

The problem

In the event that any parameters change, or new ones are added; how would we change the code?

This document will describe the process of changing the frontend code for the mobile application, to adapt any changes in parameters.

Where to look

First off, we need to know where patient's parameters are displayed. Parameters are displayed in the `PatientRow` component, in the `VitalsMonitor` component found in `Live.js` and in the `MiniMonitor` component:

- `./components/PatientRow.js`
- `./components/MiniMonitor.js`
- `./views/Patients/Live.js`

New parameters

New parameters wouldn't affect the code in any way, but will not be shown in the app. To implement them in the monitor you would simply have to duplicate a few lines of code and change parameter name to the new one. The code snippet below can be found in `Live.js`, and can be used to add new parameters(replace HR with the new parameter).

```
<View style={[styles.box, styles.leftBox]}>
  <View style={styles.valueContainer}>
    <Text style={[styles.HR, styles.bigText]}>HR</Text>
    <Text style={[styles.HR, styles.bigText]}>{data.HR.value}</Text>
  </View>
  <Text style={styles.error}>{data.HR.error_message}</Text>
</View>
```

Notice that there are specific styles for each parameter, these would need to be added frontend.

Parameter changes

If one were to change the name of the HR parameter to "Pulse" the above code would not work. You would have to go into `Live.js` and change the code above from HR to Pulse.

Similar changes would be needed in `PatientRow` and `MiniMonitor`.

Trend parameters

To change the long term trend parameters available in the app, you need to make changes to the "availableDataTypes" react state located in the context. The state is currently hardcoded in the file `ContextProvider.js` to match the types available from the simulator.

- `./context/ContextProvider.js`