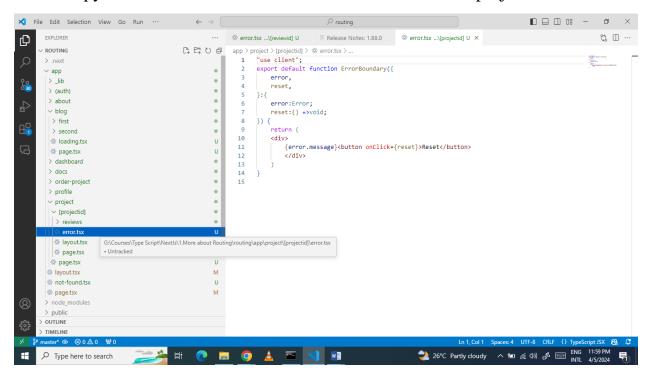
## **Handling Errors in Layout in Next.js Step-by-Step Guide with Screenshots**

## **Note:**

Continuing from the previous guide on Handling Errors in Next.js & Handling Error in Nested Routes in Next.js, this guide will discuss handling errors in layout in Next.js. In this guide, we will directly start practical implementation of handling errors in Layout in Next.js.

An `error.tsx` file can manage errors for all the smaller parts inside it (nested child segments). However, when it comes to a `layout.tsx` component in the same area, there's a difference. Errors occurring in this part aren't caught by the regular boundary because it's nested within the layout's part. So, if you examine how things are structured in that area, you'll see that the layout sits above the error boundary.

Copy the error.tsx file from the review ID folder to the projectid folder.



Update the layout.tsx file inside the projectid folder by adding the random number generator function, as highlighted in the screenshot below.

```
ズ File Edit Selection View Go Run ···
                                                                                                                                EXPLORER
Ф
       ROUTING
                                                     app > project > [projectid] > ⇔ layout.tsx > ❤ ProjectDetailsLayout
      > .next
                                                           function getRandomInt(count:number){
    return Math.floor(Math.random() * count);
      ∨ app
       > lib
       > (auth)
        > about
                                                            export default function ProjectDetailsLayout({
        > blog
                                                              children,
                                                               children: React.ReactNode
        > docs
        > order-project
                                                      11
                                                               const random = getRandomInt(2); // Generate a random integer between 0 and 1
       > profile
                                                      12
                                                               // Check if the random number generated is equal to 1 \,

∨ project

                                                               if(random==1){

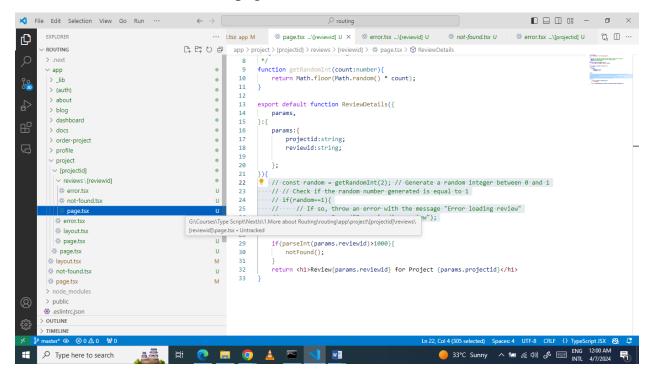
√ [projectid]

                                                              // If so, throw an error with the message "Error loading project"
throw new Error("Error loading project");

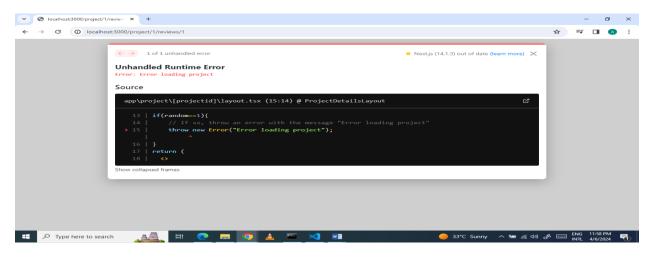
∨ reviews \ [reviewid]

                                                      16
17
         not-found.tsx
                                                      18
         page.tsx
         error.tsx
                                                                  <h2>Feature or detail of Project</h2>
        page.ts>
        page.tsx
       not-found.tsx
       🧇 page.tsx
      > public
      eslintrc.json
                             A THE CO IN 19 🛓 🛅 📢 🛂
```

Comment out the code in the page.tsx file inside the reviewid folder.

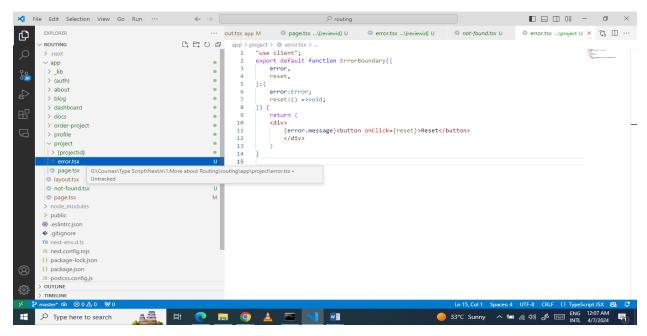


Go to the browser and navigate to <a href="http://localhost:3000/project/1/reviews/1">http://localhost:3000/project/1/reviews/1</a> and refreshing the browser until an error occurs will display the familiar "Error loading project" message. We encounter the error message "Error loading project," but there's no error boundary to catch it. Consequently, our app is now experiencing a malfunction.



The error boundary won't manage errors thrown in a layout.tsx component within the same segment. To work around this, we should relocate the `error.tsx` file to the layout's parent segment. In this case, we move `error.tsx` from the projectid folder to the project folder.

Move the `error.tsx` file from the projectid folder to the project folder.



Go to the browser and navigate to <a href="http://localhost:3000/project/1/reviews/1">http://localhost:3000/project/1/reviews/1</a> and refreshing the browser until an error occurs will display the familiar "Error loading project" message.

