Distributed Software Development

Final Questionnaire

First and last name	Andrea Bottoli
Country you are from	Italy
Course location (FER / MdH / POLIMI)	POLIMI
Project name	Real-Time Bridge Monitoring
Your role(s) in project	Project Manager, Team Leader, Developer

Local site

Rate the overall quality of work coordination at the local site (0-no local	0
communication, 1-very bad, 10-flawless)	0

Describe good experiences

- Learn new skills
- Lead a distributed group
- Manage the communication between the group, the customers and the supervisors

Describe problems and what caused them

- Problems in gather requirements
 - they changed a lot during the time cause the customers asked us to fit out product to European normative EU 305/2011 and Italian normative NTC 08
 - the language used was not the same because they are Structural Engineers and we are Computer Engineer. Then we encountered some problem in comprehension
- Problem with Ghazaleh
 - she didn't have enough skills (she is a Telecommunication Engineer) to stay on track with the project; moreover, she had too lot courses to follow, so she decided to left the group

Describe the intensity (not quality!) of collaboration with each of the local team members	
with the number 0-5; 0-no contact at all, 5-very intensive collaboration	
Local team member Intensity (0-5)	
Lorenzo Pagliari	5
Ghazaleh Shojaee Nia	1
Marko Brcic	3

Describe how that collaboration changed over time (and in different project phases)
The communication was more or less the same during all the phases of the project

Remote site

Rate the overall quality of work coordination with the remote site (0-no	Q
remote communication, 1-very bad, 10-flawless)	8

Describe good experiences

- Work with very skilled people
- Funny meetings
- All the people was available all the time and they worked a lot all the days
- Improved technical language speaking in English all the time
- Learned a lot of other cultural aspects
- Learned a lot of other skills
- Encountered the Swedish team in Sweden for the final presentation

Describe problems and what caused them

• Some minimal problem in make requirements from customers understandable for the whole team caused by the language used

Describe the intensity (not quality!) of collaboration with each of the remote team	
members with the number 0-5; 0-no contact at all, 5-very intensive collaboration	
Remote team member Intensity (0-5	
Dzana Kujan	5
Nikola Radisavljevic	3
Miraldi Fifo	3
Jorn Tillmanns	4

Describe how that collaboration changed over time (and in different project phases)

• The communication initially was not very good cause I didn't know how to approach the group; then I received some suggestions from the group on how they prefer to be leaded and from then to now the communication has been very good

Communication

Rate (1-low usage, 5-very intensive usage) and describe which communication tools		
have you used for communication and their usefulness, and in which project phases		
(requirements, design, development, testing, documentation etc.)		
Tool	1-5 Project phases and tool usefulness	
Skype	4	Tool used for direct chat with the group
Google Hangout	4	Tool used for face to face meetings
Google Drive	2	Tool used for sharing the initial drafts of the documents
Github Issues	4	Tool used to assign tasks to each memeber of the group

Describe how you prepared for team meetings

- Meetings scheduled in a "final" way: every monday and tuesday
- Meeting agendas to summarize the issues of the meeting before held id
- Issues on github to remember to the group the date of the meeting
- Chat on skype to postpone or arrive to an agreement over some changes upon the meeting scheduel
- Managing meeting with Dzana to keep track of the managing stuffs and to receive some suggestions to improve the quality of the meetings

Project work

What are, in your or	pinion, important issues in group work and why?
Issue	Why?
Communication	It is necessary have a good communication to coordinate a
	distributed team; moreover if we have a lot of communication, we should have less misunderstandings.
Organization	A good organization is necessary to respect the deadlines and to prepare all the works in time.
	We did our best to improve our organization and all the deadlines were respected with, in my opinion, very good results.
Behaviour	Be friendly, not aggressive.
Benaviour	Our group were always a friendly group, we had a lot of funny meetings and we joking a lot (not only work, I mean); we worked always with the smile and for the final presentation me and Lorenzo stayed in Dzana and Nikola home to spend some days
	together.
A common knowledge base	Is important that most of the team member have common knowledge base to understand what the other members are talking about.
	In our group when someone explain an idea, all members were able to follow the discussion; then, if someone doesn't know something, he ask and learn from someone else which knows that thing.
Availability	Availability to work with other people from different nations, culture and languages. Availability to work on communication problems. Be available if someone has some problem; try to understand him and try to help him.
	In our group, except a local isolated case, all members were available and willing to work hard (also all night long) to reach the result.

What were the causes of conflicts and how were they resolved (if they were resolved ③)?

We had some conflicts with a team member that was not very available and that was very aggressive and sometime offensive; then that team member left the group because too much things to do. From then, we didn't have any other conflicts.

Rate and describe how pleased were you regarding information flow in your project team, had you been aware of overall project state, important information and events during the project work or did you feel isolated (1-kept in the dark, 5-completely aware)

1-5 Description

We took all the decisions all together and each member were welcome to make proposals, suggestions and so on.

During the meetings the first task is to update everyone on the project status, in order to be on track with the whole group and to avoid to left someone alone.

Plus, I had a lot of chat meetings with all the member of the group to keep them on track and to ask them if they need some help or further explanations.

Rate	Rate and describe have you been aware about other people roles and their work status (1-	
had n	had no idea about other people's work, 5-completely aware)	
1-5	Description	
	I was the project manager/leader so it was my role to be updated on what each one	
5	was doing. Plus, during each meeting, each member explained what was his status	
	and what he was doing.	

Rate and describe have you been satisfied with your role in the project and tasks you have been assigned during the project (1-very dissatisfied, 5-very satisfied)

1-5 Description

I like a lot manage the group and also develop a real project; it was very hard take decisions, give "orders" and so on, but I'm very happy of this experience.

Rate	Rate and describe how much you could affect the project decisions (design, usage of	
certai	certain technologies etc.) (1-nobody listened to my suggestions, 5-my suggestions were	
alway	ys taken into consideration)	
1-5	Description	
	Everyone during the project was welcome to propose his suggestions and most of	
5	the time the decisions taken was a union of the proposals of each team member;	
	plus, everyone was very available to listen my opinion and my suggestions.	

Describe the way decisions were made in your project: where there was a single authority that made the decisions and was that authority respecting feedback from other team members, or were you using voting, or consensus had to be reached etc. Also rate (1-our decision process turned to be very bad and degraded the project work, 5-the process was excellent and helped the project work a lot) and describe was that way a good one for your project or not.

1-5	Description
5	We took decisions all together the most of time. Sometimes on some proposals of someone, if no one was able to provide him a feedback or an opinion, we let him free to decide by himself.

Rate	Rate (1- no clear requirements, 5-very clear requirements) and describe how clear the		
initia	l requirements were.		
1-5	Description		
1	At the beginning of the project the requirements was not very clear because also the customers didn't know very well what they wanted; with a lot of meetings we understood what they want, and then we arrived to define the final requirements with a lot of effort.		

Rate (1-no or minor changes, 5-huge changes) and describe the level of requirement				
changes during the project				
1-5	Description			
5	The requirements changed a lot during the project because every week our customers asked us more functionalities to fit more with their needs; by the way, finally we arrived at a common final point and we could be able to define much better what we had to do.			

Describe the process you used in the project (waterfall/iterative/prototyping/agile/model driven/test driven ...). Why have you selected that particular process? How did it turn out – good or bad?

We used waterfall model for the firsts part of the project (documentation – project plan, design and requirements), and SCRUM for the development phase because we needed a lot of internal interactions to develop a good work.

How much (0-no new things, 5-too many new things) you had to learn new technologies/tools/etc. to be able to do your work in the project? Describe what you had to learn.

1-5 What you had to learn

I learned how to manage a distributed group in a good (I hope) way, how to lead a team and how to integrate the customer needs with the group needs.

Plus I learned also how to approach "formal" presentation, like at work ("real" work in real world and not only university one).

4 Then I learned a lot above Quartz scheduler and Apache-Tomcat server, and how integrate a Java engine with a MySQL Database, with a site (HTML, javascript and jQuery).

Finally, I learned a lot above other cultures, other countries and other way of

think, which is, in my opinion, very important and very nice.

What is your final opinion on distributed software development (not on this DSD				
course!), given in number from 1 (distributed development is useless) to 5 (distributed				
development is the best), and why?				
1-5	Why?			
5	It permits you to get in contact with other people and other cultures, other			
	countries and so on.			
	Plus, it learn you to think in different ways and manage difficulties that in a local			
	team you never encounter.			

What was the influence of your project system architecture on work division and task allocation?

Our system has layered architecture so the division of the roles and the assignment of the tasks were pretty easy.

What were the experiences in integration of your task(s) with other project parts? I was fully integrated with all the tasks of the project, because my role required to stay updated with the entire status of the project and with the status of each member of the team. Plus, I developed parts in Java, parts in SQL, I developed the fist jobs of the scheduler so I was involved more or less in every part of the project.

What factors motivated you, and why, for working on your project (and their strength 1-			
minor, 5-strong motivation)			
Motivating factor			
Good experience			
Learn how to manage a distributed team			
Learn how to manage a local team			
Learn how to work all together in a distributed team			
Lear how to present in front of someone my work in English			
Improve my skills			
Improve the quality of my English			
Work on a real project			
Talk with structural engineers and reach agreement above the product			
Develop a project which is the first to fit with European and Italian directives on structural engineering			

What factors demotivated you, and why, from working on your project (and their strength		
1-minor, 5-strong demotivation)		
Demotivating factor	1-5	
I was afraid to take bad decisions	4	
I was afraid to lead the group in a bad way		
I was afraid to do bad presentations		
I was afraid to talk in a bad way (my English was not very good)		
I was afraid to not be enough skilled		
I was afraid to be too much dictatorial or not very friendly 4		

Analyze the differences between predicted and actually invested work hours on the project. What caused the difference (if there was a difference)?

I spent a lot of hours in leading the group, explaining them what the customers wanted and trying to do my best to realize a good work; I spent a lot of hours also due to changes in requirements than I expected before start the course.

What would you do differently if you were to participate in another distributed project (based on your experience from this project)?

Probably I will take different decisions in trying to satisfy the customers desires; then now I know (more or less) how to lead a group so I will start in a faster way.

This experience is the best I have until now; I learned a lot, I met other people, I talk with "real" customers and I was under control of "real" supervisors; it is like a real work experience.

Plus, this course was very clear, with defined deadlines and with detailed guidelines, so it was a very good course.

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How would you describe cultural differences you have observed	
(choose from: no differences/low/medium/high)?	

Describe cultural differences have you observed and rate their impact on project work				
with a number 0-5 (0-no impact on project work, 5-high impact)				
Difference	Description	0-5		

For project and team leaders only

Describe your experience regarding high level team coordination (task assignment, task synchronization, communication with team members, coordination with remote team,

etc.)				
Risk assessment - have you foreseen all risks that happened during the project, how did you handle them, which risks you have not planned for, what was their impact on project schedule, product quality, etc?				
How much time (in %) was spent on different design, development, testing, documenting e				
Project phase Time (%)				
TOTAL	100 %			

Speaker's Corner

Answers to questions we have not posed. Feel free to write about anything you find important, but haven't had a chance to do it in answers to previous questions!