✡ Layered architecture model of an online judge system:

Layered architecture is a model in which a network process is divided into sub-tasks and each sub-task is assigned to a specific layer. In a layered architecture, each layer provides an interface for the next higher layer, and elements can only access elements of their own or a lower layer.

An online judge system (OJS) is a platform that evaluates the correctness of programs. The core element of an OJS is the judge system, which accepts solution codes from users, compiles and executes them and validates their behavior.

The components of an OJS typically include:

↳ Web clients

↳ a repository of problem sets

↳ multiple servers

Online Judge System has 4 layers:

1. Presentation layer.

2. Application layer.

3. Processing layer.

4. Data layer.