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| Student Name: | Yoon Kim |
| Student Number: | N9818901 |
| Group Number: | Group 14 |
| Tutor: | Jimmy |

Skill to be acquired or improved

Skill to be acquired - The ability to create and manage databases using either Python Django or Ruby on Rails Language. My experience with Python and Ruby languages is very limited and lacks comprehensive knowledge.

Skills to be improved – Web development skills and languages including HTML, CSS, JS and/or PHP, SQL.

- Improved knowledges of various web APIs and Bootstrap is also desirable

My skills and comprehensive knowledge and experience in web developing would be great assets for not only my team but also for the development of the project. Therefore, shaping these skills accordingly seems very necessary at this stage.

Relevance to the project, and to your role within the project

My job as a developer is to create a web service that would benefit different stakeholders including students, industry partners and the course coordinators. By further improving web development skills I currently possess, as well as acquiring new database development/management skills in different languages will allow me to effectively design and develop a well optimised web service with greatly improved navigability and usability than the system our client currently has.

Our team has decided that Python Django language will be used exclusively to develop and manage databases, however, Ruby on Rails or other languages might be used instead if deemed necessary (i.e. more efficient or easier to use).

As the goal of our project is to design a comprehensive, optimised web service, all my web development skills will have to be put together.

Plan to acquire this skill

There are many comprehensive, thorough tutorial courses and guides on the skills I need to acquire and improve on Codecademy, Coursera and official websites for Django and Ruby. I will be using these as well as other online sources to acquire these skills.

- I will be using SQL to start designing the layouts of database at this stage as SQL is the only language I can use at the moment to create databases with a relative ease (2-3 hours a week)s
- Learn Ruby and Ruby on Rails on Codecademy (17 hour course in total and about 6 weeks left in this unit; maximum of 2 hours per week)
- Learn Python on Codecademy (10 hours course, about 1 to 2 hours a week)
- Bootstrap has a very comprehensive guide. At least 1 hour per week reading of the online material
- 3-4 hours per week self-study on Django and Ruby on rails

In total, 10-14 hours of work and study per week.

Plan to demonstrate that you have acquired this skill

A working prototype of the web service as well as creating dummy databases with given languages in an adequate manner will be enough to demonstrate these skills. I will be actively talking to the tutor during the fortnightly meeting to demonstrate these skills by providing evidences.