



東北大學
Northeastern University

软件工程

张爽

东北大学软件学院





2.1

Software Process



Software Process

- ◆ **Client**
- ◆ **Developer**
- ◆ **User**



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 Workflows

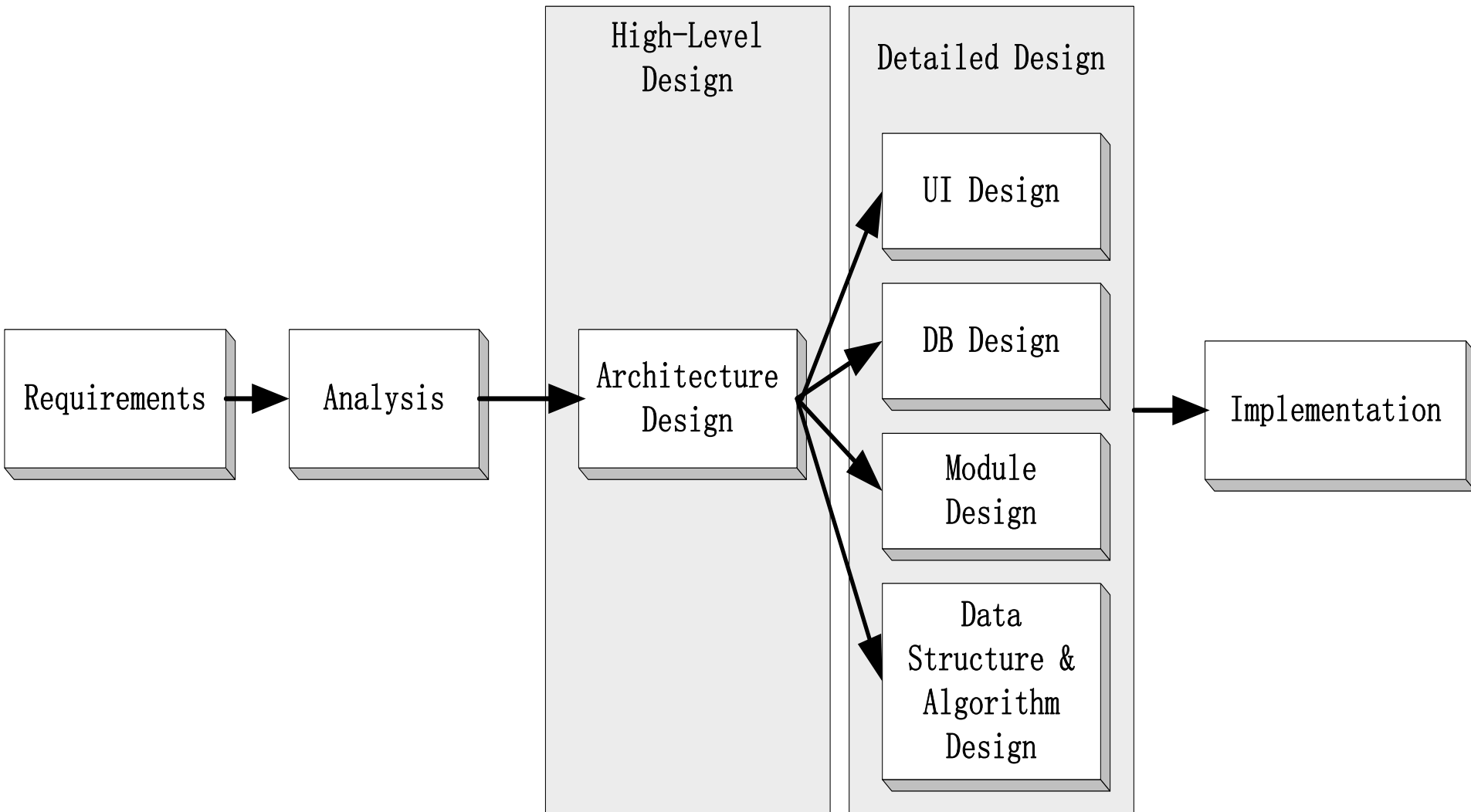
- The client's requirement are analyzed, and presented in the form of the specification document.
- What the product is supposed to do.



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.**