

- [Architectures]: Explain? Types
 - [Enterprise architecture]: Explain
 - [Software architecture]: Explain
 - [System architecture]: Explain? EG? Components
 - [Technology architecture]: Explain
 - [Application architecture]: Explain
 - [System Architecture patterns or style]: Explain? Properties? Benefits? Types
 - [Pipe and filters]: Explain
 - [Data-centric]: Explain
 - [Component-based]: Explain? EG
 - [Layered]: Explain
 - [Combing system architectural patterns]: Explain
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- [Web-based applications]: Explain
 - [Software as a Service]: Explain? EG
 - [Web-services]: Explain? EG
 - [Interoperability]: Explain
 - [Distributed architecture]: Explain? Types
 - [Client-server]: Explain
 - [Three-layer architecture]: Explain? Components
 - [View layer]: Explain
 - [Business logic layer/domain layer]: Explain
 - [Data layer]: Explain
 - [Advantages of Internet deployment]: Explain
 - [Disadvantages of internet deployment]: Explain
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- [*Describe the *system* environment*]: Explain? Constraints? Architecture diagrams
 - [Location diagrams]: Explain
 - [Network diagrams]: Explain
 - [Deployment diagrams]: Explain
 - [*Design the application components*]: Explain?
 - [Designing the application components boundaries]: Explain? Types of grouping
 - [Actors]: Explain? EG
 - [Shared data]: Explain
 - [Events]: Explain
 - [Designing the application components integration]: Explain
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- [*Design and integrate the database*]: Explain
 - [Relationship between Database and DBMS]: Explain
 - [Difference between data administrator and database administrator]: Explain
 - [Design the database]: Steps?
 - [Distributed database architectures]: Explain? Methods
 - [Horizontal partitioning]: Explain

- [Vertical partitioning]: Explain
 - [Data partitioning and data replication]: Explain
- [Methods to protect the database]: Explain