

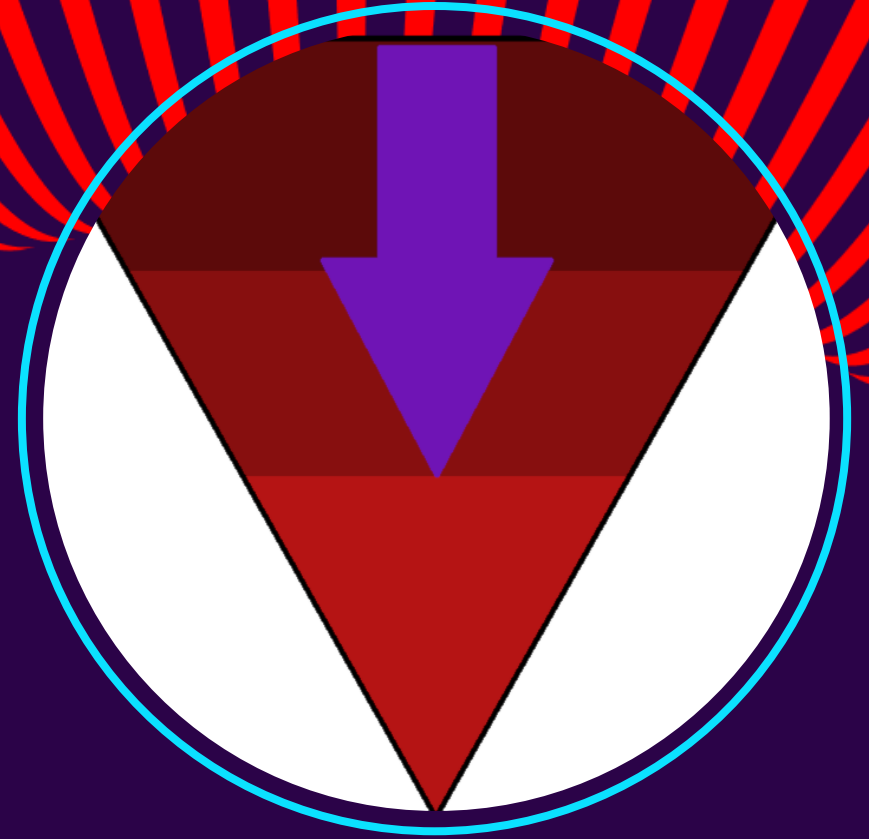
Topic 1

Top-down Approach



What is Top-down Approach ?

- A method of problem-solving
- Approach from top to bottom
- Approach from the general to the specific
- Often used in software development and project management





Why should we use the top-down approach ?

Clarity in Vision

It provides a clear, overarching view of the problem or system

Ease of Management

Breaking down complex issues into smaller, manageable parts facilitates easier handling and organization.

Structured Approach

Helps identify the most important parts first, so you can focus and prioritize solving problems or tasks that have the greatest impact on the overall goal.

Efficiency in Problem-Solving

Focusing on the big picture first helps avoid losing focus on small details that are unrelated to the larger goal.



When to use the Top-down Approach ?

- The problem is complex and needs to be broken down into smaller, manageable parts.
- There is a need to understand the big picture before diving into details.
- A clear understanding of the end goal is required before starting the project.
- The solution can be divided into smaller subproblems that can be solved independently.



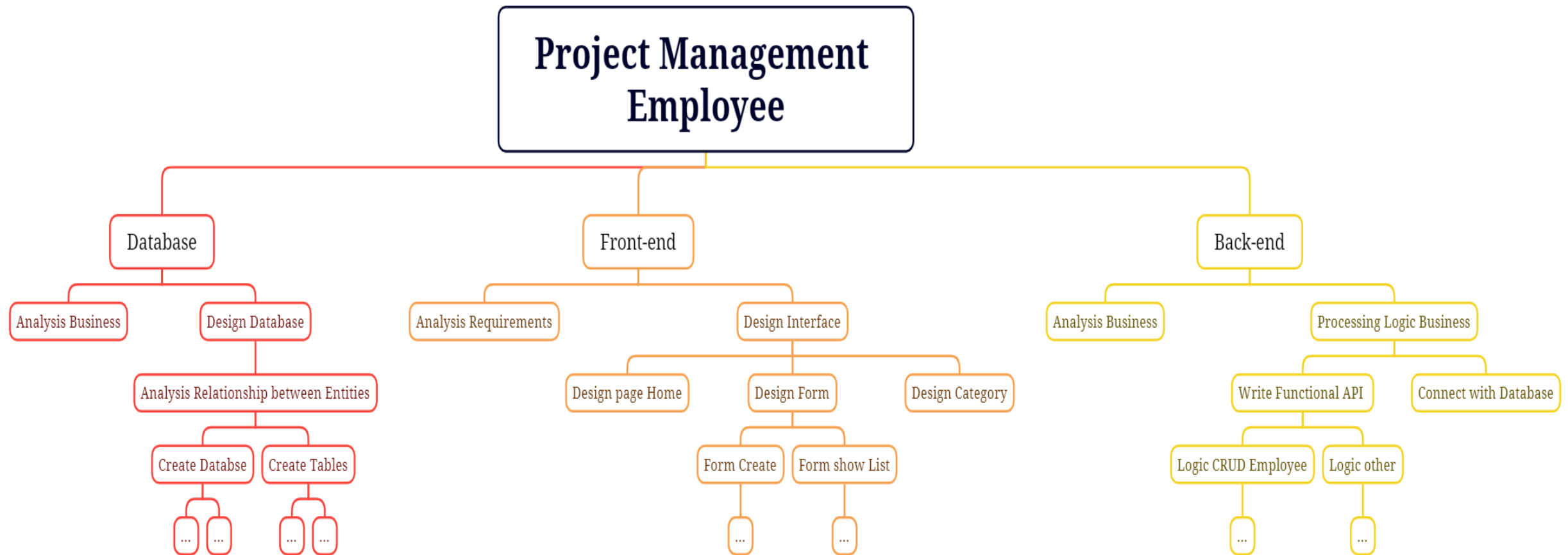
Advantages

- Easy to understand and implement.
- Provides clear objectives and expectations.

Disadvantages

- Inflexible to change
- Limited to pre-determined solutions.

Demo: Apply top-down approach in software development



THANK YOU

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