Types of Projects:

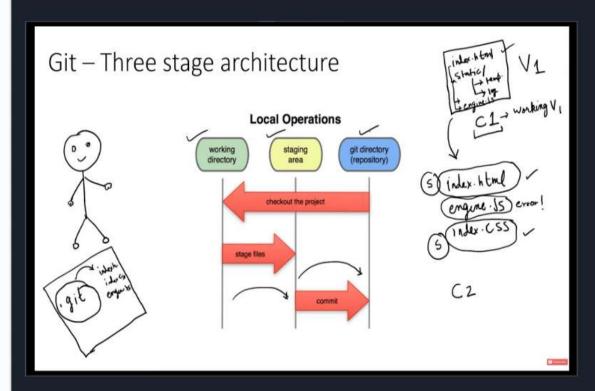
Product

Service

- item for customer
- · Success is checked by product sold b profite made.
- · Planning includes market research b product design.
- Management includes managing scope a budget.
- · Challenges includes product development delays & market competetion.
- · Solid marketing strategy is must.

- · Provides intangible services to scustomers.
- · Success is measured by customer satisfaction & loyality.
- · Planning includes consideration of customer needs & e service delivery
- es Management includes sexuice quality of customer satisfaction.
 - · Challenges includes Service delivery delays & customer complaints
 - · Effective communication 6 pro-active problem Solving is must.

Git Three Stage Architecture



Working Directory: The working directory is where you make modifications to your project files. It's simply the folder on your local machine where you edit, add, or delete files. When you create or modify a file, it exists in the working directory.

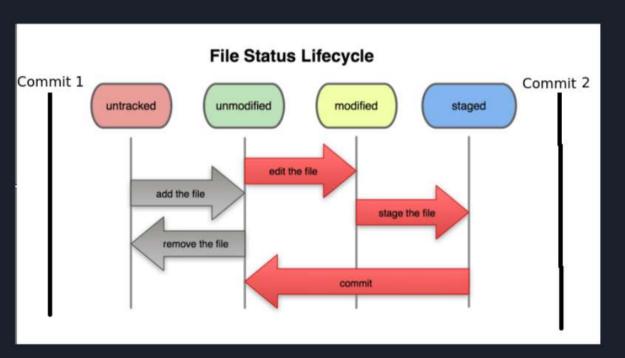
Staging Area (Index):

The staging area, also known as the index, acts as a buffer between the working directory and the repository. It is a conceptual space that holds the changes you want to include in the next commit. When you modify files in the working directory, you need to explicitly add them to the staging area before they become part of the next commit. This allows you to control which changes will be included in the commit.

Repository (Commit History):

The repository contains the complete history of your project, including all the commits you've made. Each commit represents a snapshot of the project's state at a specific point in time. It contains the changes from the staging area along with a commit message describing the changes made. Commits are permanent and immutable, ensuring that the project's history is well-documented and can be revisited at any time.

File Status Life-Cycle



Untracked:

A file is in the "Untracked" state when it is newly created in the working directory or if Git has not been instructed to track changes to that file. These files are not yet part of Git's version control system, and Git is unaware of any changes made to them.

Unmodified:

All the changes done after it has been in the tracked are checked.

If no changes done then file remains in unmodified stage.

Modified:

After you have created or modified a tracked file in the working directory, Git recognizes it as "Modified." This means that the file's content has changed since the last commit.

Staged (Changes to be committed):

To include the changes made to a modified file in the next commit, you need to add them to the staging area. The staging area is a space where you assemble changes that you want to be included in the next commit.

Software Design Approaches

Function Oriented Design

- System is designed from a functional viewpoint.
- Top-down decomposition
- Divide & Conquer approach
- DFD is used

Object Oriented Design

- System is viewed as a collection of objects (i.e., entities)
- Bottom-up approach
- UML is used



Classical	Itemative Waterfall	Ponototype Model	In commental Model	Evolutionary	RAD Model	Spinal	Agile Model
Basic, Rigid, Ynflexible, Not for Real Boject		Not clear, Costly, No Eastly lock on Requirements > High User Involvement > Reusability	Delivery,	Lange Projects	Cost Constraint, User at all levels Reusability	Risk, Not for Brownells, Not for Brownells, No Early lack On Requirements, Ness Experime Can worlz	

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