## **Non-functional Testing**

## **Non-Functional Testing During Development**

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Error handling was outside of the functional specification, and is brought down to the developer to implement and test - meaning that it had to be non-functionally tested. I tried multiple UI components to show the exception returned from the server, such as an banners at the top of the holiday entry form, popups, and toast notifications.

From a usability standpoint, toast notifications align well with several key heuristics. They maintain visibility of system status by succinctly informing the user about errors or updates in real-time, without requiring a dedicated action (such as closing a popup). This non-intrusive design respects the user's workflow, reducing unnecessary disruption and cognitive load. Additionally, toast notifications adhere to established consistency and standards by appearing in a predictable corner of the screen and typically dismissing themselves after a short duration. As a result, they strike a balance between ensuring the message is noticed and allowing the user to continue working without being forced to acknowledge the notification.

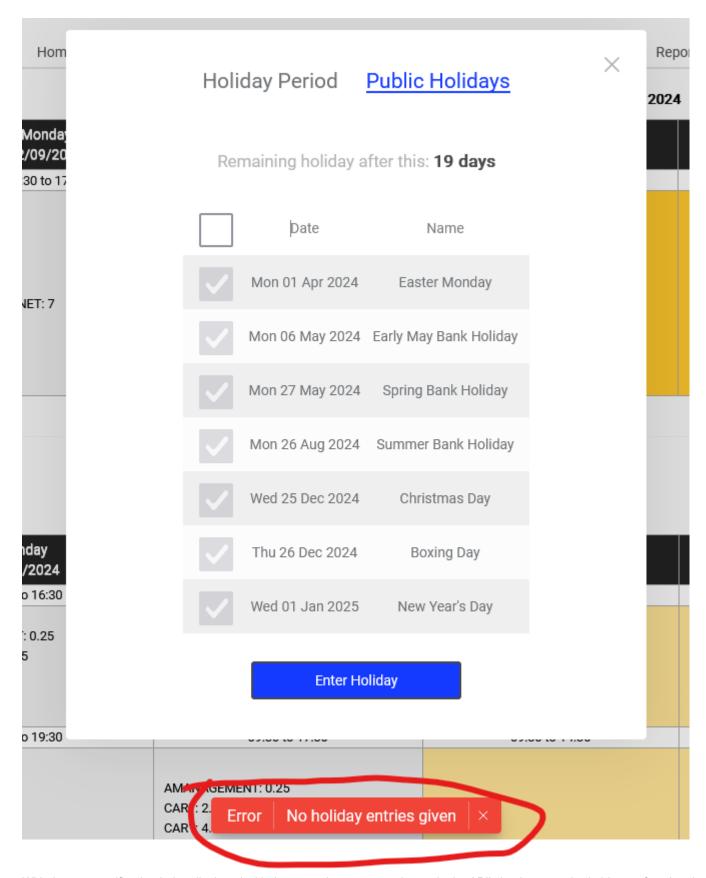
Toast notifications were the best pick.

```
public void CreateHolidayEntriesForUser(List<HolidayEntryItem> holidayEntries, int userId)
{
    // Start of CreateHolidayEntriesForUser...

    bool noHolidayEntires = holidayEntries.Count == 0;
    if (noHolidayEntires)
    {
        throw new Exception("No holiday entries given");
    }

    // Rest of CreateHolidayEntriesForUser...
}
```

To test that the toast notifications are working, I pressed the "Enter Holiday" without any holidays selected:



With the toast notification being displayed with the exception message thrown in the API's business method, this non-functional test is considered a success.