

User Acceptance Testing (UAT) - Weather Based Prediction Of Wind Turbine

Project Name	Weather Based Prediction Of Wind Turbine Energy Output - A Next Generation Approach To Renewable Energy Management
Testing Period	13-20 February 2026
Environment	Localhost:5000
Team ID	LTVIP2026TMIDS83348

Test Cases

TC ID	Scenario	Steps	Expected	Actual	Pass/Fail
TC-01	Open Home Page	Open application URL (http://localhost:5000)	Home page with weather input form loads successfully	Home page loads correctly	Pass
TC-02	Submit Prediction	Enter valid weather parameters (wind speed, temperature, humidity, pressure) and click Predict	Predicted wind energy output (kW/MW) displayed on result page	Prediction displayed correctly	Pass
TC-03	Invalid Inputs	Submit form with empty or invalid values	Validation error message displayed; submission blocked	Proper validation messages shown	Pass

Sign-off

Tester Name: Indu Petla

Date: 14 February 2026

Signature:Indu Petla