Assignment Name: Layerred Anchitecture Model of an Online judge system:

Creating a layered Architecture model for an online Judge system involves undenstanding its structure and components. Herre's how you can create and origanise young handwritten dreawing:

Steps to Create Handwritten Diagnam:

- 1. Choose layens:
 - · presentation layer
 - -> web on mobile Intenface
 - -) Displays problem, usen submissions and results.
 - · Application layers;
 - -> Handles problem submission, solution evalution and usen requests.
 - · Business logic layen;
 - -) Corce functionalities like Compiling code, running test cases, and schoing.
 - · Data Analysis Layers;
 - Tintercacts with databases for user data, problem sets and submission history.

- 2. Identity Components:
 - -> Authentication & Authorization
 - -> Code submission & Execution queue.
 - -) Compiler, test lase management, scorcing Afgorithm
- -) usen profile Data, submission log
- -) cloud platforms, Sandboxes, Databases.
- 3. Dreaw the Diagream y
 - -) use rectangular box or layers to represent each layer.
 - -) Add Arcrows to indicate data flow between layers.
 - -) label components with each layer.
- 4. Test Case flow Example.
 - > User Submits code -> Application queues the Code -> Business logic Compiles and tests 1st -> Result rotorced in the database -> presentation Bleonix display the results

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OJ Architecture





