**PA submission fail points: Software 2 C#**

**Log-in Form**

* Having a drop-down for language as a secondary instead of polling the user’s computer – allowing user to choose even though they may or may not have the underlying code to base this on the user’s computer settings.
* Failure on the translation (either doing the form or the messages but not both or just improper look up of the user’s locale), time zone settings / storing in UTC, alert messages not working for appointments within 15 minutes, or missing exception controls
* Commons issues are only portions of the form are translated in various amounts (form only, not error messages / parts of the form only / error messages only)

**Customer Records**

* Record duplication
* Updates do not save properly
* Data record relation issues and the occasional foreign key errors

**Appointments**

* Appointments are a big sticking point due to how many aspects touch upon them, common issues are as follows:
* Date and/or time saving issues
* Most complications arise from time zone settings and how to save the times in regard to 1) the user 2) the consultant and 3) GMT
* Times do not save correctly occasionally, and save the wrong times in general
* Occasionally appointments don't update properly, whether the update saves entirely or accurately is hit or miss
* Another potential issue is that students don't include every valid field from the database to be entered or modified

**Time zones**

* Time zones are a potential pain point, depending on how the times for appointments are handled, in general though the times will or will not shift, most common is for no changes to occur, less common is for too much change to happen, or change in the wrong direction

**Exception Control**

* Exception controls are fairly common to find errors in, most submissions provide error handling for the login form and out of office hours appointments (usually by restricting dropdown values)
* Biggest issues are in handling customer data entry and for overlapping appointments
* database schema shows the database accepts varchar values for most of the customer data, and I have seen people justify different styles of zip codes and phone numbers, i.e. foreign addresses and number
* overlapping appointments are sometimes allowed, which is an issue, but overlapping appointments are sometimes allowed if a different consultant/user is logged in
* The common issues that I see with the C# submission is with the executions of the set 1 and set 2 exceptions.  Most of the students don’t understand how to properly implement the exceptions.
* Invalid/Nonexistent data is allowed to be entered

**Lambda Expressions**

* Lambda expressions are usually prevalent in all submissions, in-line comments are usually common, but sometimes the comments don't justify the use of the lambda

**Alerts**

* Alerts are another very common issue, a lot of issues occur around appointment times and how they are saved in the database vs handled in the application.
* Other potential issues occur when alerts trigger multiple times (once for every upcoming appointment etc.), or if alerts constantly pop up

**Reports**

* Sometimes the reports don't contain accurate data or the student interprets the requirements in a "not wrong but not expected" fashion e.g. consultant schedules can populate in a chaotic fashion

**Activity Log**

* Sometimes the activity log is forgotten, sometimes the activity log appears in a folder outside the project folders