

Code Inspection Checklist

1. Java & Typescript

General Review

Checklist

Reviewer: Cameron Beattie

Reviewed File: FileDropzoneControls.tsx, FileDropzoneControls.test.tsx

1. Variable Declaration

- Few variables are used as this page is to set controls for a component
- ☒ Are variable names informative
 - NA
- ☒ Are variable names unique (not confusing or similar)?
- ☒ Are variable names following chosen capitalization conventions (camel case)?
 - NA
- ☒ Are variables properly initialized?
 - There are no variables
- ☒ Are variables labelled as private or public based on their use?
 - NA
- ☒ Is every declared variable used?
 - Yes
- ☒ Is there excessive use of unnecessary temporary variables?
 - No

2. Methods and method signatures including return and input types

- ☒ Do method names reflect method functionalities?
 - Yes
- ☒ Do method expected return values match the intended use of the return value?
 - NA
- ☒ Do methods have safeguards for problematic/unexpected input?

- No, but no input is required
- ☒ Is there a high cohesion between the methods within the same class?
 - NA

3. Control flow Defects

- ☒ Are Switch cases used instead of if/else blocks when appropriate?
 - NA
- ☒ Are While loops successfully terminated to avoid infinite loops?
 - NA
- ☒ Are control flows used efficiently in the handling of erroneous input?
 - NA

- ☒ Are loop variables declared properly so that their scopes are only as big as necessary?
 - NA
- ☒ Are there checks for edge cases (out of bounds) for For loops?
 - NA
- ☒ Are there else blocks used for every if condition to ensure no case goes unhandled?
 - NA

4. Code style & practices

- ☒ Is code consistently indented, spaced, and formatted?
 - Yes
- ☒ Code is well documented using inline comments and docstrings.
 - No comments in this code
- ☒ Are Expensive operations minimized (shallow object copies replacing deep ones if possible)
 - Yes
- ☒ Are generics used where possible to improve code readability & reduce complexity?
 - NA

Typescript Review Checklist

- ☒ Are type annotations and inference used?
 - NA
- ☒ Are strict Null checks in place?
 - NA

Use type inference, type annotation, and generics.

Rollbar Review Checklist

- ☒ Is Rollbar being used consistently?
 - No, but I suspect that when functionality is improved, rollbar will be implemented

2. Front End (TS & ReactJS)

- ☒ Is the single responsibility principle applied to react components?
 - Yes, this component is purely responsible for controlling the dropzone
- ☒ Are container components used strictly for managing state and business logic?
 - yes
- ☒ Are presentational components used for UI rendering and logic strictly?
 - yes
- ☒ Are related components, styles, and assets grouped within same directory?
 - yes
- ☒ Are functional components used instead of class components if possible?
 - no class components
- ☒ Are React hooks used to manage & control state & effects in functional components?
 - No hooks needed
- ☒ Are hooks called at the top level of functional components?
 - NA
- ☒ Are unnecessary re-renders avoided?
 - Yes
- ☒ Are local component states prioritized for UI-specific state matters?
 - Yes

General Additional Notes:

- There is not much going on in this file as it is just rendering radio groups, and a form control

Test File

- The test page makes sure the Fitbit and Apple watch radio buttons appear
- There are currently no statements to test with unit tests, so calculating coverage is impossible