Generic Guidelines for Project Development

1. **Db Script:**  Before we don’t have any tracking what db queries are executed on tables. So, from now, to keep track of all the db queries. For that purpose, we are going to use **spring-liquibase.**  Scripts will be executed along as process of project startup.

Ref url : <https://www.liquibase.org/documentation/spring.html>

1. **Sequence Diagram:** Sequence diagram for each api is required before starting development, so that same can be shared across teams for better understanding of projects.

Ref url: <https://sequencediagram.org/>

1. **Junits :** For service layers, line and branch coverage needs to be achieved atleast 80%.
2. **Documentation:**  Below details needs to be completed as a process of api deliverables:

Api Request Response, Sequence Diagram, Technical Documentation + ), Architecture Flow, Tables Involved, Sql Queries (if any), Jira Link, Linked Issues (if any)

1. **Flow of Code Structure:**  Suppose we want to develop controller for banking service.

Flow of code should be:

Banking Controller -> Banking Service -> Banking Repository.

*Any communication with Banking Service to Banking Repository needs to done using BankingDto. Suppose BankingService needs information about user, then instead of binding BankingRepository directly in BankingService, we need to autowire UserService in BankingService and call userService.someMethod to access user repository via userDto.*

*Sample code*

*//mapper needs to be used to convert BankDto to user UserDto.*

*UserDto userDto = bankingMapper.convertBankDtoToUserDto (bankDto);*

*userService.fetchUserDetails(userDto);*

1. Lombok needs to be implemented in the project so that getter setter and toString methods generated by default.