

SYSTEM ANALYSIS & DESIGN

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graph LR;
    SADS[SYSTEM ANALYSIS & DESIGN] --- PI[Preliminary Investigation];
    SADS --- SA[System Analysis];
    SADS --- SD[System Design];
    SADS --- SysDev[System Development];
    SADS --- SI[System Implementation];
    SADS --- SM[System Maintenance];
    SADS --- P[Prototyping];
    SADS --- RAD[Rapid applications development (RAD)];
    PI --- PI_desc[Define problem, suggest alternatives, prepare short report];
    SA --- SA_desc[Gather data, analyze data, document];
    SD --- SD_desc[Design alternatives, select best alternative, write report];
    SysDev --- SysDev_desc[Develop software, acquire hardware, test system];
    SI --- SI_desc1[Converting of systems components and old data is moved to new system];
    SI --- SI_desc2[People are trained to use it];
    SM --- SM_desc[Perform systems audit, evaluate periodically];
    P --- P_desc[Build a model or prototype that can be modified before the actual system is installed];
    RAD --- RAD_desc[Involves the use of powerful development software, small specialized teams, and highly trained personnel];
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Preliminary Investigation

Define problem, suggest alternatives, prepare short report

System Analysis

Gather data, analyze data, document

System Design

Design alternatives, select best alternative, write report

System Development

Develop software, acquire hardware, test system

System Implementation

Converting of systems components and old data is moved to new system

People are trained to use it

System Maintenance

Perform systems audit, evaluate periodically

Prototyping

Build a model or prototype that can be modified before the actual system is installed

Rapid applications development (RAD)

Involves the use of powerful development software, small specialized teams, and highly trained personnel