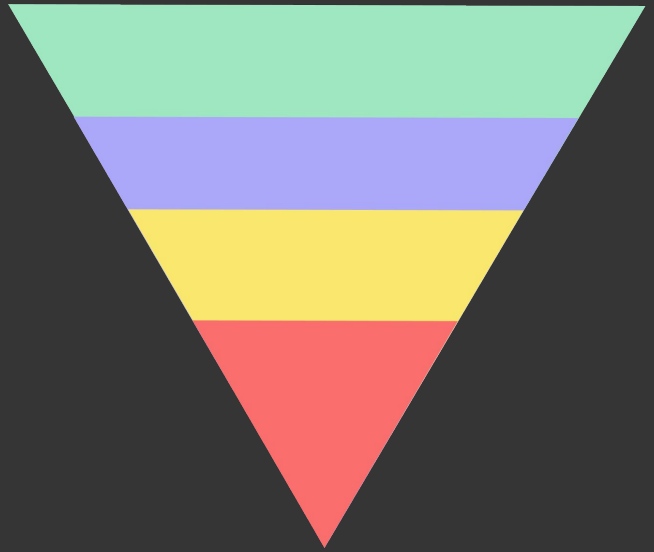
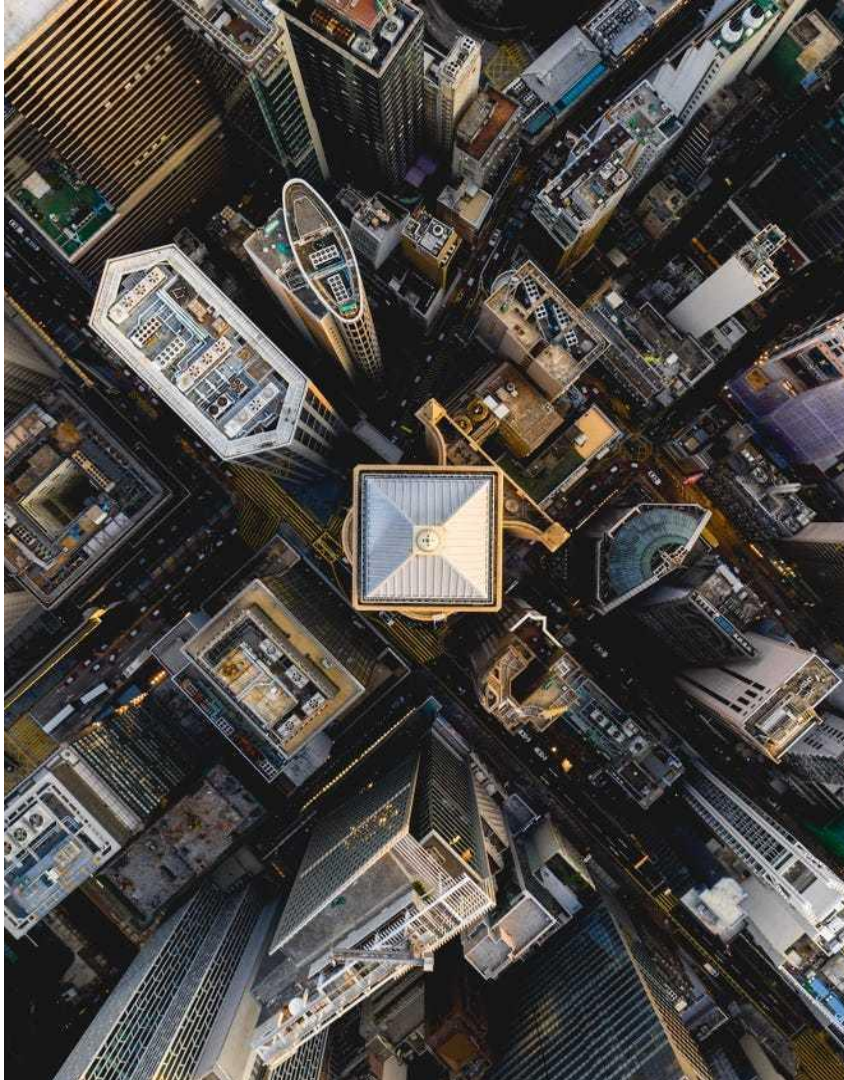
What's Top Down Approaches and How to apply in programming?



What is Top Down Approaches?

- Understand Requirements
- High Level Design
- Task Breakdown
- Detailed Design



Understand Requirements

- Requirement Analysis
- Effective Communication
- Validation of Requirements
- Risk Identification and Error Minimization
- Review and Confirmation

High-Level Design

→ Overall Structure

Construct the overall architecture of the system.

→ Main Elements

Determine the core components in the project to meet the requirements.

→ Overall Interface

Simulate the overall interface of the system.

→ Strategic Decision

Determine the deployment strategy for the project, including technology and programming language choices

Task BreakDown

Determine

Determine tasks to be broken down.

Deadline

Determine the completion time.

Teamwork

Frequently communicate with the team

SMART

Break down tasks using the SMART method.

Project Management

Utilize project management tools.

Detailed Design

→ Detailed Requirements

Understand specific requirements thoroughly.

→ Specific Steps

Break down the task into specific steps.

→ Plan Implementation

Detail each step of the implementation.

→ Teamwork

Regularly communicate with the team.

Challenges “0”

What’s Top Down approach and please share us how to apply it on your assignment on the program?

Complete the following steps:

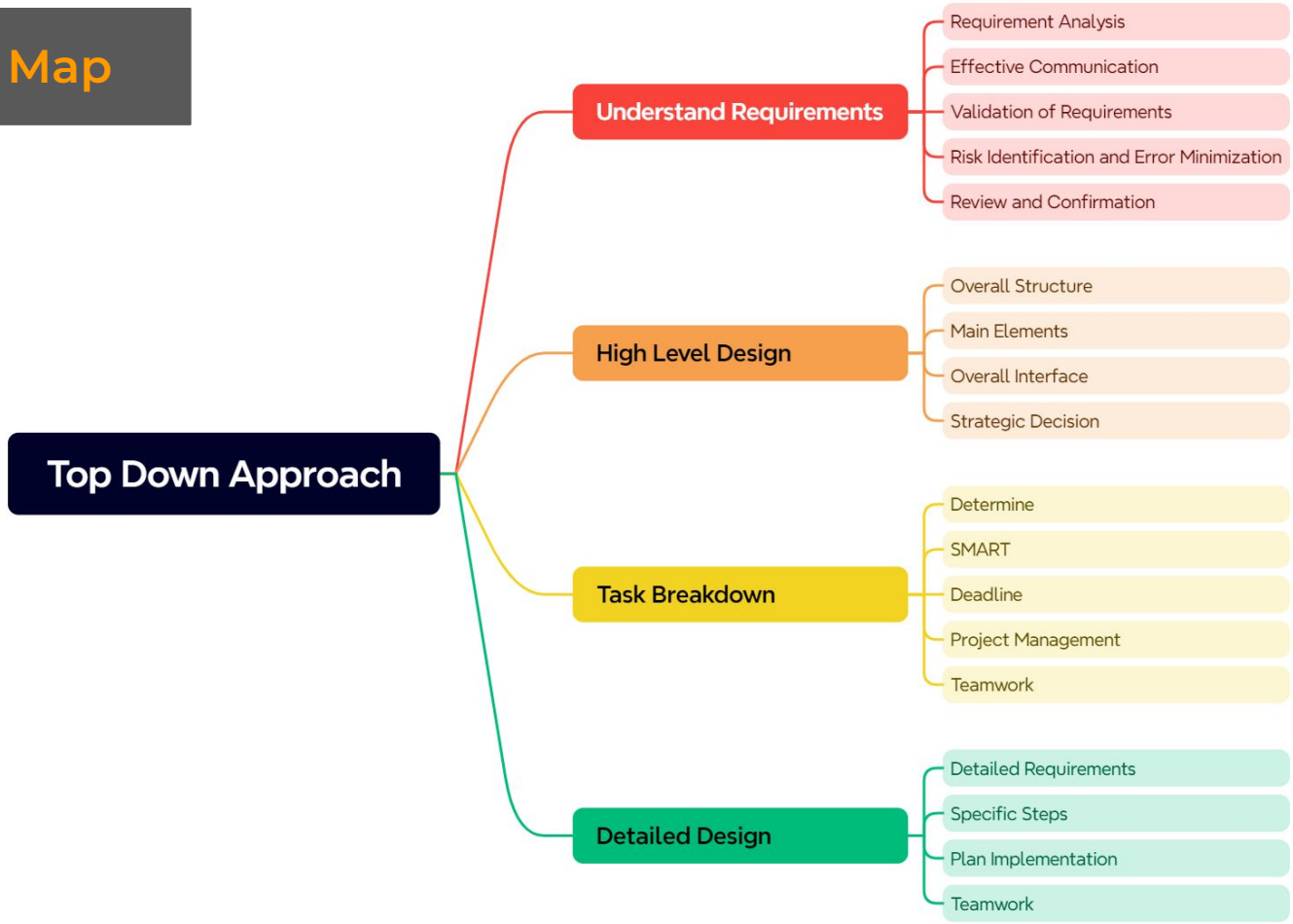
- Understands Requirements
- High-level Design
- Task BreakDown
- Detailed Design

Expected output

Google Slide and Github

Support Tools

Mind Map



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