Introduction to analysis and design tools

Analysis

Software analysis and design includes all activities, which help the transformation of requirement specification into implementation. Requirement specifications specify all functional and non-functional expectations from the software.

Case Tools

In information technology, a computer-aided system engineering (CASE) tool is software that assists with software development. The main purpose of using a CASE tool is to produce error-free, easy to maintain program code.

General types of case tools

Diagramming tools enable graphical representation.

Computer displays and report generators help prototype how systems "look and feel".

Analysis tools automatically check for consistency in diagrams, forms, and reports.

A central repository provides integrated storage of diagrams, reports, and project management specifications.

Rapid Application Development (RAD)

Decreases design and implementation time

Involves: extensive user involvement, prototyping, integrated CASE tools, code generators

More focus on user interface and system function, less on detailed business analysis and system performance