





















































Application Architectures

Transaction Processing Systems

- Database systems using transactions e.g. ATM transaction
- Interactive systems in which users make asynchronous requests
- Transaction manager ensures that transaction is properly completed

Information Systems

- Type of transaction processing system
- Allows controlled access to a large base of information
- Increasingly web-based and accessed through a web browser

Language Processing Systems

 Translate a natural or artificial language into another representation of that language e.g. a compiler translates an artificial programming language into machine code; natural language processing systems may translate from French to German

DIE UNTERNEHMERISCHE HOCHSCHULE

6020 Innsbruck / Austri

office@mci.edu

27



What you should have taken away from this class:

- A software architecture is a description of how a software system is organized. Properties of a system
 such as performance, security, and availability are influenced by the architecture used.
- Architectural design decisions include decisions on the type of application, the distribution of the system, the architectural styles to be used, and the ways in which the architecture should be documented and evaluated.
- Architectures may be documented from several different perspectives or views. Possible views include
 a conceptual view, a logical view, a process view, a development view, and a physical view.
- Architectural patterns are a means of reusing knowledge about generic system architectures. They
 describe the architecture, explain when it may be used, and discuss its advantages and disadvantages.
- Commonly used architectural patterns include Model-View-Controller, Layered Architecture, Repository, Client-server, and Pipe and Filter.
- Transaction processing systems are interactive systems that allow information in a database to be remotely accessed and modified by a number of users. Information systems and resource management systems are examples of transaction processing systems.
- Language processing systems are used to translate texts from one language into another and to carry out the instructions specified in the input language. They include a translator and an abstract machine that executes the generated language.

DIE UNTERNEHMERISCHE HOCHSCHULE® MCI MANAGEMENT CENTER INNSBRUCK 6020 Innsbruck / Austria Universitätsstraße 15

office@mci.edu

28



