**Mulesoft Coding Best Practices**

In this tutorial we have listed down some best practices that every mule developer should follow

* Avoid hardcoding values,hosts,urls and port number inside the mule code, try to use the properties files and refer the values from properties file inside mule code
* Avoid hardcoding the passwords in code, all the passwords should be encrypted use the secure property placeholder to manage the passwords
* Avoid logging the complete payload, it impacts the performance and security by logging the sensitive information
* User loggers with proper log level inside mule flows
* While logging the payload. Log only required information and mask the sensitive data
* Naming convention should be proper for system,process and experience API’s for mule projects and for flows and subflows, variables so that everyone can differentiate between all components
* Try to use common logging and error handling framework and use it across all mule application to maintain the consistency
* All possible runtime exception should handle correctly in mule code
* Response code should be mapped correctly as per HTTP standard
* MUnit should be written for all the mule flows and test coverage should be greater than 80 %
* Try to do the validation on fields in well advance at the starting of the mule flows
* It is recommended to use the latest mulesoft connector version in pom.xml
* Avoid duplicacy inside mule code, try to wrap the reusable code in subflow/flow and use across mule application
* There should not be any unused variable/code inside mule project
* All the dependent 3rd party library should be added as dependency under pom.xml
* Should not load large file or payload in to memory
* Avoid creating copy of the payload and store in variable
* Reprocessing connection strategy should be implemented in case of technical fault