



SOFTECH SOLUTIONS INC

SDLC



Software Development Life Cycle(SDLC)

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SDLC (Software Development Life Cycle)



Lets build a house!

To build a house what we need?

- What type of house we are going to build?
- How many floors the house should have?
- How many bedrooms should it have?
- So on.....

Requirement

Similarly To build a software we must need requirement



- What type of Software we are going to develop?
- How many users will access the Application?
- So on.....

BRD & FRD

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Requirement Analysis



Requirement
Analysis



BRD(Business Requirement Documents)

BRD contains all the Business requirements of the users/customers. The requirements given by the end users or customers are collected into a single document called as BRD document.



FRD/FRS (Functional Requirement Documents/Specification)

FRD/FRS has all the functional requirements that the application must have or how the application should behave. FRD/FRS is prepare by BA, Architect and Project Lead.



Business Analyst(BA) is a responsible for collecting and documenting business requirements.

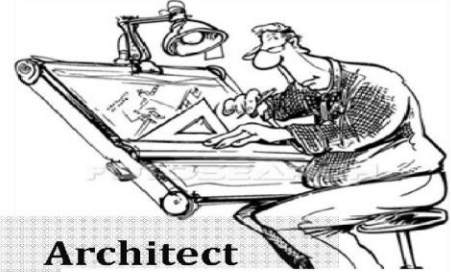
Business Analyst(BA)

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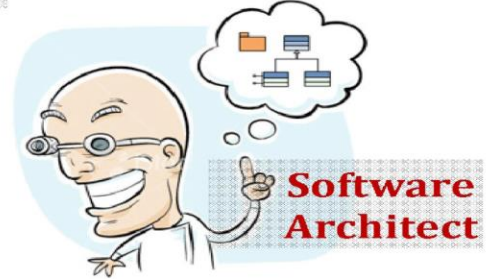
Design



Architect



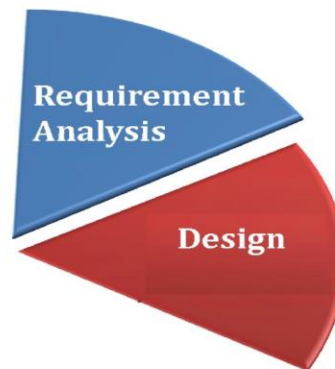
Design



Software Architect

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Build

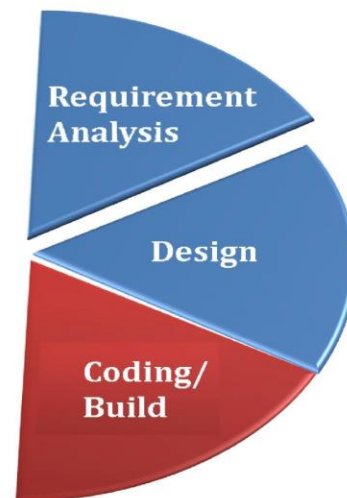


Build



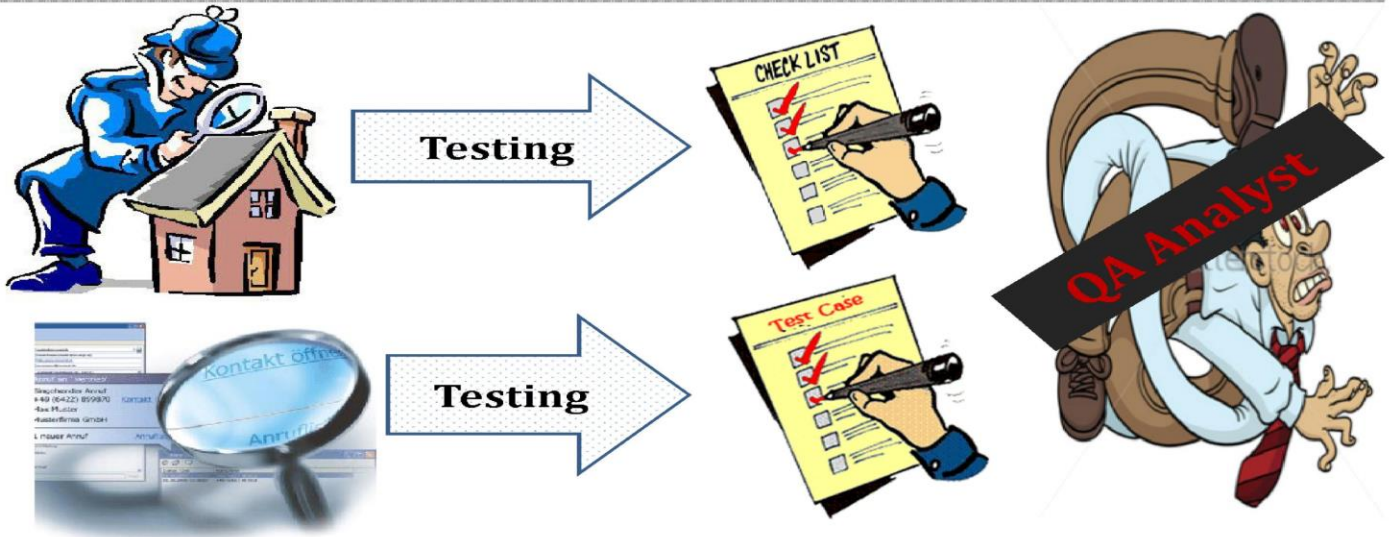
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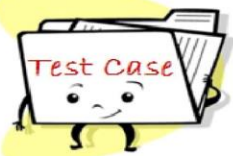
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Test Plan

Test Plan is a document that describes how the testing will be conducted.



Test Cases

Test case is usually a sequence of steps, to test the correct functionalities or features of an application. An expected result is usually given.

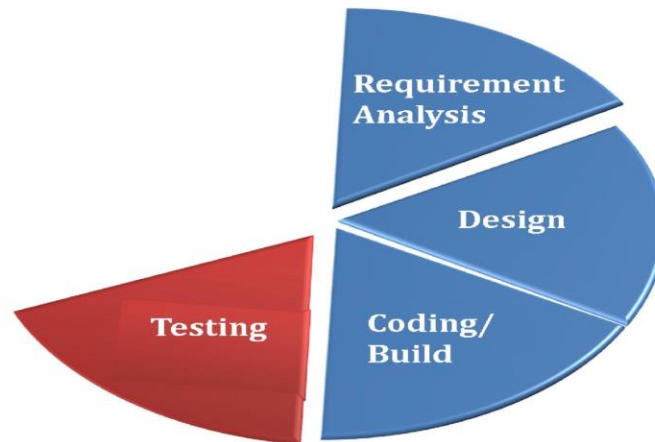


Requirement Traceability Matrix

Requirement Traceability Matrix is the process of documenting that maps between Test Cases and Requirements.

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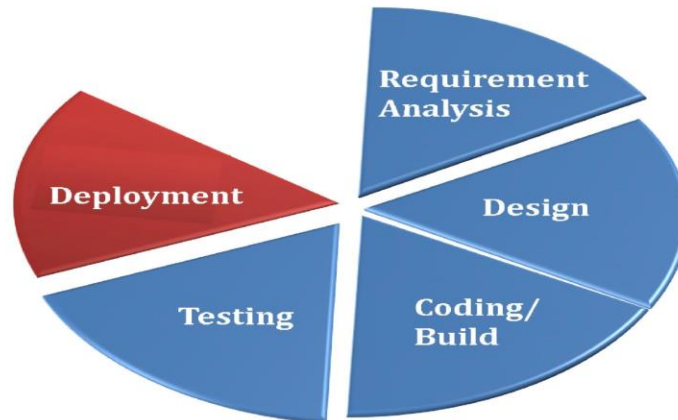
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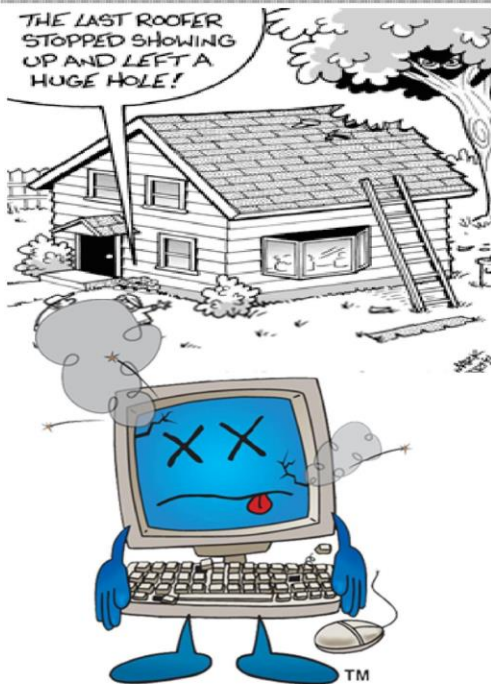
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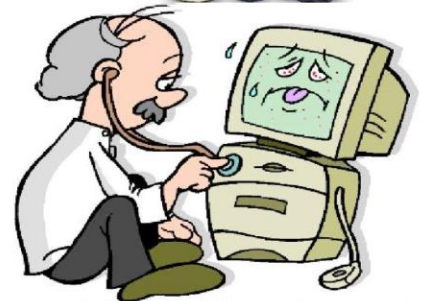
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Maintenance

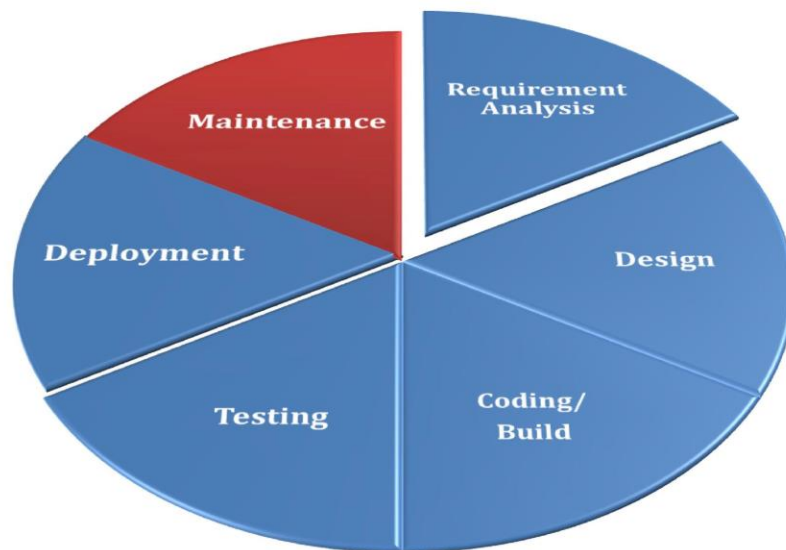
Maintenance



Production Support

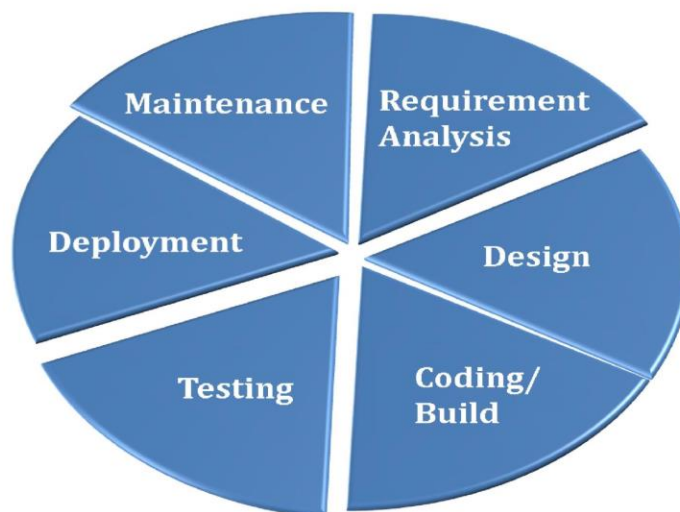
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Who does What ?



CEO/Stake Holder/Director/Vice President

- 🔗 **Initiate Project & provide budget.**

Project Manager/Product Owner

- 🔗 **Manage Project & Gather requirements from Stake Holder**

Business Analyst

- 🔗 **Analyze Requirement and Create Requirement Documentation**

Architect/Developer/Programmer/Coder

- 🔗 **Design and write code for software**

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Who does What ?



Network Engineer

- 🔗 **Design and maintain Network**

Infra-Structure

- 🔗 **Maintain Hardware & Software**

QA Analyst/QA Engineer

- 🔗 **Test software according to requirements**

Help Desk

- 🔗 **Help employees to troubleshoot their PC/Laptops.**

Production Support

- 🔗 **Provide Software Support in Production.**

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Question & Answer(QA)



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Summary of Key Concepts



- SDLC(Software Development Life Cycle) is the process or life cycle of developing a software. Software needs to go through various phases before it is ready for end users.
- SDLC has 6 phases. Requirement Analysis, Design, Coding/Building, Testing, Deployment and Maintenance.
- BRD stands for Business Requirement Document. It contains all the business requirements of the users/customers. The requirements given by the end users or customers are collected into a single document called as BRD document.
- FRD/FRS has all the functional requirements that the application must have or how the application should behave. FRD/FRS is prepared by BA, Architect and Project Lead.
- Business Analyst(BA) is responsible for collecting and documenting business requirements.
- Business Analyst is point of contact for any requirement clarification.
- Software Architect is responsible for designing the Software/Application.
- Programmer/Coder is responsible for building/developing the Application/Software.
- QA Analyst is responsible for Testing the Software.
- Test Plan is a document that describes how the testing will be conducted.
- Test case is usually a sequence of steps, to test the correct functionalities or features of an application. An expected result is usually given.

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Summary of Key Concepts



- Requirement Traceability Matrix is the process of documenting that maps between Test Cases and Requirements.
- Production Support team is responsible for maintaining the Software.
- RTM(Requirement Traceability Matrix) also shows which requirement is covered in which test cases/scenarios.
- Stakeholder initiates project & provides budget.
- PM manages project & gathers requirements from Stakeholder.
- BA analyzes requirement and creates requirement documentation.
- Developer designs and writes code for software.
- Infra designs and maintains network.
- Help Desk helps employees to troubleshoot their PC/Laptops.
- Production Support team provides software support in production.

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