

# Rescue on wheels process documentation

Team 2

Damian de Hoog 500780277

Yoshio Schermer 500760587

Mustafa Yücesan 500769574

Mohamed El Hadiyen 500777214

December 6, 2018

# Contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
<b>2</b>	<b>Cooperation agreement</b>	<b>4</b>
2.1	Communication . . . . .	4
2.2	Tools . . . . .	4
2.3	Roles . . . . .	4
2.4	Tasks . . . . .	5
2.5	Expectations . . . . .	5
2.6	Educational goals . . . . .	5
2.7	Daily stand-up . . . . .	5
2.8	Absence . . . . .	5
<b>3</b>	<b>SWOT Analysis</b>	<b>6</b>
3.1	Individual analyses . . . . .	6
3.1.1	Damian . . . . .	6
3.1.2	Mohamed . . . . .	7
3.1.3	Mustafa . . . . .	8
3.1.4	Yoshio . . . . .	9
3.2	Group analysis . . . . .	10
<b>4</b>	<b>Feedback forms</b>	<b>11</b>
<b>5</b>	<b>Educational goals SMART</b>	<b>47</b>
5.1	Damian . . . . .	47
5.2	Mohamed . . . . .	47
5.3	Mustafa . . . . .	48
5.4	Yoshio . . . . .	49
<b>6</b>	<b>Feedback based educational goals</b>	<b>50</b>
6.1	Damian . . . . .	50
6.2	Mohamed . . . . .	50
6.3	Mustafa . . . . .	50
6.4	Yoshio . . . . .	50
<b>7</b>	<b>Daily stand-ups</b>	<b>51</b>
<b>8</b>	<b>Coaching</b>	<b>51</b>
<b>9</b>	<b>Retrospectives</b>	<b>51</b>
<b>10</b>	<b>Impediments</b>	<b>51</b>
<b>11</b>	<b>Communication with the product owner</b>	<b>51</b>

# **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 and finally any problems encountered during the project.

## 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 made agreements and agreed upon 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 isn't 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 text 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
- IntelliJ - 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 like so:

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

### 3.1.2 Mohamed

	Helpful (to achieve the objective)	Harmful (to achieve the objective)
Internal origin (Personal attributes)	<ul style="list-style-type: none"> <li>• 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.</li> <li>• I like to help my colleagues if they get stuck with their task during a project</li> <li>• I am capable of having a stable communication with my colleagues, because I am known to be a very social and kind person.</li> <li>• I am totally open to sharing my knowledge with someone else.</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• I have a hard time to wake up in the morning because I am definitely not a morning person.</li> </ul>
External origin (Environmental attributes)	<ul style="list-style-type: none"> <li>• I would like to meet new people to broaden my network in the future.</li> <li>• I will be able to learn about new technologies on hardware.</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• As I am a excellent student, I may get more pressure from my non-excellent students in the project, which could affect me badly.</li> </ul>

### 3.1.3 Mustafa

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



### 3.1.4 Yoshio

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

## 3.2 Group analysis

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

## 4 Feedback forms

This chapter contains the feedback forms submitted to our coach and discussed during a coach meeting. The forms have been arranged in order of the person who filled out the forms e.g. all forms filled out by Damian are grouped together, all forms filled out by Mohamed as well et cetera.

Feedback: Professional Ethics and Social Awareness	
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:	

### 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 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				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?

<p>Strong points:</p> <p>Bekommert zich veel om hoe anderen zich voelen door bepaalde acties en probeert een oplossing te vinden waarbij iedereen zich eerlijk behandeld voelt.</p>
---

<p>Tips:</p> <p>Let op wie er aan het praten is en weer geduldig</p>
--

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
<b>Analysis and critical thinking :</b> 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"/>
<b>Research:</b> 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"/>
<b>Creativity:</b> 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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>
<b>Analysis and critical thinking :</b> 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
<b>Research:</b> 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"/>
<b>Creativity:</b> 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?

<b>Is not research oriented</b>				<b>4</b>		<b>Is very research oriented</b>
---------------------------------	--	--	--	----------	--	----------------------------------

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

<b>Strong points</b> Kan goed analyseren en kritisch nadenken over gecreëerde oplossingen
--

<b>Tips</b> Probeer verschillende perspectieven te benaderen voor een bredere kijk op dingen.
--

Figure 5: Research competence feedback Mustafa by Damian

### Feedback: Research Competence

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>
<b>Analysis and critical thinking :</b> 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
<b>Research:</b> 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"/>
<b>Creativity:</b> 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?

<b>Is not research oriented</b>					<b>5</b>	<b>Is very research oriented</b>
---------------------------------	--	--	--	--	----------	----------------------------------

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

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

#### 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
<b>Task-oriented collaboration:</b> 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"/>
<b>Team-oriented collaboration:</b> 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"/>
<b>Team leadership:</b> 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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
<b>Task-oriented collaboration:</b> 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"/>
<b>Team-oriented collaboration:</b> 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"/>
<b>Team leadership:</b> 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:

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					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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
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?

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

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:	<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	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 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

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

#### 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

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

#### 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
<b>Analysis and critical thinking :</b> 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"/>
<b>Research:</b> 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"/>
<b>Creativity:</b> 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

- 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

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

#### 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"/>	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
--------------------------	---	---	---	---	---	---------------------------

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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
<b>Task-oriented collaboration:</b> 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"/>
<b>Team-oriented collaboration:</b> 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"/>
<b>Team leadership:</b> 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?

<b>Is not a team worker</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>Is an excellent team worker</b>
-----------------------------	----------	----------	----------	----------	----------	------------------------------------

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"/>	<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 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
----------------------	---	---	---	---	---	-----------------------------

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

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

#### 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
<b>Task-oriented collaboration:</b> 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"/>
<b>Team-oriented collaboration:</b> 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"/>
<b>Team leadership:</b> 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
----------------------	---	---	---	---	---	-----------------------------

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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
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?

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

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

<p><b>Strong points</b></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><b>Tips</b></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>
--

Figure 19: Professional Ethics feedback Damian by Mustafa

### Feedback: Professional Ethics and Social Awareness

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
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?

<b>Demonstrates poor Professional Ethics and Social Awareness</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b> <b>(x)</b>	<b>5</b>	<b>Demonstrates excellent Professional Ethics and Social Awareness</b>
---	----------	----------	----------	------------------------	----------	--

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

<p><b>Strong points</b></p> <p>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.</p>
---

<p><b>Tips</b></p> <p>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.</p>
---

Figure 20: Professional Ethics feedback Mohamed by Mustafa

### Feedback: Professional Ethics and Social Awareness

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
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?

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

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

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

#### 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
<b>Analysis and critical thinking :</b> 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
<b>Research:</b> 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
<b>Creativity:</b> 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

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

#### 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
<b>Analysis and critical thinking :</b> 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
<b>Research:</b> 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
<b>Creativity:</b> 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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
<b>Task-oriented collaboration:</b> 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"/>
<b>Team-oriented collaboration:</b> 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"/>
<b>Team leadership:</b> 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 checked="" type="checkbox"/>	<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?

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

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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
<b>Task-oriented collaboration:</b> 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"/>
<b>Team-oriented collaboration:</b> 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"/>
<b>Team leadership:</b> 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?

<b>Is not a team worker</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>x</b>	<b>5</b>	<b>Is an excellent team worker</b>
-----------------------------	----------	----------	----------	----------	----------	------------------------------------

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
----------------------	---	---	---	---	------	-----------------------------

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

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

#### 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>	<b>N</b>	<b>S</b>	<b>O</b>	<b>x</b>
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 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 professional ethics and social awareness of this student on a scale from 1 to 5?

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

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.

#### 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

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

#### 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
<b>Analysis and critical thinking :</b> 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"/>
<b>Research:</b> 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"/>
<b>Creativity:</b> 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

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

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

#### 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
<b>Analysis and critical thinking :</b> 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"/>
<b>Research:</b> 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"/>
<b>Creativity:</b> 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?

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

<b>Tips</b> 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

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

#### 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

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

#### 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
<b>Task-oriented collaboration:</b> 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"/>
<b>Team-oriented collaboration:</b> 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"/>
<b>Team leadership:</b> 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
----------------------	---	---	---	---	---	-----------------------------

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

## 5 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 been, where applicable, expanded upon with whether or not they have been successfully fulfilled or are in need of some more work.

### 5.1 Damian

- Professioneel vakmanschap: 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.
- Onderzoekend vermogen: 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.
- Leervermogen: 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.
- Communicatief vermogen: 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.
- Beroepsethiek en maatschappelijke oriëntatie: During this project I want to refrain from implementing unethical features.
  - Succes, Flamethrower was not implemented.
- Samenwerken: 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.

### 5.2 Mohamed

- Professioneel vakmanschap: 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.
- Onderzoekend vermogen: 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.

- **Leervermogen:** 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.
- **Communicatief vermogen:** 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.
- **Beroepsethiek en maatschappelijke oriëntatie:** 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.
- **Samenwerken:** 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.

### 5.3 Mustafa

- **Professioneel vakmanschap:** 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.
- **Onderzoekend vermogen:** 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.
- **Leervermogen:** 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.
- **Communicatief vermogen:** 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.
- **Beroepsethiek en maatschappelijke oriëntatie:** 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.



- Samenwerken: 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.

## 5.4 Yoshio

- Professioneel vakmanschap 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.
- Onderzoekend vermogen In this project I want to make a document describing the days/weeks that team members are (un)available and when the probability that theyâ€™re busy or sick is high/low, so we can adjust our Sprints to this.
  - Success, uploaded on google drive ( Link at the start of this document, Tools).
- Leervermogen 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 didnâ€™t know before of.
  - Working on it, missing a few points from Damian and Mohamed.
- Communicatief vermogen 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.
- Beroepsethiek en maatschappelijke oriëntatie At the end of this project I will document at least one possible implementation and describe that itâ€™s unethical to implement.
  - Success, uploaded to our google drive.
- Samenwerken In this project I will ask members of the team how theyâ€™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.

## **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 thus have not 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**

### **6.3 Mustafa**

### **6.4 Yoshio**

- 7 Daily stand-ups**
- 8 Coaching**
- 9 Retrospectives**
- 10 Impediments**
- 11 Communication with the product owner**