

# Report for Milestone1 and 2

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In this semester, the project is to improve the earth system in order to make it even more useful. We have almost 40 tickets and most of them are big challenges for us, who didn't know anything about ruby and rails. After 3 months' hard working, I have the general idea on this complicated system. But it's not enough to finish my task in this project. I still need to learn more technology about ruby on rails, by improving myself.

## What did I do?

The task in milestone 1 is hard to be cut into small parts. Therefore, I finished it with the support from the other subgroup member. After that, I try to read all the codes in earth project. It took me a lot of time to understand what it means and what it can do. Now this task is on the way.

In milestone 2, every member has own task and do the best to deal with the problem happened in development. I tried to use the other way to complete this milestone. But it didn't satisfy the aim we want and needs to be improved by plug-in system. We talked about this task and try to use the plug-in system. It is a little complex. I am still working on it with the other group members. After this task finished, I would write an article on how the plug-in system works.

## The Time Analysis

It took me most of time in a week to read the code. In ruby on rails, some of the functions are from rails and the others are from ruby. And I found that it is a strange programming language. It makes the code less than the one programmed by java or the other general programming language. On the other hand, it is much harder to understand the structure.

There is a table about the time I spent in the last three weeks:

	the week of year			
		19	20	21
the phase	reading	3	4	6
	coding	5	3	1
	fixing bug	5	4	2
	testing	0.5	3	0.5

The lines of code each week is almost the same. It demonstrated that: if I spent more time on reading, the needed time on coding and fixing bug would be less.  
I still try to get the most efficiently method to finish tasks.

### **The Plan**

In the next milestone, I would finish the task about plug-in for searching by metadata and write something about it to give a contribution for the future development on plug-in. And certainly, the code reading would be going on. I need to read more documents on ruby and rails.