**LAB ASSIGNMENT – 01 (SOFTWARE ENGINEERING)**

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**The big picture of development: -**

Multiple moving elements are involved in developing a hosted web application, so you should make an upfront investment in efficient procedures and productivity-enhancing tools. Here are some equipment:

Consistent development, staging, and production environments will help you test new ideas more effectively and will remove configuration discrepancies. You should also record every piece of software and the most recent versions that your application depends on.

Source Control: The majority of projects should employ source control because it safeguards your money in the event that you lose all of your source code or mishandle a crucial module.

Release Automation: You must build up a deliver process as soon as you begin writing code in order to consistently release updates to your application. the earliest possible

# What makes a great Software Engineer?

Networking, quality assurance, front end, back end, and other skills can be found in groups, however in larger software projects, this leads to a propensity to blame others.

Without naming any names, developers frequently leave glaring problems in their code because they know the QA team will catch (and repair) them, or they rely on security engineers to close gaps they should have closed themselves. Even if the functionality doesn't belong there, front-end engineers will push work to the backend since it makes their code faster and their lives easier.

Instead of emphasising collaborating to develop the best result possible, this specialisation leads to divisions and delays the problem.

# Should Software Developers Be Generalists or Specialists?

# In my opinion, in order to advance in an industry more quickly, one needs not only be a generalist or specialist but both a generalist and specialist in a given field. If you are only a specialist in one field, you are worthless, and if you are only a generalist, no one will favour you because everyone needs a specialised to complete their work.

# The Joel Test: 12 Steps to Better Code: -

# As a Developer If you follow these 12 Steps then proudly you can say that I am a good Developer.

* **use source control.**
* **make a build in one step.**

# have a bug database.

# fix bugs before writing new code.

# have an up-to-date schedule.

# have a spec.

# make daily builds.

* **Do programmers have quiet working conditions?**

# use the best tools money can buy.

# have testers.

* **Do new candidates write code during their interview?**

# do hallway usability testing.

# Question Yourself these 12 Steps and rate yourself how good you are.