

**REQ** 

# **Software Engineering Disciplines**



PLANNING

EXECUTIONAL

**Environment** 

Design all external application

integration into its environment

Design

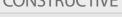
architecture aspects to allow an efficient

Design all internal application

and effective implementation

architecture aspects to allow seamless





# RES

### Resources

**STEERING** 

Provision all human resources, environments and toolings to drive the project





### **Project**

Plan all time, costs and scope aspects to allow an effective and efficient execution of project





## **DBG** Debugging

**ANA** Analysis

Locate the origin of a functional or non-functional problem within the application code or data

**ANALYTICAL** 

Requirements

Systematically and structurally elicit,

Systematically and structurally analyze

and document the functionality into a

binding and complete specification who

organize, document and agree on



### **Implementation**

Craft all application code and data according to the requirements, analysis and design specifications



### Execution

Continuously ensure that at any time all project members know about and can perform their assigned work packages



### **TST**

**Test** 

Test application at all its structural layers against defined functional and non-functional test cases



**Assembly** 

Automate hierarchical building of all code and data artifacts and automate deployment & operations of application



**Controlling** 

Continuously compare planned and actual status of time, costs and scope and adjust project accordingly

**Delivery** 



**MSM** Measurement

Measure static and dynamic aspects of application and project and provide resulting key performance indicators



**Documentation** 

Craft documentation for the target audiences manager, developer, user and administrator



Plan and control the continuous change and delivery process of the application across releases



Review and audit all aspects of the software engineering process of the project and judge current quality



### **Training**

Create and perform presentations and workshops based on the application and its documentation



**CFG** Configuration

Consistently identify and version all revisions of all project artifacts across all storage types and their branches





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secondary / support disciplines primary / focus / "king" disciplines

Inspection

domain Analysis domain Design domain Development domain Documentation

domain Configuration

domain Management