



# Object Oriented Analysis and Design with Java

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## Recap on SDLC and Architecture Techniques

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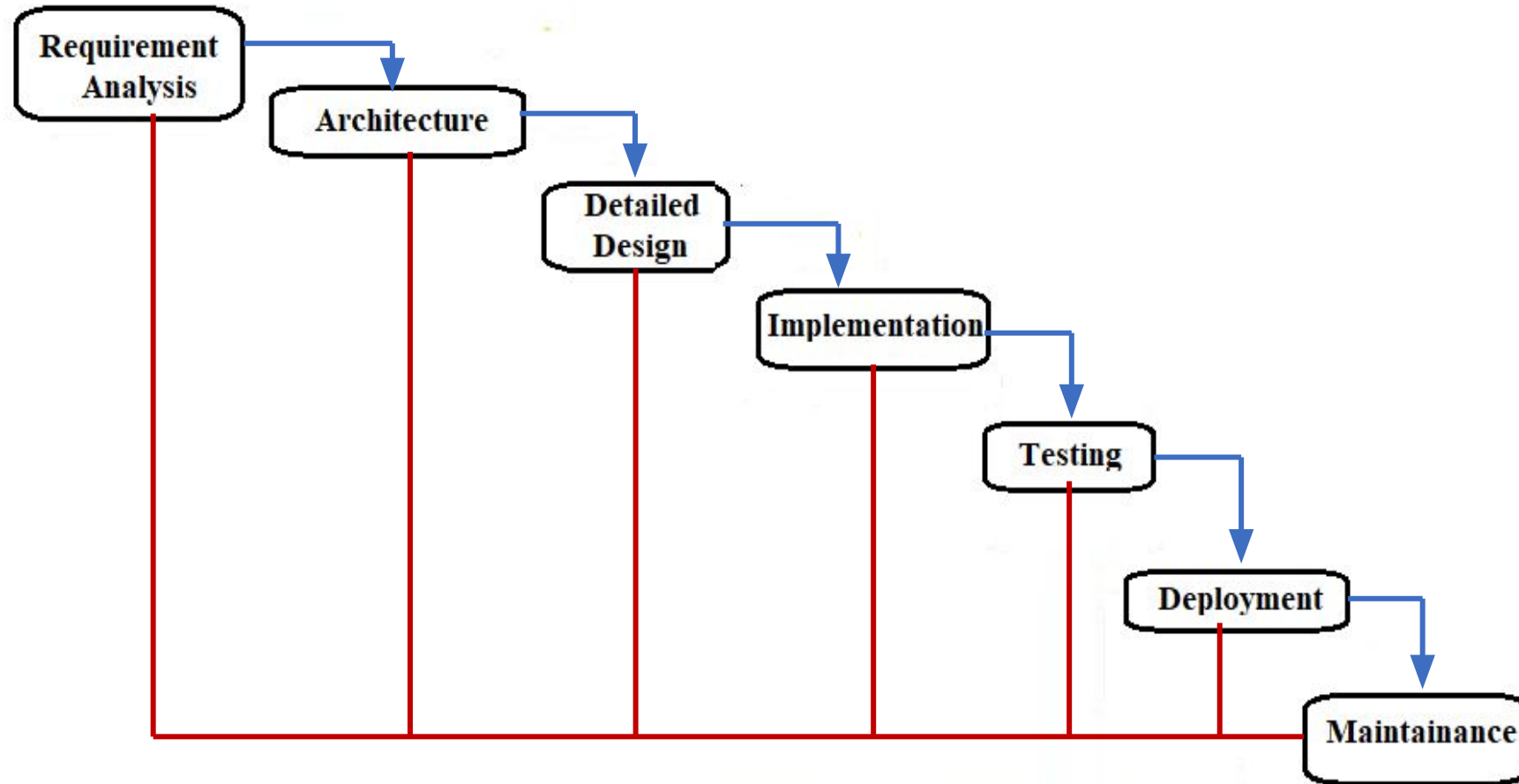
## Agenda

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- Recap of SDLC models
- Recap of Architecture & design characteristics
- OOAD as part of SDLC

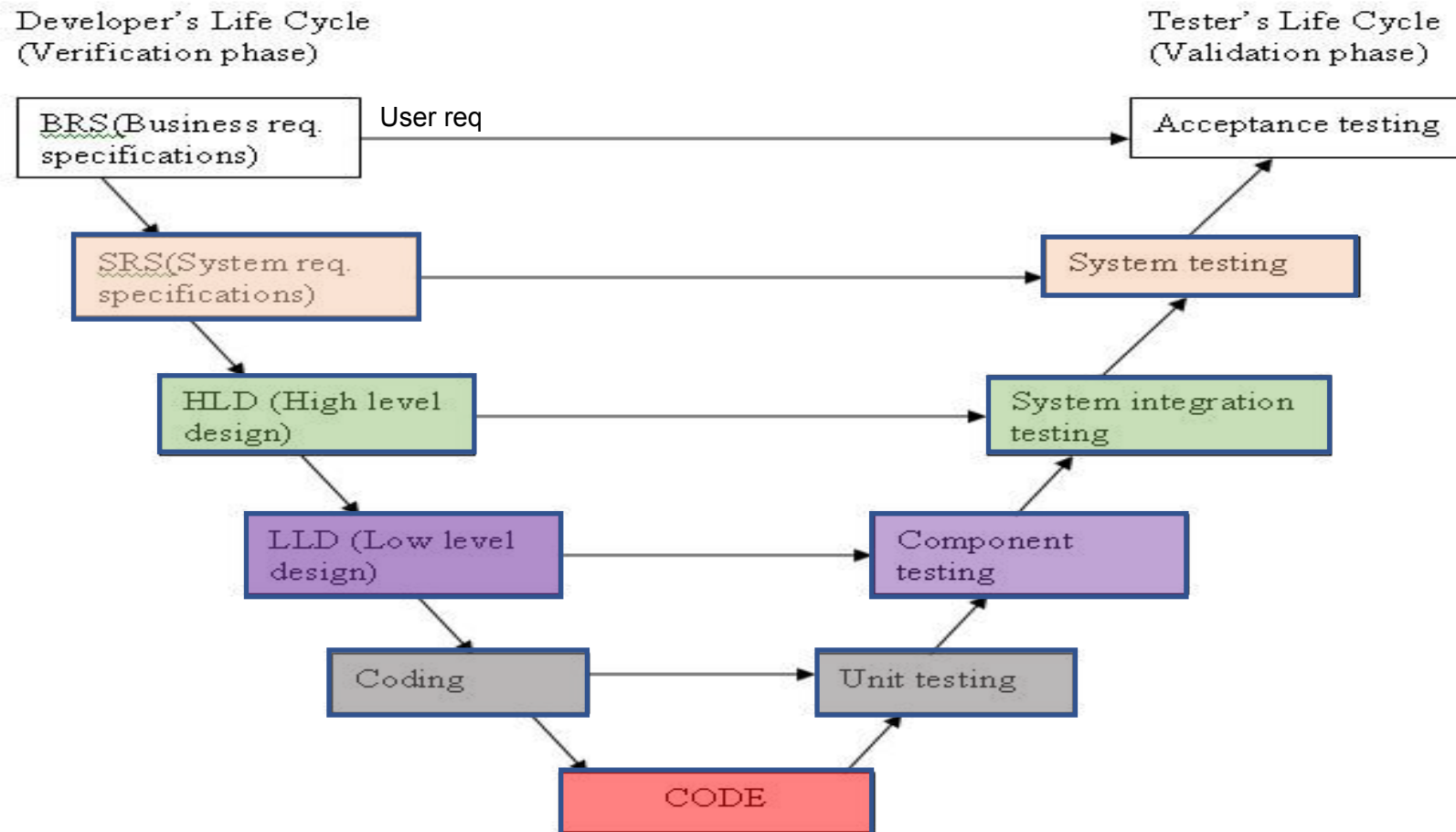


## Waterfall Model



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## V Model



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## Other Popular models

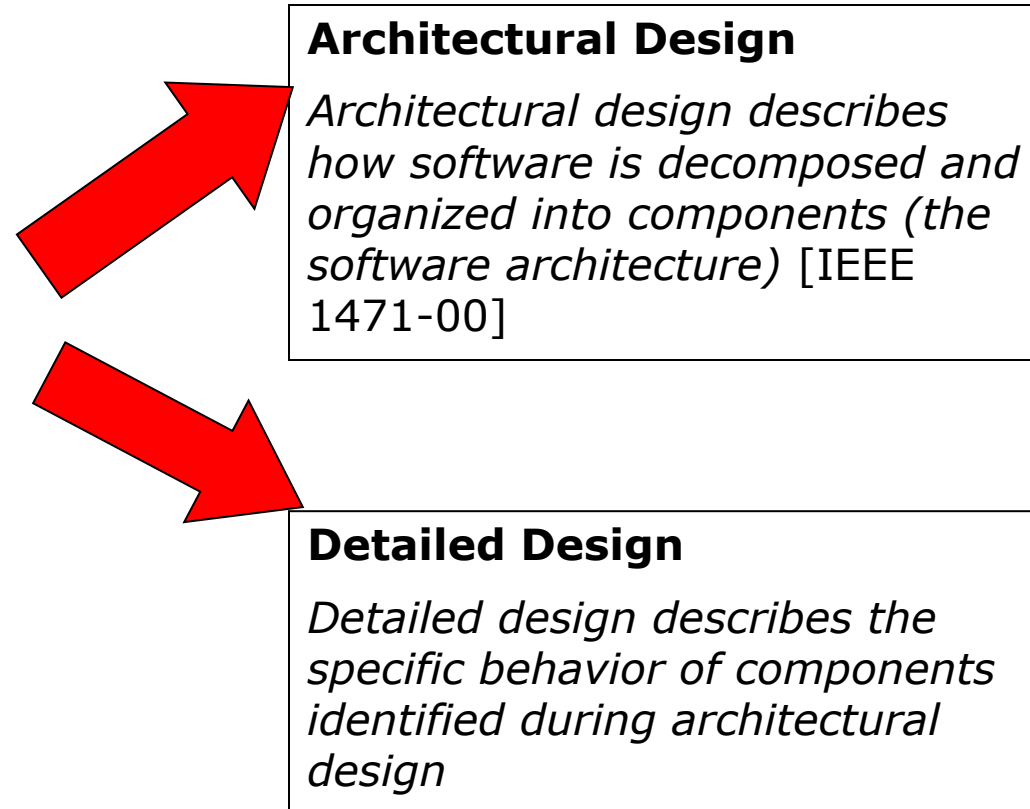
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- Prototyping
- Iterative
- Incremental
- Agile



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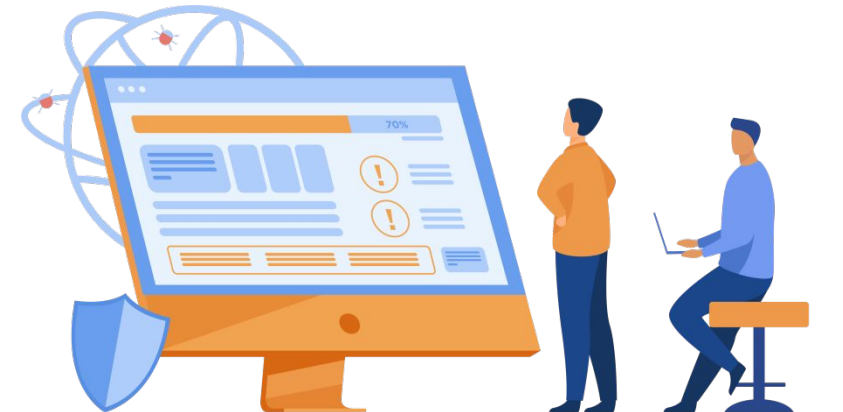
## Context of Software Design (or where does it fit in)



# Object Oriented Analysis and Design with Java

## Analysis and Design

- Analysis
  - Emphasis on *Investigation* of problem and requirement rather than solution
  - ***Do the right thing***
- Design
  - Emphasis on conceptual solution that fulfills the requirements rather than its implementation
  - ***Do the thing right***

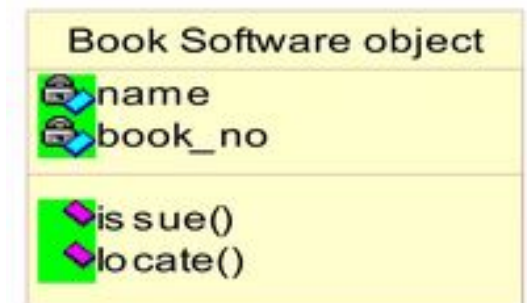
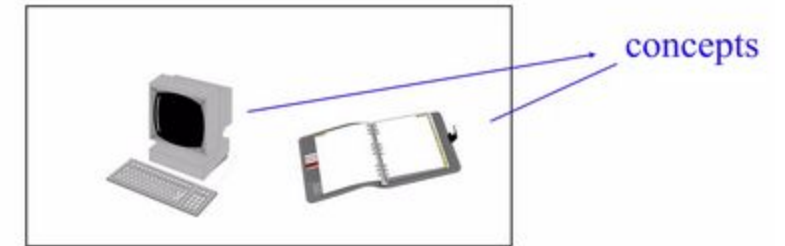




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## Object Oriented Analysis and Design

- Analysis
  - Emphasis on *finding and describing* objects/concepts and their behavior in the problem domain
  - Example - Book, Issue/return book, etc.
- Design
  - Emphasis on defining logical software objects (class, components, libraries) that will later be implemented in a OO Programming language
  - Example - Book class with attributes and methods like issue/return will be part of a Book Manager component





# THANK YOU

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