# Random-Date-Generator Defects and Improvements

## Defects:

1. **Incorrect Date Output Format:**

When selecting the "Year Date Month hh:mm:ss" option, the generated output is displayed incorrectly.

Example: 2021 August 07 23:02:52 instead of 2021 07 August 23:02:52

A screenshot of a computer

Description automatically generated

1. **Custom Date Format Changes Without Selection:**

If the user modifies values in the **Custom Date Format** field without explicitly selecting the **Custom Date** option in the **Date Output Format** dropdown, the generated dates still change, even though the format remains unchanged.A screenshot of a computer

Description automatically generated

If we change custom date format without selecting it in output format drop down:

A screenshot of a calendar

Description automatically generated

1. **Zero Value in "How Many Dates to Generate" Field:**

* If the user enters 0 in the How Many Dates to Generate field and clicks Generate Random Date, there is no validation or error message.
* The system should display an error message like "Please select a positive value to generate dates", or the Generate Random Date button should remain disabled until a valid positive value is entered.

1. **Unlimited Character Input in Custom Date Format Field:**

The Custom Date Format field allows an excessively long input without any character limit. There should be a restriction to prevent unintended behavior.A screenshot of a computer

Description automatically generated

1. **Incorrect Date Range Handling:**

Users can set a future date as the Start Date and a past date as the End Date, yet no validation error is displayed. The system should enforce logical date ordering and notify the user if the start date is later than the end date.A screenshot of a calendar

Description automatically generated

## Improvements:

1. **Validation for "How Many Dates to Generate" Field:**

The field should not accept 0 as a valid input to prevent generating an empty result.

1. **Custom Date Format Field Should be Disabled by Default:**

The Custom Date Format field should remain disabled until the user selects the Custom Date Format option in the Date Output Format dropdown.

1. **Enhanced Error Validations for Better User Understanding:**

Proper error messages should be implemented for incorrect inputs, ensuring users can easily understand and resolve issues.

1. **Automated Date Generation on Input Change:**

Random dates should be updated automatically when input values change, eliminating the need for a Generate Random Date button. If this feature is implemented, the button can be removed to streamline the user experience.