**Summary: ------**

1. Organized the project by separating the repositories , services and DTO’s (Data transfer Objects)
2. Created the NUnit Test project with MOQ and added Test data and Test cases for LotServiceTests which are in failed state.
3. Refactored the repositories and introduced the RepositoryBase class and added interfaces for existing repositories.
4. Implemented interfaces and RepositoryBase class for repository classes. Making sure the class is opened for future extensions.
5. Moved GetFailOverLotEntries from LotService to LotRepository. (Single responsibility Principle).
6. Created Interfaces for LotService and implemented.
7. Refactored the LotService by adding Repositories via dependency injection.
8. maxFailedRequests value is hard coded in LotService moved to GetLot signature.
9. The isFailoverModeEnabled variable which is always true moved to GetLot signature so that we can configure the application to enable/disable the Failover mode.
10. Null check missing in LotService for lot object added.
11. Updated the Test Cases with MOQ setup for repositories for LotServiceTests.
12. Noticed the failedRequests is not meeting the condition even though there are more than 50 failed requests in Test data. The condition is wrong updated the condition in LotService.
13. Ran the test cases for failed requests over 50 and less than 50.
14. Test cases are passed.