

Name: Anna Ryzova, Team: Group 18, Sprint #: 1, Date: 12.03.2018 – 03.04.2018

Percentage of group submission:

It is difficult for me to establish my percentage for this project. My main contribution was attempting to align processes according to Scrum, preparing and organising the notes and addressing issues. I had much less technical involvement than I planned.

Skills practised

Hard skills:

- Analysis – a lot of information and actions to analyse
- Research – reading on both technical and project organisation and management
- Programming – some tasks were new to learn, generally this project was very advanced
- Project Management – I have some experience in PM, enjoyed this part of our project

Soft skills:

- Critical thinking – was required on ongoing basis for a project of such complexity and length
- Conflict resolution – keeping the right balance, identifying solutions that all support
- Time-management – this skill was very much demanded for the project's success
- Teamwork – the most important one for Scrum, in my point of view

Learning done

- Scrum!
- Additional daily readings on project management and teamwork
- New technical aspects
- Developing effective communication

Goals:

- Get to know more about Scrum, practise it and implement in everyday life
- Use technology learned during this project in future assignments

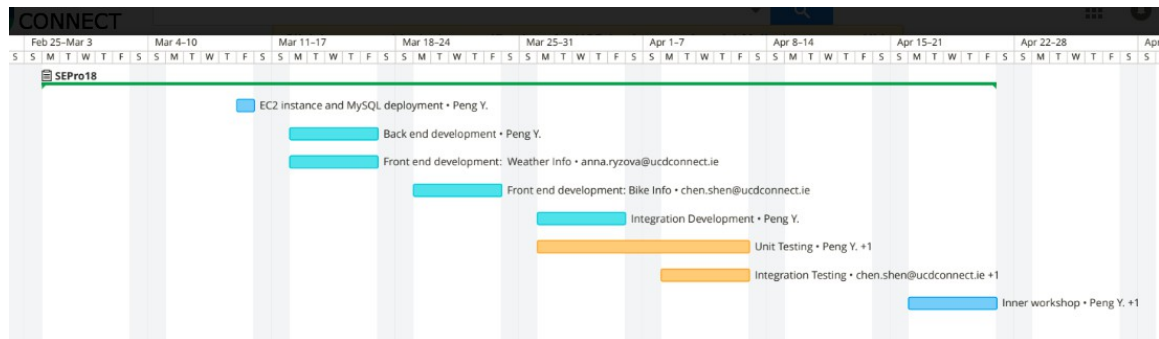
- Take a Project Management course. Had been looking at PRINCE 2 for some time now

Project Management

1. Design, planning notes and materials

Our planning during Sprint 1 was largely based on the slides from the Project Description and Project Advice files from Moodle.

Our initial project planning:



Key	Folder	Parent task	Title	Workflow	Status	Custom status	Priority	Assigned To
1	/		Integration Testing	Agile Teamwork	Active	Testing	Normal	Invited user <chen.shen@ucdconnect.ie>
2	/		Integration Development	Agile Teamwork	Active	Development	Normal	Peng YE <peng.ye@ucdconnect.ie>
3	/		Back end development	Agile Teamwork	Active	Development	Normal	Peng YE <peng.ye@ucdconnect.ie>
4	/		Inner workshop	Agile Teamwork	Active	New	Normal	Peng YE <peng.ye@ucdconnect.ie>
5	/		Unit Testing	Agile Teamwork	Active	Testing	Normal	Peng YE <peng.ye@ucdconnect.ie>
6	/		Front end development: Bike Info	Agile Teamwork	Active	Development	Normal	Invited user <chen.shen@ucdconnect.ie>
7	/		Front end development: Weather Info	Agile Teamwork	Active	Development	Normal	Invited user <anna.ryzova@ucdconnect.ie>
8	/		EC2 instance and MySQL deployment	Agile Teamwork	Active	New	Normal	Peng YE <peng.ye@ucdconnect.ie>
9	/		Backlog	Agile Teamwork	Workflow			
10	/Backlog/		Collect feedback	Agile Teamwork	Active	New	Normal	
11	/Backlog/		Release to production	Agile Teamwork	Active	New	Normal	
12	/Backlog/		Final testing & release preparation	Agile Teamwork	Active	New	Normal	
13	/		Completed Sprints	Agile Teamwork	Workflow			
14	/Completed Sprints/		Completed Sprint/Sprint 00/	Agile Teamwork	Workflow			
15	/Completed Sprints/Sprint 00/		Sample task from a completed Sprint	Agile Teamwork	Completed	Completed	Normal	
16	/		Current Sprint	Agile Teamwork	Workflow			
17	/Current Sprint/		Develop front-end logic	Agile Teamwork	Active	Development	Normal	
18	/Current Sprint/		Develop front-end markup	Agile Teamwork	Active	Development	Normal	
19	/Current Sprint/		Develop server-side handle	Agile Teamwork	Active	Testing	Normal	
20	/Current Sprint/		Prepare for release	Agile Teamwork	Active	Reopened	Normal	
21	/		Next Sprint	Agile Teamwork	Workflow			

Issue:

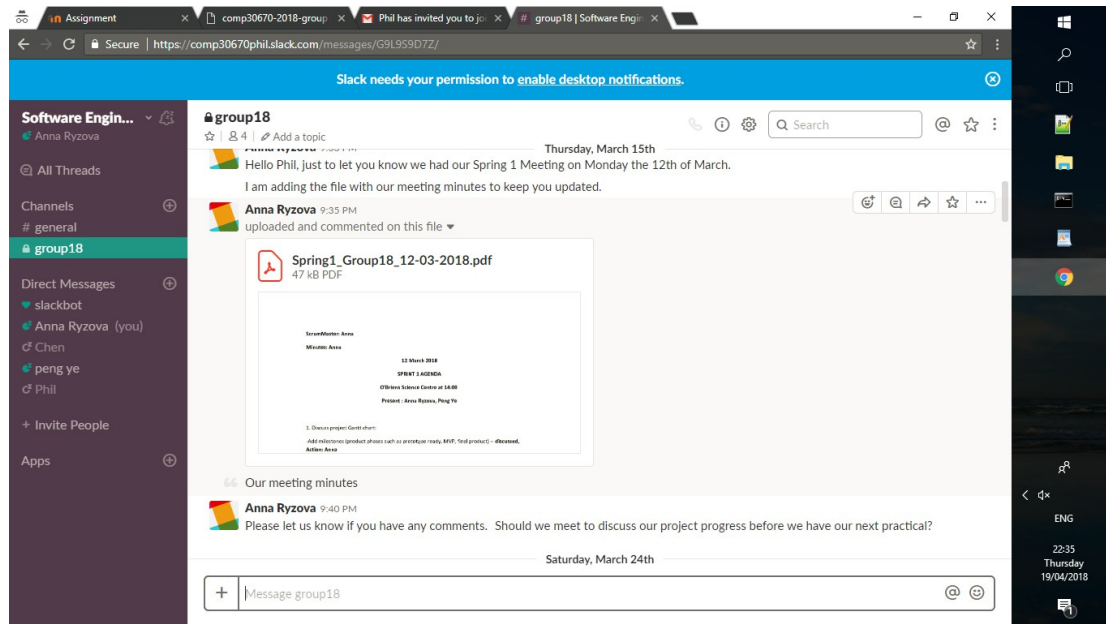
- We should have had created the detailed backlog – the features list, and broken each feature into small tasks before we started development. We should have worked as a Scrum team on that

Solution:

- Discussed at the end of Sprint 1 for implementation in Sprint 2

2. Scrum project management (trello board, slack logs, google docs, etc)

Most of our communication was in the Facebook chat. We had a Slack group created by Phil, and we moved our discussions there later. Daily discussions were held in this workspace from the 15th of March.



We also used Slack for general project discussions:

group18 4 | Add a topic Tuesday, March 27th

peng ye 5:39 PM
Hi All, I am thinking about if we need to insert more information onto our RDS because currently we only have 2 tables: bike and weather in the table bike, we only have the current bike stations information. However, we might also need the previous bike information storing in our DB. What do you guys think? Do you guys think we do need to add the third table storing historical bike station information onto RDS?

Chen 5:43 PM
And do we need to display the third table's information to the web?
To use a chart or other format


peng ye 5:44 PM
It looks that this is as per requirement. But I am not sure if you have time to display on this
Is that easy to add this feature into your code so far?

Chen 5:46 PM
So add this feature to the map together?

peng ye 5:46 PM
yes, that will be great if you will

Chen 5:47 PM
Ok, I will try and you can add it to the database first and I also need the json file

peng ye 5:49 PM
uploaded this image: [Screen Shot 2018-03-27 at 5.47.57 PM.png](#)



group18 4 | Add a topic Tuesday, March 27th

peng ye 6:53 PM
Hi, I just finished updating on EC2 server and RDS. The new table is bikeStationHistory. The data inside the table is incremental because it will add new station record according to the timestamp. You can access RDS to see this new table.
Shen, I didn't change the columns on bikeStationHistory. So, you can use the same MySQL query like bikeStation.

Chen 7:49 PM
No problem

Anna Ryzova 10:20 PM
Hello, thank you for this information

Anna Ryzova 10:31 PM
As for the table, I think there is no need for a separate third table. You use a current date to filter information from the bikes table. What can be done is - when you add a new data to make sure that you delete records that are older than X (weeks? months?) So you will have only one table for the bikes but it will store all data, both current and historical. Current date defines the filter point.
So, today is a current date but tomorrow it will already become a historical date.

Wednesday, March 28th

peng ye 5:24 PM
Shen and me prefer using separated tables because both of us think it will be easy to access the current day data

Chen 5:24 PM
Peng, I need to connect some variable data from the database

peng ye 5:24 PM
yes

3. Meeting notes (log of daily standup, notes from sprint reviews, retrospectives)

Initially we had several standup meetings in college. We moved them online to our Facebook chat after.

Daily Online Meeting Log for Sprint 1:

Group 18					
Mentor: <u>Philipp Wicke</u>					
Members: Anna <u>Ryzova</u> , <u>Peng</u> Ye, Chen <u>Shen</u>					
Software Engineering Project					
Online Daily Meetings starting from 29.03					
(We held our discussions in a Facebook chat before that date)					
https://comp30670phil.slack.com/					
N	Date	<u>Peng</u>	<u>Chen</u>	<u>Anna</u>	C
1	29.03	1. Learn Scrum from Professor during practical meeting Tomorrow: <ul style="list-style-type: none">1. Work with <u>chen</u> on Spring plan meeting2. Work with <u>chen</u> on EC2 and RDS deployment	1. Learn to use the flask to fetch the data and we should change the way to continue our project. Tomorrow: <ul style="list-style-type: none">1. Will run the flask in my environment with the help of <u>Peng</u> and finish the part of adding in bike station info into the google map and try to draw the pictures about the history bike station2. work with <u>peng</u> on EC2 and RDS deployment	1. Learn Scrum from Professor during practical meeting Tomorrow: Start working remotely on the Project plan revamp.	✓
2	30.03	1. I worked with Chen on EC2 instance's deployment with <u>Chen's</u> account, we resolved some problems on that and the EC2 instance can run flask and <u>mysql</u> inserting jobs <u>automatical</u> , it looks about 2 hours in total <ul style="list-style-type: none">2. <u>chen</u> and me discussed on one difficulties on <u>bikeinfo</u> map displaying. It was not fixed yet. We need to move all code on to EC2 instance for the further investigations. Tomorrow: <ul style="list-style-type: none">1. Sprint plan2. <u>bikeinfo</u> map	1. I install our work to the EC2 with the help of <u>Peng</u> and talk about the flask and web application Tomorrow: <ul style="list-style-type: none">1. We will meet at <u>uust</u> in 10:00 am2. <u>Peng</u> and me plan to talk about the Sprint plan and solve some technical problems like how to use flask to connect database and use the flask to fetch the data and apply in the web app	1. Created a separate document for our daily online meetings at 8pm Tomorrow: <ul style="list-style-type: none">1. I will start on our Sprint plan too, and will finalize my points for the new Project plan for Monday.	✓

	displaying data			
31.03	<p>1. Worked with Chen on Sprint Plan and project design, we finished high level design on both front-end and back-end (3 hours)</p> <p>2. I wrote document on Data Analytics Requirement and Draw a structure figure on Back-end (2.5 hours)</p> <p>3. today, we also discussed on timestamp conversion method (0.5 hour)</p> <p>2. 1. write the detailed design on both back-end and front-end, and also make details on Data Analytics Requirement (1.5 hours)</p> <p>2. write schedule jobs with those details, not for individuals, just roadmap (1.5 hours)</p>	<p>Today:</p> <p>Today, Peng and me use three hours to talk about our data analysis requirements and the rough design of back-end and front-end.</p> <p>Tomorrow:</p> <p>Tomorrow, Peng and me will meet at 10 am and talk about how to realize displaying the data and the functions of back-end and front-end.</p>	<p>Today I finalized my points for our Monday meeting. Tomorrow I will look at the second task of the weather part (graph). Everything is ok, no issues so far.</p>	✓
1.04	<p>Today's work:</p> <p>1. Worked with Chen</p>	<p>1. Today Peng and me have a talk about the DataAnalytic</p>	<p>1. Today I looked at the second part of the</p>	✓

		<p>on details of Data Analytic Requirement and the details of Front-end part. We revised some contents of yesterday's draft and we enriched many new contents as well. (2.5 hours)</p> <p>2. I integrated both Chen and My ideas onto 2018 Project Design and Plan (1.5 hours)</p> <p>3. I worked with Chen on integrating his bike demo onto EC2 flask server. And I showed the method on using flask python instructions to create virtual domain and folder. (20 minutes)</p> <p>Tomorrow work:</p> <p>1. Keep on discussing on 2018 Project Design and Plan, we will focus on Back-end part details and if it is possible, we will also discuss on weather info web page with Anna. Moreover, we might need to list all the necessary tasks and the related schedule based to our left project working days. (2 hour)</p> <p>2. Document on the tomorrow discussion results onto 2018 Project Design and Plan. (1~2 hours)</p>	<p>Requirement and the details of Front-end part. And we have a more clear picture about our project.</p> <p>2. Tomorrow, all of us will have a meeting together and talk about our project plan and detail the features in the next few days.</p>	<p>weather (graph) and broke it into tasks. Revised the new project plan</p> <p>2. Tomorrow we'll meet at 11 to finalize the new plan.</p>	
5	2.04	<p>Today's work:</p> <p>1. Having meeting with Anna and Chen and went through on the meeting agenda (1.5 hours)</p> <p>2. Wrote back-end features document (1 hour)</p> <p>Tomorrow:</p> <p>1. Meet with Professor and Philip to discuss more about our project's details.</p>	<p>Today, Anna, Peng, and me discuss the project plan and go through the meeting agenda. And we also talk about the front-end features and I use 1 hour to write down the features into a file.</p> <p>Tomorrow, we will have the Sprint 2 meeting and discuss the front-end features. And then we can start our features after the meeting.</p>	<p>Today:</p> <p>1. we had a meeting and discussed our new Project plan and Design.</p> <p>2. I emailed the minutes of this meeting to all of us. Please follow them and take an action if needed.</p> <p>Tomorrow:</p> <p>we'll meet during our practical to discuss our backlog. Will we have our Sprint 2 meeting tomorrow</p>	✓

		2. Front-end design and plan discussion or development			
6	3.04	<ol style="list-style-type: none"> Resolved the problem of Marker displaying on google map (2~3 hours) Have sprint meeting with Professor (30 minutes) Update back-end Features on document (30 minutes) <ol style="list-style-type: none"> <ol style="list-style-type: none"> Meeting with Chen and Anna (20 minutes) work on Bike station feature's implementation (2 hours) 	<ol style="list-style-type: none"> Today, we have the Sprint 2 meeting with the teacher. And I renew the features which need to be finish in the second period. We need to focus on the charts together in the few days. Tomorrow, we should start the feature of P1 level. After finishing the backlog, we can decide the feature we need to do tomorrow 	<p>Today we had our Sprint 2 meeting and I put together a new backlog, our meeting agenda and the minutes.</p> <p>Tomorrow I need to get some insight on what task am I responsible for and start doing it.</p>	✓

We had our Sprint 1 meeting on the 12.03.

Here are the minutes of this meeting:

ScrumMaster: Anna

Minutes: Anna

12 March 2018

SPRINT 1 AGENDA

O'Briens Science Centre at 14:00

Present : Anna Ryzova, Peng Ye

1. Discuss project Gantt chart:

-Add milestones (product phases such as prototype ready, MVP, final product) – discussed,
Action: Anna

2. Who does the intergration and when? - Action: provisionally - Peng

3. Who does the overall testing? - Action: provisionally: Anna&Chen

4. Two weeks are empty on the plan - we should add something to look it professional. - add code revision? Action: Anna

5. ScrumMaster for each Sprint? - Action: next ScrumMaster – Peng

6. Product backlog: task identification and time allocation. Action: Peng to update, Anna to add

7. Today's spring questions:

Peng's part: deployment on server and DB – finished

- What features are not working so well? - all work well, no action needed

- Should the Product Backlog be changed? - yes, Action: Peng and Anna

8. Commit source code – done by Peng

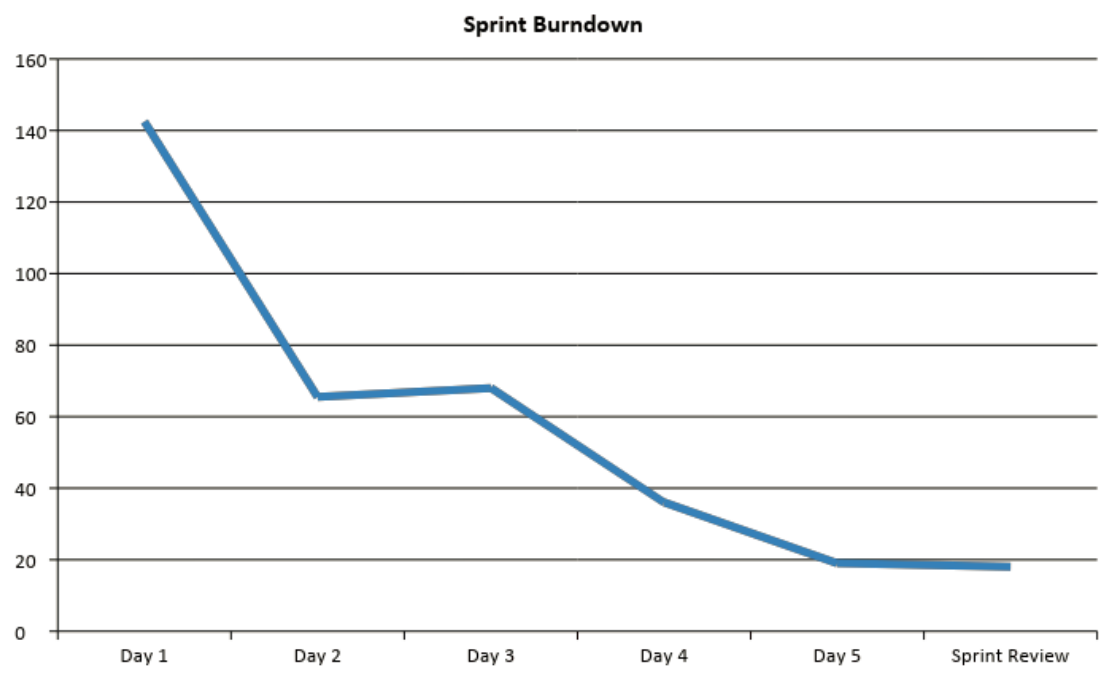
- Your team's Sprint Notes – done by Anna

- Your individual Learning Journal – discussed, Action: All

10. Action points – start next part on weather from 12.03.2018 till 18.03.2018, Action: Anna

- Identify the main features (rain, temperature, wind, number of hours for the forecast displayed) – done, Action: Anna

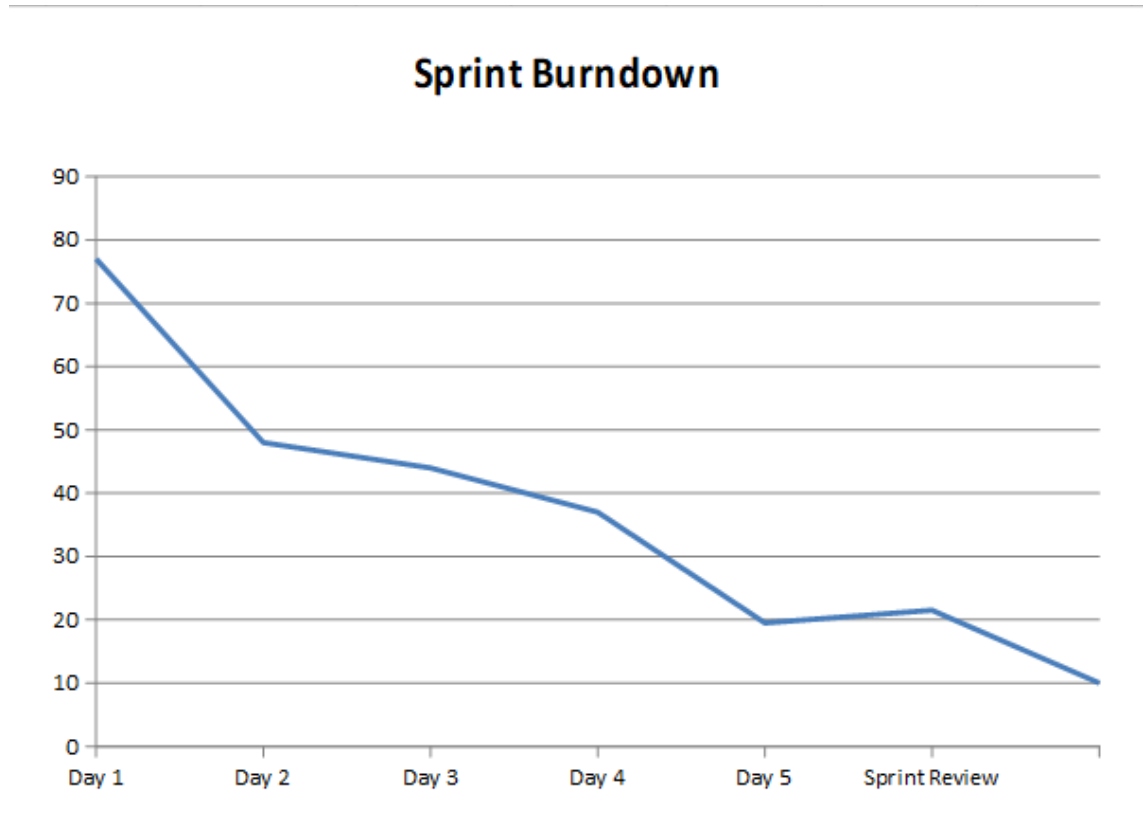
Burndown 1:



Backlog 2 (Anna):

2	Anna's User Story	1									
3	Weather read from JSON file – simple	AR	Completed	2	3	0	0	0	0	0	0
4	Adding weather icons	AR	Completed	1	0	4	0	0	0	0	0
5	Filtering JSON records by date	AR	Completed	3	0	0	2	2	0	0	0
6	Filtering JSON records by location	AR	Completed	3	0	0	0	0	3	0	0
7	User Tests	AR	Completed	3	0	0.5	0.5	0.5	1.5	0	0

Burndown 2:



Issue:

- We had no single backlog, no meeting with our Product Manager until after the Reading Week and were generally working on separate tasks

Solution:

- Discussed with our Product Manager and Dr. Lawlor. Decided we need to identify the features, create a single backlog and start working as a Scrum team

Managing deliverables, prototypes

Deliverables were on time as per our Backlog 1 and Backlog 2.

Prototype was scheduled for the 5th of March as per requirement. We did not get to a prototype stage during Sprint 1.

Process notes

Other Issues during Sprint 1:

- Daily meetings in our Facebook chat were long and included discussions of all problems
- Facebook chat was generally not the best tool as our Product Owner had no access to it
- Scrum concept was not always clear
- Communication was not always productive

Solution: Anna contacted Dr.Lawlor and requested a meeting to discuss the dynamics of our project. Following this meeting, further discussion took place during next practical. Advice given by Dr.Lawlor:

- Focus on Scrum, create and follow the backlog
- Think about the features, figure out what they are
- Think about how to get it function
- Do not separate tasks, work on them together and iterate them
- Work as a team, taking tasks the top of the pile by priority
- Add functionality in small incremental steps
- Continuous integration
- Planning happens during Sprint meeting and does not change for a 2-week Sprint
- Always have your design planning during meetings, review at the end of each Sprint

What went well:

- We were all enthusiastic about getting this project to work. We attempted to manage this project to the best of our knowledge and understanding
- A lot of thinking happened and many lessons were learned
- We spent a good amount of time on this project and had a daily involvement
- We had a bit of a challenge and every challenge is a chance

Communication notes

We had 3 main communication channels: a Facebook chat, Slack workspace and email.

We also had a lot of personal interaction on this project, and there was a great interest and involvement of everyone in a team.

Generally, we spent a lot of effort to communicate efficiently and introduce each individuals point of view.

Sprint 1 was the first phase of our project, and it was a good beginning with a lot of work done during it.