

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 cant 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
 - virali'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 <brach_name>
6. **ask chatgpt** for all of this
7. **here's a game to learn git-> https://learngitbranching.js.org/?locale=en_US**

