#### **Test Report - Random Date Generator (In-Scope Only)**

**Project:** Random Date Generator - CodeBeautify

**Scope:** Core functionality of the random date generator

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**Environment:** Chrome 139.0, Windows 10

## 1. Objective

Verify that the random date generator produces valid dates within the specified range, including edge cases such as leap years and equal start/end dates.

## 2. Test Approach

- Functional testing: Validate generated output is always a date.
- Boundary testing: Check extreme ranges and equal start/end.
- **Negative testing**: Enter invalid ranges (Start > End).
- **Exploratory testing**: Generate multiple dates to observe randomness.

## 3. Test Scenarios & Results

Tes t ID	Scenario	Steps	Expecte d Result	Actual Result	Status
TC- 01	Default generatio n	Click "Generate Random Date" without entering range	Date is generate d in default range	Works as expected	✓ Pass
TC- 02	Valid custom range	Set From=01- Jan-2000, To=31-Dec- 2005	Generat ed date within 2000-20 05	All generate d dates within range	✓ Pass
TC- 03	Boundary test (equal dates)	From=01- Jan-2020, To=01-Jan- 2020	Always returns 01-Jan- 2020	Works correctly	✓ Pass
TC- 04	Leap year check	From=01- Feb-2016, To=29-Feb- 2016	Date includes 29-Feb-2016 when generate d	Leap day appears correctly	✓ Pass
TC-	Invalid		Tool	Still	× Fail

05	range	From=01-Jan 2020	should reject invalid range	generates a date (unexpect ed	
TC- 06	Large range	From=01- Jan-0001, To=31-Dec- 9999	Generat es valid date within range	Works correctly	✓ Pass
TC- 07	Randomn ess check	Generate 20 times	Dates should vary, no clusterin g	Appears random	✓ Pass
TC- 08	Default output format	Generate date	Output in default format (e.g., MM-DD- YYYY)	Works correctly	✓ Pass
TC- 09	Change output format (e.g., YYYY- MM-DD hh:mm:ss	Select format, generate date	Date matche s selected format	Works as expected	✓ Pass
TC- 10	Custom	forma t	Date output matches custom	Works as expected	✓ Pass

	date format	Enter custom format (e.g., YYYY/MM/ DD, DD MMM YYYY)	format		
TC- 11	Invalid custom format	Enter invalid format string	Should show error or default to standard format	Defaults silently to standard format	♠ Observation
TC- 12	Edge case with format	Custom format with day/month names	Date correctly formatte d	Works	✓ Pass

# 4. Observations

- All format options are functional.
- Custom format works but invalid format strings are not validated currently defaults silently, which could confuse users.

• Core generation logic and formatting otherwise reliable.

### 5. Conclusion

The random date generator is functional but fails to handle invalid ranges. This reduces trust in correctness and should be fixed with simple validation.