

Date	10-Nov-22
Team ID	PNT2022TMID00111
Project Name	Project - Efficient water quality analysis and prediction using ML
Maximum Marks	4 marks

Test case ID	Feature Type	Component	Test Scenario
HomePage_TC_OO1	UI	Home Page	Verify user is able to see the home page when user clicked on submit button
HomePage_TC_OO2	Functional	Home Page	Verify the UI elements in home page
Prediction_TC_OO3	Functional	Home page	Verify whether the model is giving correct output
Prediction_TC_OO4	Functional	Home page	Verify whether the model is giving correct output

Popup_TC_OO4	non functional	Home page	Verify if the browser gives popup as "empty field" if some values are left empty and predicted
Pre-Requisite	Steps To Execute	Test Data	
		<a href="http://127.0.0.1:5000/predict">http://127.0.0.1:5000/predict</a>	
	<ol style="list-style-type: none"> <li>1. Enter URL and click go</li> <li>2. click on gmail link and github link</li> <li>3. Verify hardness, turbidity etc popup with below UI elements: <ul style="list-style-type: none"> <li>a. Email link</li> <li>b. Github link</li> <li>c. Submit button</li> <li>d. Want to check whether water is safe or not for consumption? click submit button</li> </ul> </li> </ol>	<a href="http://127.0.0.1:5000/predict">http://127.0.0.1:5000/predict</a>	
	<ol style="list-style-type: none"> <li>1. Enter URL(<a href="http://127.0.0.1:5000/predict">http://127.0.0.1:5000/predict</a>) and click go</li> <li>2. Enter the values</li> <li>3. Enter Valid values for respected parameters to check whether the "water is safe for consumption"</li> <li>4. fill in all values</li> <li>5. Click on predict button</li> </ol>	pH value:8 hardness:323 solids:2240 chloramine:13 sulfate:1 conductivity:323 organic_compound:13 trihalomethane:56 turbidity:6	
	<ol style="list-style-type: none"> <li>1. Enter URL(<a href="http://127.0.0.1:5000/predict">http://127.0.0.1:5000/predict</a>) and click go</li> <li>2. Enter the values</li> <li>3. Enter Valid values for respected parameters to check whether the "water is not safe for consumption"</li> <li>4. fill in all values</li> <li>5. Click on predict button</li> </ol>	pH value:1 hardness:323 solids:2 chloramine:8 sulfate:5 conductivity:753 organic_compound:4 trihalomethane:100 turbidity:4	

	1.Enter URL( <a href="http://127.0.0.1:5000/predict">http://127.0.0.1:5000/predict</a> ) and click go 2.Enter the values                      3.Enter Valid values 4.leave some values empty 5.Click on submit button	pH value: "empty" hardness:323 solids:2 chloramine:8 sulfate:5 conductivity:753 organic_compound:4 trihalomethane:100 turbidity:4
	1.Enter URL( <a href="http://127.0.0.1:5000/predict">http://127.0.0.1:5000/predict</a> ) and click go	

Expected Result	Actual Result	Status	Comments
home page and empty field pop should display (if any) should display	Working as expected	Pass	

<p>Application should show below UI elements:</p> <ul style="list-style-type: none"> <li>a.home page</li> <li>b.Email for queries</li> <li>c.values for prediction</li> <li>d.submit button for prediction</li> <li>e.output statement "whether the water is safe or not"</li> </ul>	Working as expected	Pass	Steps are not clear to follow
should display "water is safe for consumption"	correct result	pass	
should display "water is not safe for consumption"	correct results	pass	
Application should show 'empty field ' pop up message.	popup shown	pass	

Application should redirect the browser to email or github webpage respectively	redirected successfully	pass	
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### Test Scenarios

Verify user is able to see go to home page

Verify user is able to see home page's UI  
Verify user is able to output statement  
Verify user is get his correct output or not?

Verify whether the user gets popup if some textboxes are left empty

### Prediction

Verify user is able to get "water is safe for consumption" for entered values

Verify user is able to get "water is not safe for consumption" for entered values  
Verify the user is notified if some values are not given

### Link Redirection

verify if browser redirects to email , if it is clicked on "for queries contact xyx@gmail.com" verify if browser redirects to github repo, if it is clicked on "github link"

