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Computer Networks(DS-N)

**ASSIGNMENT 02**

**PAGER REPORT:**

Server Connects with client:

Client As a Student:

A client enters “zero” to configure themselves as students for the program to start. The configuration is also sent to the server to remember the identity of the client. Then the student is asked to write in their Roll-Number. That Roll Number is sent to the server, then matched by reading all the csv files present in the directory. After Completing all Tasks, child process exits and the socket is closed.

**If the Roll Number** **is found**:

* particular data rows are extracted and saved in an array. Sending a confirmation to the client.
* Then the client is asked to enter which course Marks do they want to view.

The course details are sent to the server. The server then finds if that particular course exists.

**If the Roll Number** **is Not found**:

* A not found confirmation is sent to the client.

**If the Course is found:**

* A confirmation is sent to the client.
* The Data is sent to the client.

**If the Course is Not found:**

* A not found confirmation is sent to the client.

Client As A Teacher:

A client enters “one” to configure themselves as teachers for the program to start. The configuration is also sent to the server to remember the identity of the client. Then the client is asked to write in their Name. After Completing all tasks, child process exits and the socket is closed.

**If the Name is found**:

* Information view option
* Add another student’s data option.

**If the Name is not found**:

* Option to create File or not
* If yes then create File with the name: Ask Course names to insert into File
* Option to add data of student right away.
* Else Exit

Admin As A Server:

* Operates for many students and teachers
* All operations Add, view , search , correctness done by server.
* On the termination of all teachers and students, percentages of students Calculated by admin.