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INTRODUCTION TO SDLC:

* SDLC is the process of enhancing the quality of the project.
* Cost-effective and time-efficient process that development teams use to design and build high-quality software.
* The software development lifecycle (SDLC) methodology provides a systematic management framework with specific deliverables at every stage of the software development process.

There are different types of phases

Such as:

* Planning
* Designing
* Development
* Testing
* Deployment
* Maintenance

PLANNING:

* It is the initial stage where project gets started.
* We plan the objectives and goal in a defined way.
* By this phase only we can clearly go through next processes.

DESIGNING:

* Here we design the architecture of the project.
* It includes the high level design and low level design.

DEVELOPMENT:

* Here includes the core part of the project such as code review ,version control.
* In the implementation phase, the development team codes the product. They analyze the requirements to identify smaller coding tasks they can do daily to achieve the result.

TESTING:

* The development team combines automation and manual testing to check the software for bugs.
* Quality analysis includes testing the software for errors and checking if it meets customer requirements.
* Because many teams immediately test the code they write, the testing phase often runs parallel to the development phase.

DEPLOYMENT:

* The deployment phase includes several tasks to move the latest build copy to the production environment, such as packaging, environment configuration, and installation.

MAINTENANCE:

* In the maintenance phase, among other tasks, the team fixes bugs, resolves customer issues, and manages software changes.
* In addition, the team monitors overall system performance, security, and user experience to identify new ways to improve the existing software.