1. I make the application testable by writing down the unit test cases that will check the functionality of the application against the expected result.

I can do the integration testing by mocking the different layers of the application like mocking mvc to test the expected response of the API

I can also automat the UI testing by using automation tools like selenium that will help us to simulate the client interaction with the application and test if the functionality meet the expected result.

The real problem while doing the testing of an application is the availability of test data, we can involve domain expert to provide the unit test cases and the test data that will help us to increase the coverage of the testing for the underlying application.

2. I will always try to incorporate the latest technology in my project and will develop the poc using these technologies to prove my skill set. Whenever I would code for the application, I would try to use the latest coding style to get familiar and improve the coding format. I will always keep an eye on all the upcoming versions and the features that are getting added in the technology that I am currently using in my project. I would keep enhancing my skills as a fullstack developer to come up as a versatile technical asset for the organization.

3.When I was working on one of my microservice base project, travelgig, I was assigned to work on booking microservice. At that time when I was implementing hotel booking functionality, I was running slow due the complexity associated with the functionality as while doing the booking we need to take care of the concurrency issue and I took more than the expected time to finish this task. Just to meet the deadline so that the given functionality would be completed before the end of the current sprint I spent more than my working hours and also worked on the weekend.