CSE 360 Open-Source Journey

Introduction

Software engineering is the science of developing the softwares. This is one f the classic cources in the computer science field that, it is being instructed in amost all universities. The software engineering is closely related to the software making industry which always change its practices to drive itself to the effiiency in making softwares. But the software engineering cources fails to embrace thses changes in the same pace as the industry does. For instance, when the world is moving more into agile, scrum and open development and all new bleeding edge techniques in software making, most of the software engineering cources in undergradute degrees are more concentrated on the waterfall and other practices, which usually stays in the text. We observed that most of these models doesn’t give much experience on software making process to the students. This was the main reason why we wanted to update the course structure and incorporate more practical aspect to the course.

From the previous works[1], we have learned that most of the leading software makers in the industry encourages the use of existing softwares for rapidly scaling the architecture. The paper(Wei-Tek Tsai et al, 2014[1]) shows that the industry embraces the use of well nurtured open-source softwares. This lead us to reconstructing the entire course with prime focus on open-source software development. We created a series of lectures and assignments that included both theorectical aspects and industry oriented practical tasks on software engineering.

We implemented this reconstructed course plan at software engineering cource of fall 2014 at Arizona State University, Tempe, USA. The chapters that follows tells the journey that we had during the software engineering course of Fall 2014.

OSS in Software engineering

REFERENCES

[1] Peng, R., Sun, D., & Tsai, W. (2014). *Understanding Requirements Driven Architecture Evolution in Social Networking SaaS: An Industrial Case Study* (p. 234). IEEE 8th International Symposium on Service Oriented System Engineering.