**EECE 351 Progress Report: Attendance Server**

After receiving the project details, the first step we took was to research topics related to databases and SQL. We decided to work with MySQL, and created 2 simple databases:

* **351\_InstructorRecords** that contains 1 table **InstructorCredentials** where we stored the allowed instructors **ID, Username,** and **Password**.
* **351\_ClassAttendanceInfo** that contains 1 table **StudentsAttendence** where we stored students’ IDs **S\_ID,** **Date, In\_Time, Out\_Time,** and **Total\_Time**.

Creating these databases allowed us to start experimenting with java to interact with the databases. After a lot of researching and testing, we had 2 working pieces of code **AttendenceServer.java** and **AttendanceClient.java**.The server we created is multithreaded, and successfully interchanges information with the client and the database to allow the client to enter his credential, view the attendance information, and modify the database. However, all of those operations were done via the client code, by entering information on the console.

Now the next step is to use the logic of the code to prompt the client an interface, and exchanges information with the attendance server. Having no experience at all in this area, each team member researched diverse methods to achieve the milestone. After trying out multiple approaches and writing a lot of code we ended up not using, we found out that the best approach would be using JSP. After researching how to use JSP and html/CSS, we were able to have a good-looking login page on the localhost, where the instructor is supposed to enter his credentials. We also used **ngrock** to be able to run the server on the WAN.

A screenshot of a computer

Description automatically generated

What is left to do is to be able to use JSP to link pages to each other in a secure way and solidify the GUI. The code interacting with the database is written in **attendanceServer.java.** We just need further our knowledge concerning JSP and use the already written code for the server-database communication.During the coming week, we will continue our research on JSP to be able to start finalizing the project.