

Chapter 8: Component and Deployment Diagram

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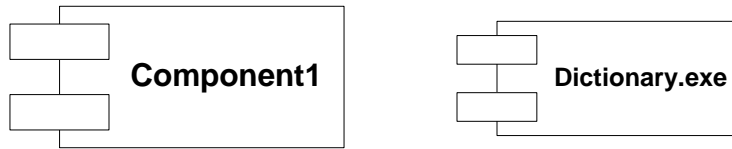
Component Diagram

- Use Component Diagram to model the physical implementation of the software (file resources).
- Components to use with Component Diagram are:
 - Components that required to run the system (library file, etc.)
 - Source code file, and data file
 - Execution file (.exe)
- We can reach a component's operations through its interface.

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Elements of Component Diagram

- Component Icon



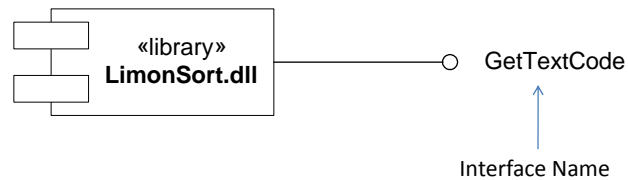
- Component Stereotype

- <<executable>>: executable file (.exe)
- <<library>>: references resources (.dll)
- <<file>>: text file, source code file, etc.
- <<table>>: database file, table file, etc.
- <<document>>: document file, web page file, etc.

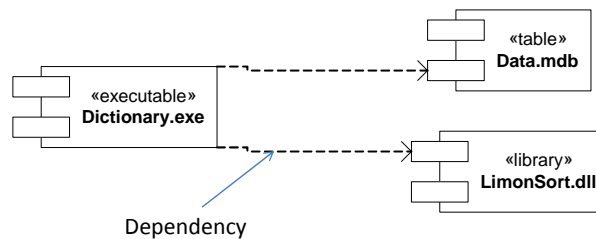
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Elements of Component Diagram

- Component Interface



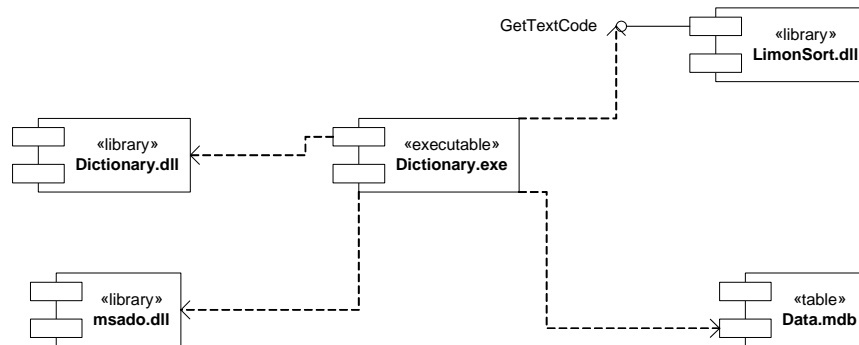
- Component Dependencies



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Example of Component Diagram

- Khmer English Dictionary
 - Limon Font, Data Store in MS-Access



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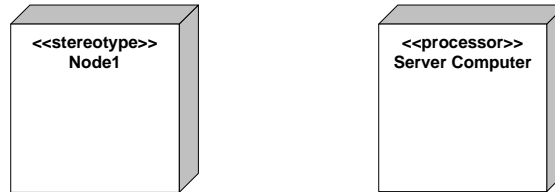
Deployment Diagram

- Introduction
 - Deployment Diagram describes the physical resources of the system (hardware).
 - The focus of the Deployment Diagram is the nodes on which the software will run.
 - The node can be PC Client, Storage device, Server, etc.
 - Deployment view shows the physical arrangement of run-time computational resources, such as computer and its interconnections.

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Elements of Deployment Diagram

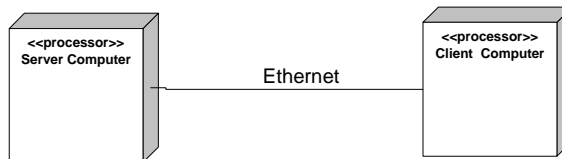
- Node:
 - Computer Client, Computer Server, Switch, Router, Modem, Printer, etc.



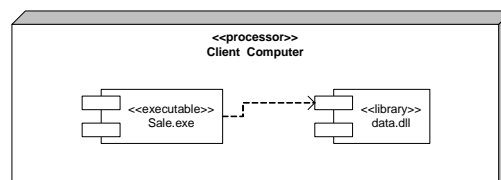
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Elements of Deployment Diagram

- Association:
 - Ethernet link, Parallel link, etc.

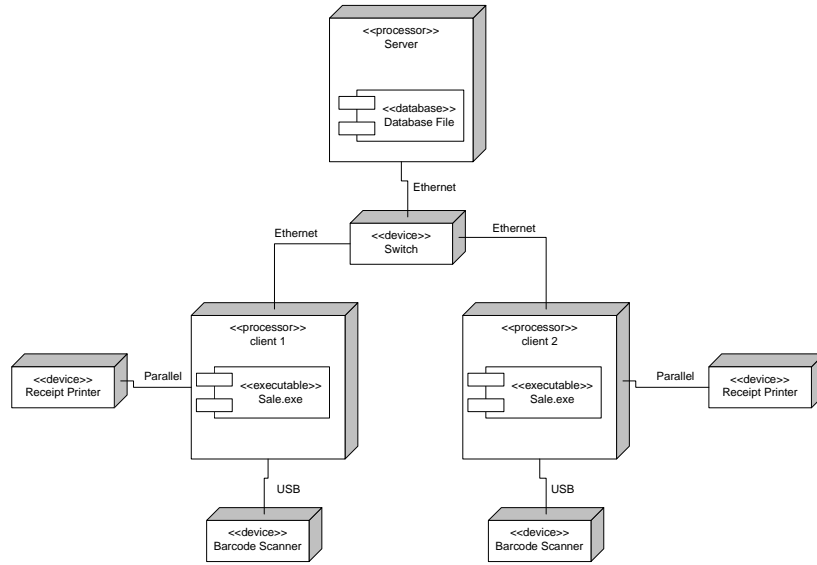


- Component and Nodes



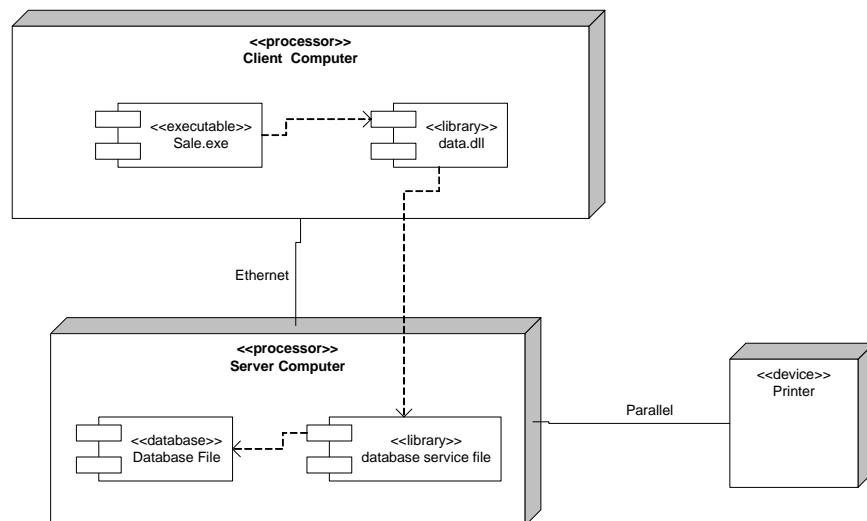
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Example of Deployment Diagram



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Example of Deployment Diagram



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