**LAB ASSIGNMENT – 01**

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**The big picture of development: -**

Developing a hosted web application has several moving parts. You need to invest in good processes and tools up front to speed up your team's processes and help them create better products.

Environmental Consistency: Eliminate configuration differences, improve ability to test new ideas, invest in consistent development, staging, and production environments, and document all software and current versions that applications depend on. increase.

Source Control: Most projects should use source control. This is to protect your capital if you lose all your source code or mess up an important module.

Release automation: When you start writing code, you should set up a release process that releases updates to your application on a regular basis. The sooner you can incorporate the approval process into your development, the better.

* And there are some more tools like Automated Testing, Bug and Issue Tracking, Continuous Integration, Creating a high – Quality Culture etc.

What makes a good software engineer?

Groups come in many different specialties: networking, quality assurance, front-end, back-end, etc. But as the software effort grows, it tends to shift responsibility.

Without a name, developers often leave obvious bugs in their code knowing her QA group will find (and fix) them. Frontend engineers also move their work to the backend because it makes the code faster and easier to work with, even if the logic doesn't belong on the backend. This specialization creates division and pushes problems down rather than focusing on working together to create the best possible product.

should be a software developer

Generalist or Specialist?

In my opinion, you can grow faster in the industry because you are not just a generalist or specialist, but also a generalist and specialist in a particular field. There is no point in being just a specialist in one field. No one will stand by you if you are just a generalist. Because everyone needs a specialist for their job.

The Joel Test: 12 Steps to Better Code: -

As a developer, if I follow these 12 steps, I can proudly say that I am a great developer.

• Use source control.

• Build in one step.

• There is a bug database.

• Fix bugs before writing new code.

• Have an up-to-date schedule.

•specification.

• Create a daily build.

• Do programmers have quiet working conditions?

• Use the best tools money can buy.

• Have a tester ready.

• Do new candidates write code during interviews?

• Conduct usability testing in the hallway. Ask yourself these 12 steps to assess how good you are.