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**Comparing the different mindsets between application developers and framework developers**

When I first graduated from a university, Royal University of Phnom Penh then I started my ﬁrst career working as a J2EE developer in a France company which located in Cambodia. My task was to develop new features requested by the customers, so what I did is to learn to understand the existing applications structure and tried to make it works without thinking too much about reusable codes because I did not have enough experience at that time. Moreover, I also always using the existing framework to develop new application requested by the client. In addition, during the study in the bachelor’s degree, the school did not provide me much design patters just only few simple design patterns. This is the reason why most of the time I use the existing code in the project, but I didn’t notice that I was using design pattern. From time to time, after seven years of being a programmer and project manager, it is very noticeable that some parts of the projects I have developed are repeatable and reusable through many applications.

Just now after one month being in the course called Advance Software Development including almost ten days being as a framework developer by using the knowledge I gain from what I have learnt within this course I realize that I have gain a lot more knowledge of being a developer. One major difference is that we use an existing framework to build a ﬁnal product while creating a framework is to generalize the algorithms so that it can be used in many products without changing the source code, like one principle said “open/close” meaning that open for extension closed for modiﬁcation. The difference is before when I started developing an application, I usually ask myself that “which framework should I use? how can I use this framework to develop this application?”, “What are the beneﬁts that this framework provide?”, “is this framework has all the components needed for my application?”. If most of the requirements are met, I just learn how to use the framework and extends it to create the product. Unlike developing a framework, the goal is to make an abstract level product. So, what I keep in mind is “How can I make this framework work for all applications?”, “What problems that can be solved by this framework?”, “How can the other application extend my framework?”, “It is easy to use”. Usually the idea came from the problems I have solved before, then refactored it, make it more general, abstract and ﬂexible. Sometimes, it came from the experience of using other frameworks. Another difference is that application developer is business logic oriented, more focus on completing the tasks required by the customer while framework developer view at the higher level of the business logic make it more standard which mean that providing a skeleton for that business logic then simply implement that skeleton to meet the speciﬁc requirement. For example, before if the client required the application to send an email to welcome after the registration, being a developer, I will find any framework that can trigger send the email such as Java Scheduler or Mule ESB and that’s it. But being a framework developer, I must think of the way to build the feature in the higher level that can be extended in the future by using some patterns like Strategy Design Patters in case in the future if the client wants to send another email with another purpose I just extend the existing framework created. In short, I can say that, within this course, I myself realize that I have changed a lot of the ways how to start developing a software.

In conclusion, in my opinion I think that being a framework developer can be considered as a higher level of an application developer because the idea of framework comes from an application developer who experiences through many repeated work for years to come up with a standard skeleton algorithm to support many business problem’s solutions.