

### Things I installed:

- jdk-17.0.17
- apache-tomcat-9.0.111
- MySQL Workbench 8.0.44
- Eclipse (tho I'm not using it just yet)

### Other things I'm using:

- Maven to manage dependencies and automate build (make sure we're using the same versions of each package, and to compile code)  
\*\*gets automatically installed with the extension below

### VS Code Extensions

- C/C++
- Community Server Connectors
- Extension Pack for Java

**Data Flow:** Browser (login.jsp) → Tomcat Server → JDBC → MySQL → send result back

### Parts we currently need:

- We need to convert and replace trial.html → login.jsp
  - since html is static, it can't interact with backend and pull data from MySQL to render dynamically → why we need jsp
  - we need to remove the localStorage login logic in JavaScript (?)
  - change what the form submits
  - change gmail to username in form submission (right now she asks for gmail)
- LoginServlet.java — the JDBC part, handles the logic (checks the credentials with the DB, creates session, etc.)
- fix the MySQL, updating the schema to enforce constraints and non-nullability and specific requirements
  - viral's html code implemented password requirements (8+ characters, capital and lowercase letters, etc), so we need to update the sql entries to match those requirements she set

Another thing:

1. you guys should learn how to use git because we will be using it throughout the project.
2. firstly u will need to **install git** if you don't already have it
3. then u have to **authenticate to git**, by configuring your name and username, and setting up authentication (ssh, pat, or password)
4. and then finally you should **learn basic commands** like pull, push, merge, branch, checkout
5. the most important thing is **pushing your files to github**, which is a 3 step process done like git add <files>, git commit -m "message", git push origin <branch\_name>
6. **ask chatgpt** for all of this
7. **here's a game to learn git-> [https://learngitbranching.js.org/?locale=en\\_US](https://learngitbranching.js.org/?locale=en_US)**

