

Water Quality Monitoring and Flood Detection Inspection and Testing Report

Group 18

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Inspection

The following are the flaws in the login and the registration module:

1. Variable names can be more descriptive.
2. More comments can be added to make the code more readable.
3. Cookies can be added to improve caching and performance.
4. The application can be made more secure by encrypting the data entered by users. This will ensure the protection of the user's data.

The following are flaws in the code rendering views:

1. Variable names can be more descriptive.
2. More comments can be added to make the code more readable.
3. The JavaScript code could be placed in the assets/javascript folder in the rails project. It is currently placed in the index.html.erb file in the rails project folder.
4. The css code could be placed in the assets/stylesheets folder in the rails project. It is currently placed in the index.html.erb file in the rails project folder.
5. Code has redundant components.
6. Indentation in code can be improved, to make the code more readable.

Testing

Test Cases:

Sl no	Inputs	Expected Outputs	Pass/Fail
1.	Invalid Email format	The prompt "Invalid email id" is displayed	Pass
2.	Invalid User Name	The prompt "Invalid User Name" is displayed	Pass
3.	Special characters in the User Name field	The prompt "Invalid username format" is displayed.	Pass
4.	Blank inputs fields	Prompt displays "Input fields are empty"	Pass
5.	Incorrect input- email id entered in an incorrect format	Prompt displays "Invalid email id"	Pass
6.	Existing user tries to create a new account with the same email id	Prompt displays "Account exists for this email id"	Pass
7.	Existing user tries to create a new account with the same username and a different email id.	Prompt displays" Account for this user name exists"	Pass
8.	Pointer points in white region of the flood detection meter	No alert email sent	Pass

9.	Pointer points in the yellow region of the flood detection meter	No alert email sent	Pass
10.	Pointer points in the red region of the flood detection meter	Alert email is sent to the user's email id.	Pass