软件工程

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2.1

Software Process

Terminology

- ◆ **Client**

- ◆ **Developer**

- ◆ **User**

Terminology

- *Client*, is the individual or organization that wants a product to be developed.

- *Developers*, are the members of the organization responsible for building that product.

- *User*, the person or persons on whose behalf the client has commissioned the product and who will utilize the software.

Software Process

- **Requirements Workflow**

- **Analysis Workflow**

- **Design Workflow**

- **Implementation & Integration Workflow**

- **Testing Workflow**

- **Post-delivery Maintenance**

- **Retirement**

Software Process

- **Requirements Workflow**

  - ➢ **The concept is explored and refined, and then the client's requirements are elicited.**

  - ➢ **Requirements document**
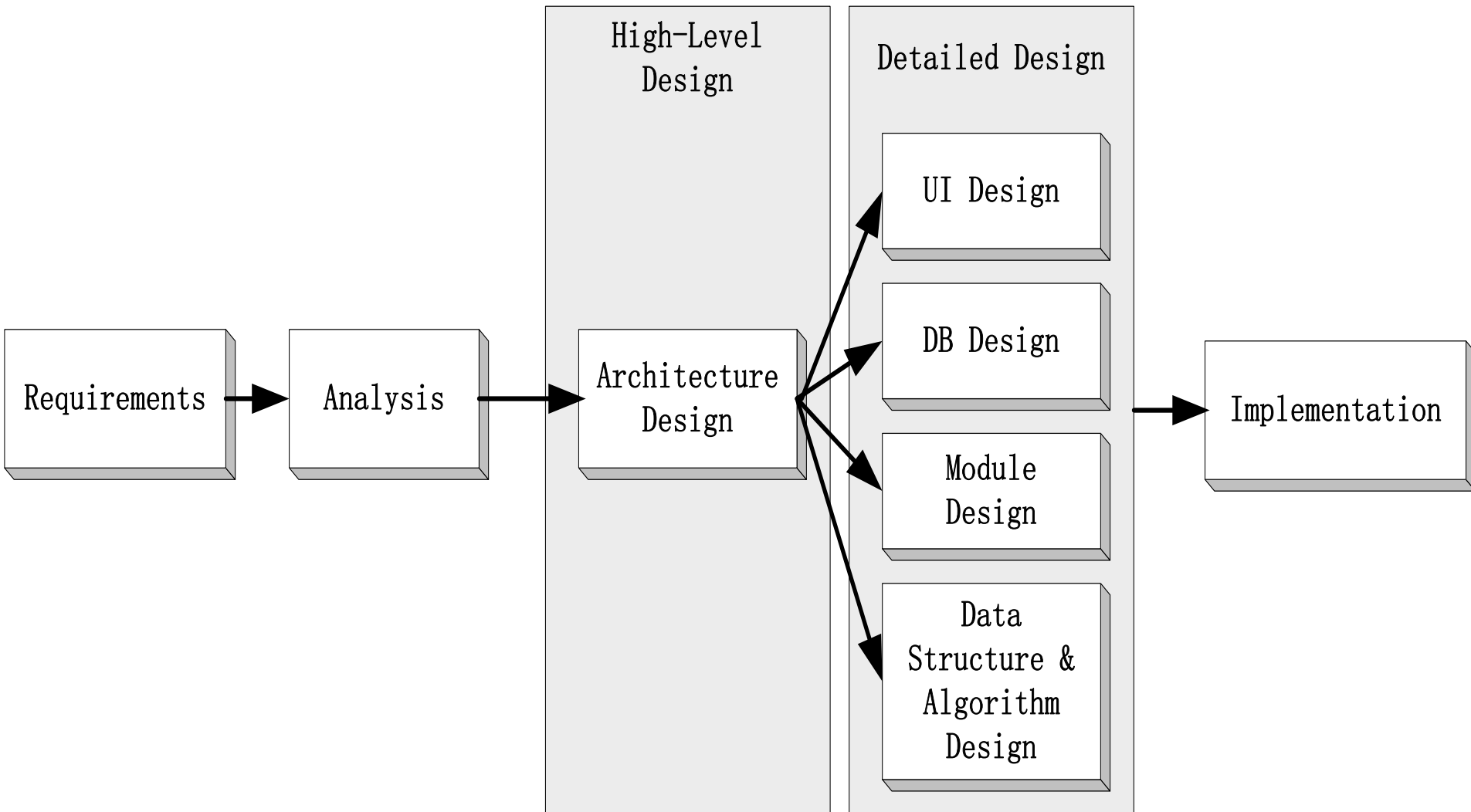
- **Analysis Workflow**

  - ➢ **The client's requirements are analyzed, and presented in the form of the specification document.**

  - ➢ **What the product is supposed to do.**

Software Process

- **Design Workflow**

  ➢ **Design documents**

  ➢ **How the product does / How to implement the product**

Software Process

- **Implementation & Integration Workflow**

    - ➤ **The various components are coded.**

    - ➤ **The components of the product are integrated.**

- **Testing Workflow**

    - ➤ **In parallel with other workflows**

    - ➤ **Execution-based testing**

    - ➤ **Non-execution-based testing**

Software Process

- **Post-Delivery Maintenance**

  - ➢ **Maintenance includes all changes to the product once it is delivered to the users.**

    - ◆ **Corrective maintenance**

    - ◆ **Perfective maintenance**

    - ◆ **Adaptive maintenance**

- **Retirement**

  - ➢ **The product is removed from service.**