Version Control System

Also known as revision control or source control

Use to manage changes of documents, computer programs, large websites and other collections of information.

Run as stand-alone application

But also be embedded in integrated development environments (IDEs)

Type of Version Control System

Local version control system

Centralized version control system

Distributed version control system

Why version control system is needed in System Development Plan?

Version control system provides a constant communication vehicle for the team whether they are in the same room, or around the globe

It also provides a logical method to preserves the individual contributions of team members without overwriting another developer’s work.

It is also failsafe for finding and supporting issues that are in conflict.

Git

It is a version control system

Track changes in computer files and coordinating work on those files among multiple people.

Used for managing source code in software development.

Free public and private git repositories are available from:

Bitbucket

Github

Functions of Git

* git clone <url>
* git pull
* git add .
* git commit –m “”
* git push

Testing

After the software is complete, the software is needed to start testing the functionality of entire system.

It verify entrie application works according to the customer requirement

Also find bugs and defects.

Why Testing is important in sdlc?

Prove the requirements are implemented correctly or not .

Identify proper integration or interaction of all components.

Improve quality of product and also quality of project.

JUnit

Framework for unit testing in java programming language

Important in development of test-driven development

It is linked as a JAR at compile time.

The framework resolves under package junit.framework for Junit 3.8 and org.junit for Junit 4

Has annotations such as :

@Test

@BeforeClass

@AfterClass

@Before

@After and so on.