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Topic: Validation Research **Name: Ameya Joshi**

The objective of the research is to check if the forms throughout the system have correct validation rules set or do we need some changes/additions.

Index.jsp:

- The username and password are sanitized using PreparedStatements. Thus, we can say that they are safe from SQL Injections.

Suggestions:

- A check for empty fields is not present. Javascript can be used to do this check. Thus, unnecessary execution of servlet is prevented and server load is reduced.
- Check username password for illegal characters. No check present as of now.
- Do not allow semi-colons as an added measure to prevent Injection attacks.

Register.jsp:

- Check if username already exists is present.
- On the fly check for password match present.
- Regex to check if an email id is valid present.

Suggestions:

- No constraints of length of the password of characters used in the password.
- A check to validate if the email id belongs to the user can be incorporated, i.e., sending mail to user with a link to confirm the address.

Display.jsp:

- The project allows only valid files to be uploaded by the user.
- However, it does not display an error message if the file type is not valid.

Suggestions:

- Display error message when user tries to upload an invalid file.
- Moreover, if the user can be given permission to upload only certain file types, that would be even better.