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Analysis Design & Proj Management (41011)
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Unit 09

1. What is a Project?

A project is a defined undertaking with a defined beginning and end, that produces a well-defined result or product.

2. What is the range of sizes of an information system development project?

Information system development projects can range from small to large. Small projects can still take countless hours to develop, test, furnish, and deploy.

3. What is the System Development Life Cycle (SDLC)?

SDLC is the term used to describe the process and methodology for developing, deploying, and maintaining a software system. It is a life cycle because it can cover the entire life of a system, from conception to maintenance and ultimately death.

A SDLC will include a description of the methods, the tools, techniques, models, and project management processes that are used in the development of a new system.

4. What characteristics of a project call for a predictive approach to the SDLC?

Projects which are well understood and have few known risks. The technology, user requirements, development methodology, and system are all well known.

5. What characteristics of a project call for an adaptive approach to the SDLC?

- Not well understood.
- Many risks.
- New or unfamiliar technology.
- Team inexperienced with the system or methodology.
- Unclear requirements.

6. What is a system development methodology?

It is a set of guidelines and procedures. "A system development methodology provides guidelines to follow for completing every activity in the systems development life cycle, including specific models, tools, and techniques."

7. What are the basic characteristics of the traditional approach?

Structured development with an approach to break a problem down into smaller components and write programs a set of modules in a hierarchical structure.

8. What are the basic characteristics of the object-oriented approach?

"All processes and data can be thought of as "objects." A program consists of interacting objects that work together by sending messages to each other and executing internal functions (methods)."

9. What is Agile development?

"Agile Development is a philosophy and set of guidelines for developing software in an unknown, rapidly changing environment."