting more fixes for this problem we were given our third and final rover. It worked better than the previous ones but still required us to disassemble some parts and solder one of the wheels back on. This one is the one we are currently using and seems to be working well enough, thus far, for us to be able to complete the ROW project.

This rough start set us back approximately two weeks. In hindsight, this setback won't prevent us from completing the project but it hasn't helped either.

10.2 Amphibious ambiguity

After the first sprint was completed it became obvious to us that the project was easier than expected. We had nearly completed all the requirements for the project as stated by the project manual.

To counteract this and provide enough of a challenge for us, we came up with the idea to try and make the rover amphibious. This would provide a sufficient or perhaps even slightly too big of a challenge but at least it would not be completed within one of it's four sprints and leave us to our own devices.

The problem we encountered with this idea is the somewhat vague communication regarding this idea. We were uncertain whether it would be a good idea to try and take the project off the laid out tracks and try and make it swim. When discussing this idea with our product owner and others, we always got the same kind of response. They encourage students and their ideas

but they need a product that can be completed within the defined project period. This made it hard for us to decide if we should go ahead with the amphibious conversion or not. In the end we decided not to. This has cost us a few days due to discussing, brainstorming and planning.

10.3 Magnetometer

As part of the standard rover, supplied to each team within this project, there was a sensor called the magnetometer. This sensor uses the earth's magnetic fields to define a directional difference to true north.

We intended to use this sensor as part of our mapping functionality to give our map a point of reference. However the magnetometer was giving inconsistent values. Even after implementing code written by our technical coordinator, Ruud Slokker, we still couldn't get accurate values.

Other teams within the project seemed to struggle with this as well, we've chalked it up to a faulty or low quality sensor. That said, we've implemented the sensor to the best of our abilities and are trying to use the given values in a way that they still provide a positive influence but we have spent more time on it than we had planned from the start and haven't achieved the original goal either.

10.4 Microphone

As for our, hopefully final, impediment. The microphone. We've announced our desire to implement two way communication as a functionality for our rover. To do this we wanted to use a microphone paired with a speaker to enable the rover operator to communicate with survivors and vice versa.

During the actual implementation of this idea we ran into some problems. We're currently running Flask as our framework but the microphone and the implementation we found would require AIOHTTP as our framework. We've spent more time trying to find solutions that would not require us to completely revamp our current product as this is not a smart move this close to the end of our project.

Unfortunately we did not find any compatible solutions and have moved this functionality to a lower priority. Perhaps after all higher priority tasks have been completed we may have some time left to implement two way communication, otherwise it will be left as "to be implemented later".

11 Communication

This final chapter describes the communication between the team and our coordinators and stakeholders. The complete communication can be found on our **Google Drive**. This chapter will contain a brief explanation of the topics covered in the communication in a chronological order.

11.0.0.1 Business case

27th of November

Communication regarding the amphibious idea. The product owner expressed concerns regarding the six month time-frame in relation to the difficulty of our idea. Our coach expressed positivity because of our ambitious take on the project. Product owner advised us not to proceed.

11.0.0.2 Actuator problems

2nd of October

Communication to try and solve a problem with one of the actuators not working. Our technical coordinator advised us to visit Miguel to get a replacement actuator. This did not work. Eventually solved the problem, a piece of tape was acting as a conductor creating electrical problems.

11.0.0.3 Excellence program

15th of October

Communication to try and clear up some of the confusion around the extra assignment for the two students in our team who partake in the excellence program. No clear results from this exchange.

11.0.0.4 Scrum feedback

10th of November

Communication regarding our scrum usage. Our product owner, Ed, had voiced his concern regarding our implementation of the scrum methodology. Asked said product owner for feedback on our implementation as to be able to improve it as well as a request for a workshop on how to use scrum. No follow-up action resulted from the communication, scrum implementation has not been analyzed and improved.

11.0.0.5 Trello

12th of November

Communication with our product owner as he requested access to our Trello board to inspect

our progress. Included the Trello link in our response as well as on our **Wordpress blog** as Ed indicated a preference for this.

11.0.0.6 Hardware orders

13th of November

Communication with various project overseeing members regarding the ordering of hardware, specifically the expected time-frame until said ordered hardware can be implemented. Ordering through school or from providers directly and forwarding the costs to the school were our options. This exchange also did not deliver and concrete results.

11.0.0.7 Trello 2.0

19th of November

Communication as a results of changes made to our Trello board. We asked our product owner, Ed, for feedback regarding these changes. We implemented the feedback and came back with another request for feedback. This loop of feedback implementation and new feedback eventually stopped because of the lack of knowledge of scrum on part of our product owner, as stated by himself, amongst other reasons.

11.0.0.8 Magnetometer replacement

4th of December

Communication with our product owner, Ed. The magnetometer on the rover, as supplied to us by school, wasn't working well enough to be able to use in our product. Our product owner had a different sensor at home which he could provide us with in the hope that this one would be able to add something valuable to our product. The sensor had no Raspberry Pi libraries and thus was never implemented.

A Feedback forms

Feedback: Professional Ethics and Social Awareness	
Name of student: Mohamed el Hadiven	Date: 13-11-2018
Completed by: Damian de Hoog	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics: Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness			4		Demonstrates excellent Professional Ethics and Social Awareness
--	--	--	---	--	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points:

Zegt wat hij oprecht vind en kan dit onderbouwen met concrete voorbeelden

Tips:

Figure 1: Professional Ethics feedback Mohamed by Damian

Feedback: Professional Ethics and Social Awareness

Name of student: Mustafa Yücesan		Date: 13-11-2018
Completed by: Damian de Hoog	Position assessor: Student/Team member	
Signature assessor:	Organisation:	
Phone number and email address of assessor:		

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness			4		Demonstrates excellent Professional Ethics and Social Awareness
--	--	--	---	--	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points:

Bekommert zich veel om hoe anderen zich voelen door bepaalde acties en probeert een oplossing te vinden waarbij iedereen zich eerlijk behandeld voelt.

Tips:

Let op wie er aan het praten is en weer geduldig

Figure 2: Professional Ethics feedback Mustafa by Damian

Feedback: Professional Ethics and Social Awareness

Name of student: Yoshio Schermer		Date: 13-11-2018
Completed by: Damian de Hoog		Position assessor: Student/Team member
Signature assessor:		Organisation:
Phone number and email address of assessor:		

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness			4		Demonstrates excellent Professional Ethics and Social Awareness
--	--	--	---	--	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

Houd rekening met gevoel en motivatie van anderen en hun persoonlijke omstandigheden.

Tips

Laat je niet te veel weerhouden van ideeën en hun uitvoering door ethiek of sociale omstandigheden.

Figure 3: Professional Ethics feedback Yoshio by Damian

Feedback: Research Competence

Name of student: Mohamed el Hadiyen	Date: 13-11-2018
Completed by: Damian de Hoog	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	X	<input type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	X	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	X	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented		3		Is very research oriented
--------------------------	--	---	--	---------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points:

Heeft een goede capaciteit voor analytisch denken en onderzoeken van specifieke problemen

Tips:

Neem de tijd om het probleem vanuit verschillende perspectieven te benaderen om zo meerdere opties te overwegen en te bedenken.

Figure 4: Research competence feedback Mohamed by Damian

Feedback: Research Competence

Name of student: Mustafa Yücesan	Date: 13-11-2018
Completed by: Damian de Hoog	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input type="checkbox"/>	X
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	X	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	X	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented				4		Is very research oriented
---------------------------------	--	--	--	----------	--	----------------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points Kan goed analyseren en kritisch nadenken over gecreëerde oplossingen
--

Tips Probeer verschillende perspectieven te benaderen voor een bredere kijk op dingen.
--

Figure 5: Research competence feedback Mustafa by Damian

Feedback: Research Competence

Name of student: Yoshio Schermer	Date: 13-11-2018
Completed by: Damian de Hoog	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented					5	Is very research oriented
---------------------------------	--	--	--	--	----------	----------------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

Gebruikt verschillende perspectieven om dingen te onderzoeken om zo een breed beeld te verkrijgen van het probleem en de mogelijke oplossingen.

Tips

Je denkt soms moeilijker dan dat nodig is. Soms is de simpelste oplossing het beste.

Figure 6: Research competence feedback Yoshio by Damian

Feedback: Team Collaboration

Name of student: Mohamed el Hadiyen Completed by: Damian de Hoog Signature assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
Phone number and email address of assessor:	

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker				4				Is an excellent team worker
----------------------	--	--	--	---	--	--	--	-----------------------------

Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points:

Probeert het team te motiveren en aan de slag te krijgen, eveneens het proberen van enthousiasme opwekken bij mij persoonlijk wanneer dit afwezig is.

Tips:

Je bent gauw geneigd om dingen voor andere te doen, ik zou zelf zeggen dat je hier bewust van moet zijn om zo niet jezelf te overwerken. Neem je rust.

Figure 7: Team Collaboration feedback Mohamed by Damian

Feedback: Team Collaboration

Name of student: Mustafa Yücesan Completed by: Damian de Hoog Signature assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
Phone number and email address of assessor:	

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker				4		Is an excellent team worker
----------------------	--	--	--	---	--	-----------------------------

Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

Wil het werk goed verdelen over teamleden en zorgen dat iedereen wat uit het project kan halen.

Tips

Geef anderen de ruimte om ideeën/meningen te uiten

Figure 8: Team Collaboration feedback Mustafa by Damian

Feedback: Team Collaboration

Name of student: Yoshio Schermer Completed by: Damian de Hoog Signature assessor: Phone number and email address of assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
--	--

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker					5	Is an excellent team worker
-----------------------------	--	--	--	--	----------	------------------------------------

Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

Compassie voor mensen welke minderen vaardigheden hebben en een oprechte interesse in het verbeteren van deze skills

Tips

Denk aan je rust, zorg dat je jezelf niet overwerkt met te veel helpen en regelen voor het team.

Figure 9: Team Collaboration feedback Yoshio by Damian

Feedback: Professional Ethics and Social Awareness

Name of student: Damian de Hoog	Date: 13-11-2018
Completed by: Mohamed el Hadiyen	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4	5	Demonstrates excellent Professional Ethics and Social Awareness
--	---	---	---	---	---	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

- You are very mature and you know how to respect me. This makes me feel comfortable working with you
- You know how to respond on criticism in a professional way. Because of this, I feel more comfortable criticising you

Tips

It might be a good idea to meet your appointments regarding the project more often. Last week we agreed that everyone would meet up for the project on Friday, but you did not come.

Figure 10: Professional Ethics feedback Damian by Mohamed

Feedback: Professional Ethics and Social Awareness

Name of student: Mustafa Yücesan		Date: 13-11-2018
Completed by: Mohamed el Hadiyen		Position assessor: Student/Team member
Signature assessor:		Organisation:
Phone number and email address of assessor:		

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics: Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	<u>4</u>	5	Demonstrates excellent Professional Ethics and Social Awareness
--	---	---	---	----------	---	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

- You know what respect means. You value it a lot which helps to keep the balance within the team when it comes to the relationships between teammates.

Tips

- You have to take social implications more into account when doing something. In this case, it might be a good idea to give your teammates the time to finish what they want to say during a discussion.

Figure 11: Professional Ethics feedback Mustafa by Mohamed

Feedback: Professional Ethics and Social Awareness

Name of student: Yoshio Schermer		Date: 13-11-2018
Completed by: Mohamed el Hadiyen		Position assessor: Student/Team member
Signature assessor:		Organisation:
Phone number and email address of assessor:		

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4	<u>5</u>	Demonstrates excellent Professional Ethics and Social Awareness
--	---	---	---	---	----------	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

- It is clear that you are trying to apply knowledge from courses – especially the Scrum method – to the project. I really like that.
- You are trying to maintain a professional behaviour when working on the project.

Tips

- I don't really have a tip for you.

Figure 12: Professional Ethics feedback Yoshio by Mohamed

Feedback: Research Competence

Name of student: Damian de Hoog Completed by: Mohamed el Hadiyen Signature assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	X	<input type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	X	<input type="checkbox"/>	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	X	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5	Is very research oriented
--------------------------	---	---	---	---	---	---------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

- You have proven to be able to help solving problems with regards to the product
- Your substantiations during our discussions regarding the project often are strong

Tips

- Be more self-confident. Due to you not being that self-confident, you seem to give up on certain tasks quickly. It is normal for everyone that you have to do a research on how to approach the task before actually executing that task.

Figure 13: Research competence feedback Damian by Mohamed

Feedback: Research Competence

Name of student: Mustafa Yücesan	Date: 13-11-2018
Completed by: Mohamed el Hadiyen	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	X	<input type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	X	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	X	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5	Is very research oriented
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Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

- It is clear that you research to the extent to find out how to solve a problem or execute a certain task. This research also helps you thinking critically.

Tips

- I haven't seen that many ideas coming from you yet. I would like to see you sharing ideas more actively.

Figure 14: Research competence feedback Mustafa by Mohamed

Feedback: Research Competence

Name of student: Yoshio Schermer	Date: 13-11-2018
Completed by: Mohamed el Hadiyen	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input type="checkbox"/>	X
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	X	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	<input type="checkbox"/>	X
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5	Is very research oriented
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Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

- I really love solving project issues with you. You really give input in the discussions we have and help me out to come with a solution. I also admire your critical thinking.

Tips

- You might want to do more self-research into the elements which the product consists of, so that you can understand the functionality much better

Figure 15: Research competence feedback Yoshio by Mohamed

Feedback: Team Collaboration

Name of student: Damian de Hoog	Date: 13-11-2018
Completed by: Mohamed el Hadiyen	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	4	5	Is an excellent team worker
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Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

- You are very well capable of reflecting on your own contribution to the project
- Your communication is very strong
- You seem to be very open to criticism and you do leave space for self-improvements, so that the team could function better

Tips

- Although you do leave space for self-improvement, I would like to see more actions from you leading to that self-improvement. So when there is something you have to change in order to improve, then make it clear to me that you are trying to change.

Figure 16: Team Collaboration feedback Damian by Mohamed

Feedback: Team Collaboration

Name of student: Mustafa Yücesan
 Completed by: Mohamed el Hadiyen
 Signature assessor:

Date: 13-11-2018
 Position assessor: Student/Team member
 Organisation:

Phone number and email address of assessor:

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	4	5	Is an excellent team worker
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Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

- You know what is expected of you during a sprint and you do work on your tasks.
- You actively participate in discussions

Tips

- You should value time more. This means finishing tasks efficiently and ask for help in time.

Figure 17: Team Collaboration feedback Mustafa by Mohamed

Feedback: Team Collaboration

Name of student: Yoshio Schermer Completed by: Mohamed el Hadiyen Signature assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
Phone number and email address of assessor:	

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	4	5	Is an excellent team worker
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Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

- You contribute a lot to the team spirit and try to motivate everyone to work, even if it means putting more effort than you normally should.
- You do analyse the team performance very well and tries to stick to the scrum method of having discussions, Stand-up.

Tips

- You should not be afraid of criticizing your teammates. Criticism does more good than harm.

Figure 18: Team Collaboration feedback Yoshio by Mohamed

Feedback: Professional Ethics and Social Awareness

Name of student: Damian de Hoog	Date: 13-11-2018
Completed by: Mustafa Yücesan	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4	x	Demonstrates excellent Professional Ethics and Social Awareness
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Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

<p>Strong points</p> <p>Is actively joining the discussion when ethical or social concepts are discussed. Always has a lot to say about IT or non-IT ethical subjects.</p>

<p>Tips</p> <p>Doesn't think high of himself where IT-concepts are concerned. This is really out of place and due to lack of self-esteem in the matter.</p>
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Figure 19: Professional Ethics feedback Damian by Mustafa

Feedback: Professional Ethics and Social Awareness

Name of student: Mohamed el Hadiyen	Date: 13-11-2018
Completed by: Mustafa Yücesan	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Shows social awareness and professional ethics: Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4 (x)	5	Demonstrates excellent Professional Ethics and Social Awareness
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Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

Likes to discuss topics happening in society. Doesn't want to go bad with someone when giving feedback and will give it accordingly. Adjust himself to situations.

Tips

Mohamed sometimes focuses on his own work too much neglecting communication attempts of others until he is done. This is not a bad trait per say but might be considered anti-social in some circles.

Figure 20: Professional Ethics feedback Mohamed by Mustafa

Feedback: Professional Ethics and Social Awareness

Name of student: Yoshio Schermer	Date: 13-11-2018
Completed by: Mustafa Yücesan	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Shows social awareness and professional ethics: Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4	x	Demonstrates excellent Professional Ethics and Social Awareness
---	----------	----------	----------	----------	----------	--

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

He is someone who respects everyone and isn't quick to pick a fight. He knows to adjust to everyone's culture and knows the sensitive topics of everyone. Has a lot of empathy.

Tips

Want a lot of social discussions within the team which are helpful but cost a lot of time.

Figure 21: Professional Ethics feedback Yoshio by Mustafa

Feedback: Research Competence

Name of student: Damian de Hoog		Date: 13-11-2018
Completed by: Mustafa Yücesan		Position assessor: Student/Team member
Signature assessor:		Organisation:
Phone number and email address of assessor:		

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3(x)	4	5	Is very research oriented
--------------------------	---	---	------	---	---	---------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

Is a critical thinker but just not when he really needs to be. Whilst he likes to talk about society he doesn't really want anything to do with critical thinking to solve a problem because he assumes he will mess it up anyway.

Tips

When starting a task, he starts reluctantly keeping in his head something is definitely going to go wrong. He sees this as a bad thing whilst this is just part of the learning process. He compares himself to others who do everything quicker but doesn't understand they only put more time in their learning. This is definitely impeding his research.

Figure 22: Research competence feedback Damian by Mustafa

Feedback: Research Competence

Name of student: Mohamed el Hadiyen Completed by: Mustafa Yücesan Signature assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input type="checkbox"/>	x
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	<input type="checkbox"/>	x
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	<input type="checkbox"/>	x
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5(x)	Is very research oriented
--------------------------	---	---	---	---	------	---------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

Is research minded and is a real critical thinker. Comes up with a lot of theories which don't always work but are an attempt at success.

Tips

Sometimes gets ideas that are really trivial but just wants to implement time which cost a lot of time.

Figure 23: Research competence feedback Mohamed by Mustafa

Feedback: Research Competence

Name of student: Yoshio Schermer	Date: 13-11-2018
Completed by: Mustafa Yücesan	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input type="checkbox"/>	x
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	<input type="checkbox"/>	x
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	<input type="checkbox"/>	x
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5(x)	Is very research oriented
--------------------------	---	---	---	---	------	---------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

He blinks out in his research and appends everything with a source. He is a critical thinker who likes to think about problems with his team. He is creative in technical as in design aspect.

Tips

Don't be too perfectionist in a singly try. You can perfect your code or design slowly.

Figure 24: Research competence feedback Yoshio by Mustafa

Feedback: Team Collaboration

Name of student: Damian de Hoog	Date: 13-11-2018
Completed by: Mustafa Yücesan	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3(x)	4	5	Is an excellent team worker
----------------------	---	---	------	---	---	-----------------------------

Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

He really knows his task and is a nice spirit to the team which motivates everybody. He asks for help when he needs it so he doesn't waste time.

Tips

He keeps in the background whilst this team doesn't really have a leader. He is free to meddle in the project and is expected to.

Figure 25: Team Collaboration feedback Damian by Mustafa

Feedback: Team Collaboration

Name of student: Mohamed el Hadiyen Completed by: Mustafa Yücesan Signature assessor: Phone number and email address of assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
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Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	x	5	Is an excellent team worker
-----------------------------	----------	----------	----------	----------	----------	------------------------------------

Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points Wants to help others when they get stuck. Is obsessed for getting tasks done. Is actively spurring advancement.
Tips Take breaks once in a while and don't work too much continuously.

Figure 26: Team Collaboration feedback Mohamed by Mustafa

Feedback: Team Collaboration

Name of student: Yoshio Schermer

Completed by: Mustafa Yücesan

Signature assessor:

Date: 13-11-2018

Position assessor: Student/Team member

Organisation:

Phone number and email address of assessor:

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
Student is able to lead, stimulate and motivate team members.
Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	4	5(x)	Is an excellent team worker
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Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

Is active in the group and was an excellent SCRUM Master. Works on his task actively and makes sure everyone has something to do. Likes to help.

Tips

Tries too much to have a clear overview which is good but considering the limited time per week should focus more on his own tasks.

Figure 27: Team Collaboration feedback Yoshio by Mustafa

Feedback: Professional Ethics and Social Awareness

Name of student: Damian de Hoog		Date: 13-11-2018
Completed by: Yoshio Schermer		Position assessor: Student/Team member
Signature assessor:		Organisation:
Phone number and email address of assessor:		

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4	5	Demonstrates excellent Professional Ethics and Social Awareness
--	---	---	---	---	---	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

Tends to talk about attaching flamethrowers on SAR robots, but does realize that it is dangerous to the survivors.

Tips

Stop talking about flamethrowers on SAR robots. And circular saws. And other types of tools that are probably quite dangerous to other survivors.

Figure 28: Professional Ethics feedback Damian by Yoshio

Feedback: Professional Ethics and Social Awareness

Name of student: Mohamed El Hadiyen	Date: 13-11-2018
Completed by: Yoshio Schermer	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4	5	Demonstrates excellent Professional Ethics and Social Awareness
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Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points Takes into account others, noticeable in project. That he doesn't only care about himself.
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Tips

Figure 29: Professional Ethics feedback Mohamed by Yoshio

Feedback: Professional Ethics and Social Awareness

Name of student: Mustafa Yücesan		Date: 13-11-2018
Completed by: Yoshio Schermer		Position assessor: Student/Team member
Signature assessor:		Organisation:
Phone number and email address of assessor:		

Professional Ethics and Social Awareness

Description: You are aware of societal issues in your work. You apply your knowledge and skills in a societal context. Critical thinking and acting according to professional ethics is one of your skills.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Shows social awareness and professional ethics:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Takes the professional ethics into account; takes the social implications and sustainability of solutions into account; respects people and society	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the professional ethics and social awareness of this student on a scale from 1 to 5?

Demonstrates poor Professional Ethics and Social Awareness	1	2	3	4	5	Demonstrates excellent Professional Ethics and Social Awareness
--	---	---	---	---	---	---

Tips and strong points for recipient to develop his/her competence in professional ethics and social awareness?

Strong points

Empathetic. Takes into account how others feel. Doesn't recklessly say things nor do things that seem socially unacceptable or asocial.

Tips

Figure 30: Professional Ethics feedback Mustafa by Yoshio

Feedback: Research Competence

Name of student: Damian de Hoog	Date: 13-11-2018
Completed by: Yoshio Schermer	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5	Is very research oriented
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Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

Tried to understand OpenCV entirely for a moment (documentation of OpenCV themselves, not some ELI5 StackOverflow stuff).

Tries to understand things in general on a deeper level which ends up on him taking more time to solving problems and getting stuck in philosophical questions.

Tips

Avoid getting into philosophical questions when working on project.

Figure 31: Research competence feedback Damian by Yoshio

Feedback: Research Competence

Name of student: Mohamed El Hadiyen Completed by: Yoshio Schermer Signature assessor: Phone number and email address of assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
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Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5	Is very research oriented
--------------------------	---	---	---	---	---	---------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points Quick at solving problems. Doesn't think too complicated. Looks at what's best to implement in current situation.

Tips Don't try to solve everything in your head, but rather write some stuff down here and there.

Figure 32: Research competence feedback Mohamed by Yoshio

Feedback: Research Competence

Name of student: Mustafa Yucesan	Date: 13-11-2018
Completed by: Yoshio Schermer	Position assessor: Student/Team member
Signature assessor:	Organisation:
Phone number and email address of assessor:	

Research competence

Description: You are research-oriented and able to identify the various aspects of a research question from different perspectives. You collect relevant data from acknowledged sources. You are able to analyse and relate this data systematically and base your solution on your findings. You are able to generate new ideas and solutions from different perspectives.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

<i>Attitude</i>	N	S	O
Analysis and critical thinking : Distills the essence and relevance from data; distinguishes facts from opinion/ interpretation; distinguishes main points from side issues; identifies cause and effect; evaluates solutions based on previously establish criteria; draws well-reasoned conclusions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Research: Views a problem from multiple perspectives; maps different aspects of a research question; defines the main research question and its sub questions; makes a well-founded choice between research instruments (interview, questionnaire, etc.); gathers relevant data; checks data, avoids unfounded conclusions; cites sources correctly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Creativity: Generates ideas; comes up with new and original solutions; uses existing solutions in new applications; views issues from less obvious perspectives	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the research competence of this student on a scale from 1 to 5?

Is not research oriented	1	2	3	4	5	Is very research oriented
--------------------------	---	---	---	---	---	---------------------------

Tips and strong points for recipient to develop his/her competence in research competence?

Strong points

Tries to understand why we are doing things the way we are doing them.
Looks at what's best to implement in current situation.

Tips

Not sure, but sometimes I had the feeling you were thinking too complicated when trying to solve generating the line for the tracking.

Figure 33: Research competence feedback Mustafa by Yoshio

Feedback: Team Collaboration

Name of student: Damian de Hoog Completed by: Yoshio Schermer Signature assessor:	Date: 13-11-2018 Position assessor: Student/Team member Organisation:
Phone number and email address of assessor:	

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	4	5	Is an excellent team worker
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Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

Not afraid to ask nor to give status.
 Able to take lead.

Tips

There were some occasions in which someone else would take over your role as SCRUM-master when in daily standups. Tell them you take the lead.

Figure 34: Team Collaboration feedback Damian by Yoshio

Feedback: Team Collaboration

Name of student: Mohamed El Hadiyen		Date: 13-11-2018
Completed by: Yoshio Schermer		Position assessor: Student/Team member
Signature assessor:		Organisation:
Phone number and email address of assessor:		

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
 Student is able to lead, stimulate and motivate team members.
 Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	4	5	Is an excellent team worker
----------------------	---	---	---	---	---	-----------------------------

Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

Not afraid to ask nor to give status.
 Able to take lead.
 Wants to / does work together.
 Wants to / does help others.

Tips

Daily-standups might not be so effective for you, but it might / is for others. Therefore, you should do it anyway.

Figure 35: Team Collaboration feedback Mohamed by Yoshio

Feedback: Team Collaboration

Name of student: Mustafa Yucesan

Completed by: Yoshio Schermer

Signature assessor:

Date: 13-11-2018

Position assessor: Student/Team member

Organisation:

Phone number and email address of assessor:

Collaboration

Description: Student is able to produce results efficiently and effectively, in collaboration with team members.
Student is able to lead, stimulate and motivate team members.
Student is able to effectively consult with the client.

Tick the boxes below:

N= not observed, S=sometimes observed, O=often observed, x= not applicable

Attitude	N	S	O	x
Task-oriented collaboration: Effectively contributes towards a common outcome; has a clear overview of who needs to do what and when; delivers what is promised / agreed on; reflects on his/her own contribution, asks for advice; reflects on team member contribution, asks questions, gives constructive feedback	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Team-oriented collaboration: Contributes to the team spirit; involves team members in discussions and decision-taking, asks for their opinion; supports team members, offers (requested) help; timely asks for help; is open to feedback and suggestions; holds team members accountable for their actions by constructive criticism; addresses conflicts positively	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Team leadership: Takes the lead in task performance; analyses the team performance and suggests improvements; chairs meetings effectively and efficiently; stimulates and motivates team members in their task performance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is your final assessment of the collaboration of this student on a scale from 1 to 5?

Is not a team worker	1	2	3	4	5	Is an excellent team worker
----------------------	---	---	---	---	---	-----------------------------

Tips and strong points for recipient to develop his/her competence in team collaboration?

Strong points

Not afraid to ask nor to give status.
Able to take lead.
Wants to / does work together.
Wants to / does help others.

Tips

There were some occasions in which you talked when you shouldn't have:

- trying to be SCRUM-master when Damian was during daily-standups
- talking through me despite me telling you I was going to talk to the Product Owner (Ed)

After I told you that, didn't happen no more though. So, tip has been applied *thumbs up*.

Figure 36: Team Collaboration feedback Mustafa by Yoshio