



SOFTWARE ENGINEERING

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WEEK 7

SOFTWARE

REQUIREMENT

ENGINEERING

Presented by:

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Outlines

1) Objectives

2) Learning Outcomes

3) Functional/Non Functional Requirement

4) Requirement Document

5) Requirement Specification

6) Requirement Engineering Process

7) Requirement Analysis

8) Requirement Validation

9) Requirement Management



Objectives

To describe the principal requirements of software engineering

To discuss all definitions and types of software requirement engineering

Learning Outcomes

Identify stakeholders and their influence on the system requirements

Specify basic components that related to software requirement engineering

Practice the different roles in the requirement engineering process

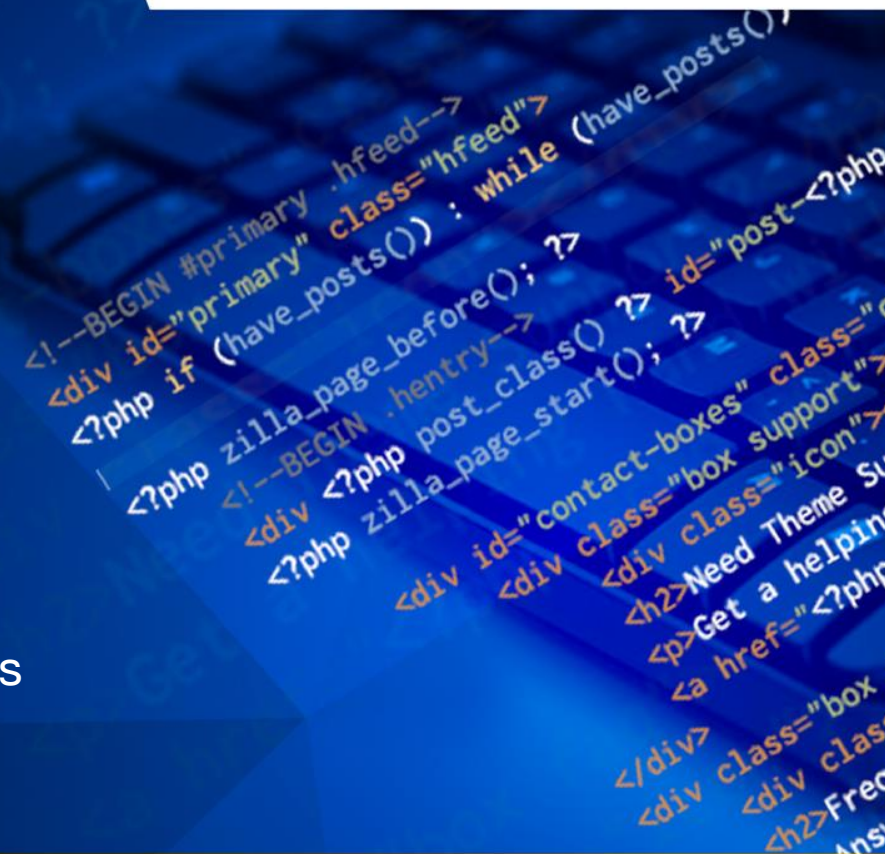
Functional/ Non-Functional

Functional

- Statements of services the system should provide, react and behave in particular situations

Non-Functional

- Constraints on the services or functions offered by the system.



Requirement Document

An official statement of **WHAT** is required of the system developers

Should cover a user requirement definition and system requirements specification



Requirement Specification

Natural Language

Structure Natural Language

Description Language

Graphic Notation

Mathematics Specification

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Requirement Engineering Process

Requirements
elicitation

Requirements
analysis

Requirements
validation

Requirements
management

Requirement Analysis

Requirements
discovery

Requirements
classification
and
organization

Requirements
prioritization
and negotiation

Requirements
specification



Requirement Validation

Demonstrate
the
requirements
that the user
really wants

Validation is
very important
to avoid the
high cost of
requirements
error

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Requirement Management

Process of managing changing requirements during the RE process and system development

Maintain the modification and access the impact of any requirements changes

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