Md. Lutton Rahaman ID: IT-21042 Layered Anchitecture model of an online Judge -) used to model the interfacing of sub systems. -) organises the system into a set of loyers each of which provide a set of services. -> Supports the incremental development of Sub-systems in different layers. Whon a layers interface changes, only the adjacent layer is affected. -> Howeverr, often antificial to sustitucture systems in this way, In this way,

Organizer the system into layers with trelated

Organizer the system into layers with trelated functionality associated with each layer. A layer provide services to the layer above it so the lowert-level layers trepriesent come Services that are lively to be used throughout the 645 tem.

used when building new facilities on top of exhting systems, when the development is spread across soveral teams with each team responsibility for a layer of functionality

When there is a requirement for multi-level security

Advantage:Allows preplacement of entire layers so long as
the interface is mainted. Redundant facilities
can be provided in each layer to increase the
dependability to the system.

Disadvamlage: In practice providing a clean Separation between layers in often difficult and a high-lovel layer may have to interact directly with lower-level layers trather than through the layer immediately below it.

performance can be a problem because of multiple levels of interpretion of a service trequest as it is prod processed at each layer.