

# UI Testing Checklist

## Interesting Strings, Numbers, Data Attacks, and More

### Strings

- Minimum allowable length
- Minimum allowable length – 1
- Maximum allowable length
- Minimum allowable length + 1
- Long strings (255, 256, 257, 1000, 1024, 2000, 2048 or more characters)
- Accented Chars (àáâãäåçèéêëìíîïðñòóôõö, etc.)
- Common Delimiters and Special Characters ( “ ‘ ` | / \ , ; : & < > ^ \* ? Tab )
- Leave Blank
- Single Space
- Multiple Spaces
- Leading Spaces
- SQL Injection ( ‘select \* from customer )
- HTML/Java injection:
  - `<font size=10>Size 10</font>`
  - `<input type="button" onclick="alert('hi')" value="click me">`
- GB18030
  - Meng: 蒙
  - Wei: 魏
  - Yi: 彝
  - Zang: 藏

### Numbers

- Minimum allowable value
- Minimum allowable value – 1
- Maximum allowable value
- Minimum allowable value + 1

- 0
- -1
- 32768 ( $2^{15}$ )
- 32769 ( $2^{15} + 1$ )
- 65536 ( $2^{16}$ )
- 65537 ( $2^{16} + 1$ )
- 2147483648 ( $2^{31}$ )
- 2147483649 ( $2^{31} + 1$ )
- 4294967296 ( $2^{32}$ )
- 4294967297 ( $2^{32} + 1$ )
- Negative
- Decimal (0.0001)
- With Commas (1,234,567)
- European Style (1.234.567,89)

## Paths/Files

### *Opening/Editing Existing File*

- Long file names/paths (>255 chars)
- Special characters in file name/path (space \* ? / \ | < > , . ( ) [ ] { } ; : ' " ! @ # \$ % ^ &)
- File does not exist
- File is write-protected
- File is locked
- File is corrupted
- Non-local locations (http, ftp, OneDrive, GoogleDocs, Azure, etc)
- File is on another OS (e.g. Mac files have an extra Resource that Windows apps may not understand)

### *Creating New File*

- Long file names/paths (>255 chars)
- Special characters in file name/path (space \* ? / \ | < > , . ( ) [ ] { } ; : ' " ! @ # \$ % ^ &)
- File already exists
- No disk space left to create the file

- File crosses a disk sector (is this even still a valid test case)

## Time and Date

- Different Formats (June 5, 2001; 06/05/2001; 06/05/01; 06-05-01; 6/5/2001 12:34)
  - If testing in a browser, change your language pack.
  - Verify display format is consistent across all screens
- Time difference between machines
- Crossing time zones
- Leap days
- Always invalid days (February 30, September 31)
- Feb 29 in non-leap years
- Daylight savings changeover

## Web Site Navigation

- Back button (watch for 'Expired' messages and double-posted transactions)
- Refresh
- Bookmark the URL. Select Bookmark when logged out
- Change the URL (change/remove parameters to access unauthorized info)
- Multiple browser instances open
- Different browsers (Chrome, FireFox, mobile, etc.)

## Browser Preferences

- JavaScript off
- Cookies off
- Resize browser window
- Change font-size preferences
- Change language pack
- Change browser zoom settings (125%, 150%, etc.)

## Look and Feel

- Fonts/sizes/colors/casing are consistent across all similar screens in the UI
- Icons/Verbiage for similar functionality (Add, Delete, Search, etc.) are consistent across the UI

- Different monitor resolutions
- Running OS in High Contrast mode
- Tab order

### Domain-Specific Rules

- Invalid IP address: (999.999.999.999, 1.1.1, etc.)
- Invalid email address: (no “@”, no “.”, space, etc.)
- Invalid age: (-1, 1000)

### Other Cases

- Required fields (are they really required?)
- Field widths (e.g. the LastName field should be longer than the FirstName field)
- Tooltips?
- Combo Boxes/Dropdown values make sense
- Appropriate error messages for incorrect values