Proposed Topic

Test cases are greatly important when developing high quality software. It helps to validate that the right product with the intended functionality is being delivered. It can be pointed out that good tools generates good results. The Unified Modeling Language through the use of Activity Diagrams is a tool that helps Software Engineers to generate good Test Cases.

Being said this, I am interested in expanding my knowledge about **the usage of Activity Diagrams to generate Test Cases** because I would like to improve my knowledge about Test Cases and deepen my understanding of Activity Diagrams while establishing a connection between these two.

My three main sources of knowledge would be these three papers:

- Test Cases Formation Using UML Activity Diagram by Patel, P.E. and Patil, N.N (Department of Computing, R.C. Patel Institute of Technology, Dhule, India)

- Test Cases Generation from UML Sub activity and Activity Diagram by Xin Fan, Jian Shu, Linlan Liu, and Qi Jun Liang (School of Computing, Nanchang HangKong University, Nanchang, China)

- Generating Test Cases from UML Activity Diagram based on Gray-box method by Wang Linzhang, Yuan Jiesong, Yu Xiaofeng, Hu Jun, Li Xuanding, Zheng Guoliang (Department of Computer Science and Technology, Nanjing University, China)