
CONSULTING REGISTER: UI REPOSITORY FEEDBACK

Common Patient UI Deliverable: Codebase Feedback
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We spent some time looking through the codebase provided for the Common Patient UI for COS 420. We have compiled some feedback below based on the issues we were able to identify. As a general note, it would be useful if we could receive some level of documentation as to how you intend this code to be used, and how it works. Documentation would have simplified the bug identification process we went through.

Issues Identified:

- After saving a patient with the New Patient page with a Male sex value, the sex value is stored as Unicode NULL in JSON.
- The leading zero from a phone number is not stored in JSON – the phone number is stored as a number; it should be stored as a string.
- Date of Birth format is incorrect as per documentation. Docs specify Day-Month-Year not Month-Day-Year.
- Patient information can only be cleared from the search table by exiting the application and restarting it.
- The address display in the patient search table is too small to read an entire address.
- In the patient search, users can change the column width of the table. This is restricted to the width of the container only until a search is submitted, at which point it can exceed the container width, which creates a horizontal scroll bar.
- Searches are for only exact strings. If a user “Bob” is stored, “B” will return no results, and “bob” will return no results.
- When a search is submitted in the search view, the table column headers shift.
- If the new patient form is submitted without an NHIS number or phone number the application crashes with a NumberFormatException.
- Date verification will roll over too large day or month values into the month or year. For example, entering 35 for the day will change the date to the appropriate day of the new month. This causes the form data to change once a user deselects the field.
- There should be no “other” selection for sex – this is sex, not gender; this is a medical application, the choice is binary.
- On invalid new patient submission, the LastName, Phone Number, and NHIS fields don’t turn red to indicate an invalid submission.
- On invalid new patient submission, previously incorrect fields do not change back to white to indicate that a field is now valid – these only change back on a valid submission.

- Users can type in and delete text from the incorrect field information display.
- Fields will autofill when entering a new patient with the last correct value if an incorrect value is entered, or with nothing if no previous value was entered. However, this will autofill with the previously entered patient's data, which causes a potentially major data leak.
- Sometimes fields will not accept input – this changes when clicking off and reselecting a field.
- The NHIS number is not a field listed in the documentation – perhaps this should be the HI/NI number?
- It is not possible to search for patients multiple times in the patient search view.
- The submit button on the patient search is too large, or the window is too small – it reads “Sub...”.
- On selecting the “OK” button in the patient search, nothing happens. Furthermore, we cannot find this anywhere in the codebase tied to any type of action – the string “OK” does not appear in the codebase at all.
- The VisitView.java class appears to be a deprecated textual interface which is not tied to any other objects in the codebase. Should this be removed?
- The code has many different action listeners – for example, there are three different action listeners for sex – Male, Female, and Other. These should be combined.
- There appear to be getters and setters for entire JRadioButton objects, rather than the NewPatientPanel making objects and other classes setting their state.
- There are single-line statements up to 5000 lines long which set the entire format for the GUI. These don't appear to be human written – are you using some kind of program to auto-generate the GUI?