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System Development. libe cycle (SDLC) is a conceptual model which includes policies and procedures bon developing on altering systems throughout their libe cycles.

An ebbective SDLC should result in a high quality, system that meets eustomen expectations, reach es completion within time and cost evaluations, and wonks ebbectively and ebbectively in the current and planned information Technology intrastructure.

The system development libe cycle helps alleviate the complexity of developing a system information system brown so ratch, within a bramework of structured phases that help shape the proyect and manage it easily. It helps transform an idea proyect into a bunctional and bully operational system. The SDLC, apart from contening the technical aspects of an information system's development, also encompasses activities such as process and procedure development, change in management, the user experience, policy development, impact, and combon mity to security regulations.

Another important reason bor leveraging a system development libe cycle is to oplan ahead of time and namalyze the structured phases and goals of a specific sobtaxine system proyect. Goal -onitrated properses. don't

bollow a one-Size-bits-all methodology. Instead, they adapt and ane. Thesponsive to user meds, which is why, it is. Important to have a well-defined planto determine costs and stabbing decisions, provide goals and deliverables, measure perbormace, and apply walidation points at each phase of the libe cycle to improve quality.

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System Development Libe Cycle (SDLC):

obtain approval bon project, initiate. access beasibility, plan, stepredule Planing Understand meeds Keep. (Maintenance and processing needs Analysis system healthy and improve implementation Debine solution system based on reguenement Contruct, test, athalysis decision. train users, install new systems.

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- Deplanming: This circle enucial phase sets the tome overall success of the priorpect, which is why it is during this phase that thorough research is performed to determine resource, budget, personnel, technical aspects, and more.
- (a) Identity problems
- (b) Identiby opportunity.
- (c) Identiby objective.

西Feasibility Study: 5 mayor dimensions:

a) Technical beasibility:

- (i) Cone-enned with technology to be used in the system
- (ii) Access whether technology to be used in the system is available on not
- (iii) Lack of technical beastbelity.
- (b) Operational beasibility:
 - (i) Measure of "How well the proposed salution will work in the origanization"
 - (ii) How internal and external customers will preact to it

(c) Schredule beasibility:

- (i) Wheather the system can be completed on time
- (ii) Problem ob going over schedule.

(d) Legal beasitility:

- ci) Concentred with Legalissues
 - (ii) Conflict with between proposed system and legal regunement.

(e) Economical beasibility:

- (1) System's costs and benebits.
- (ii) Tangible and Intangible benebits.
- (iii) Cost-ebbectivences. analysis.
- (iv) Cost-benebit analysis report.
- (V) Calculate ROI, BEP, NPV.
- 2) Analysis: The purpose of this phase is to condenstand the business and processing needs of the imbormation system. project, Hene, the development team considers the bunctional regunements of the system to assess how the solution will meet the end users expectations.
- (a) Data blow d'agreams
- (b) Document procedure logie bon data blow diagram processes.
- (e) Data dictonary
- (d) Prepare and present a system proposal
- (e) Recommend optimal, solution
- Design: The system design is produced in detail ito ensure the system will include the necessary beat und to meet all bunctional aspects, at the project.
- Ca) Design usen interbace (c) produce program specification
 - (b) Design system Control (d) produce decision trees on tables.

- project is released to be used and lon install by end users.
- (a) Coding and testing
- (b) Design Security measures
- (e) Plan conversion
- (d) Install system
- (e) Preview and evaluate system
- (5) Maintenance: In this binal phase, end usens can binetune the system as necessary to increase perboumance, add new beatures and capabilities, or meet new regurements brought to the table by the client.
- (a) Test and debug computer programs
- (b) Test computer system
- (c) Develop system.