				Date	05 February 2026							
				Team ID	LTVIP2026TMIDS74755							
				Project Name	Rising Waters: A Machine Learning Approach To Flood Prediction.							
				Maximum Marks	4 marks							
Test suite ID	**Feature Type**	**Component**	**Test Scenario**	**Pre-Requisite**	**Steps To Execute**	**Test Data [for a random Test Case]**	**Expected Result**	**Actual Result**	**Status**	**Commnets**	**TC for Automation(Y/N)**	**BUG ID**	**Executed By**
TC_01_InputPage	UI	Home / Input Page	Verify user can see input fields for environmental parameters	Application running	Open application	NIL	Temperature, Humidity, Rainfall, Cloud Cover fields displayed	Working as expected	Pass	NIL	N	NIL	Lalitendra
TC_02_ValidInputPrediction	Functional	Prediction Module	Verify prediction with valid inputs	Model loaded successfully	Enter valid input values → Click Predict	Temp: 30, Humidity: 85, Cloud Cover: 75, Annual: 1200	System should display "Flood" or "No Flood"	Working as expected	Pass	NIL	N	NIL	Kranthi, Devi
TC_03_InvalidInput	Functional	Input Validation	Verify system handles empty or invalid input	Application running	Leave fields empty → Click Predict	Empty fields	Error message displayed	Working as expected	Pass	NIL	N	NIL	Lalitendra, Manideep
TC_04_ModelLoading	Functional	ML Model	Verify trained model (floods.save) loads correctly	Model file available	Start Flask application	NIL	Model loads without error	Working as expected	Pass	NIL	N	NIL	Devi, Laitendra
TC_05_ScalerFunctionality	Functional	Data Preprocessing	Verify StandardScaler transforms input correctly	transform.save available	Enter input → Submit	Random valid values	Input scaled and prediction generated	Working as expected	Pass	NIL	N	NIL	Manideep, Kranthi
TC_06_ResultPage	UI	Result Page	Verify result page displays correct output message	Valid prediction generated	Submit valid input	Any valid values	Result page shows "Flood Chance" or "No Flood Chance"	Working as expected	Pass	NIL	N	NIL	Kranthi