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layered architecture also known as the n tier architecture is a design pattern that organizes a software system into a set of horizontal layers each layer has a specific responsibility and introduction in this article we re going to look at the layered architecture in software development we ll give an overview of what it is its components and outline its characteristics next we ll also describe the benefits and drawbacks and give examples of situations where they are appropriate for use with a layered architecture applications can enforce restrictions on which layers can communicate with other layers this architecture helps to achieve encapsulation when a layer is changed or replaced only those layers that work with it should be impacted common architectural principles separation of concerns drive ui from data models single source of truth unidirectional data flow recommended app architecture modern app architecture this guide encompasses best practices and recommended architecture for building robust high quality apps the cloud application architecture guide is designed to help you navigate these changes the cloud application architecture guide is organized as a series of steps from the architecture and design to implementation a thin guide that frames out the application architecture space and maps relevant principles patterns and practices for application types layers

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