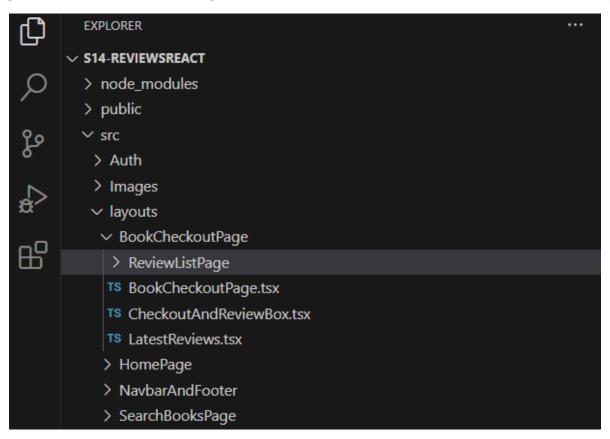
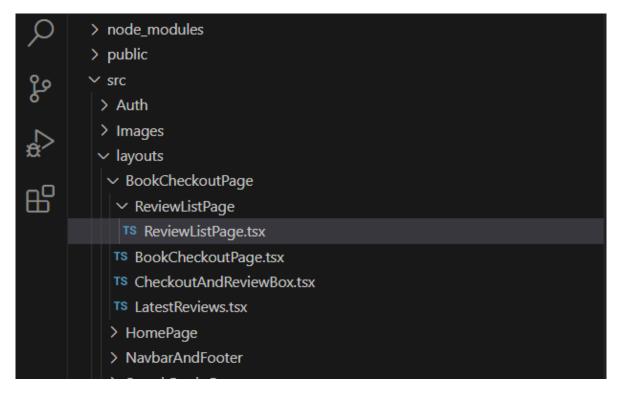
## **S15-Review List Page React**

## 1. List Page and UseState and UseEffect

Step 1 Right-click on BookCheckoutPage folder and choose "new folder". Name it ReviewListPage.



Step 2 Right-click on the "ReviewListPage" folder, and choose "New File". Name it ReviewListPage.tsx.



Step 3 Create a structure export const in the file ReviewListPage.tsx.

```
export const ReviewListPage = () => {
node_modules
                                   2
                                          return(
 public
src
> Auth
> Images
layouts
BookCheckoutPage
  TS ReviewListPage.tsx
 TS BookCheckoutPage.tsx
 TS CheckoutAndReviewBox.tsx
 TS LatestReviews.tsx
 > HomePage
 > NavbarAndFooter
```

Step 4 Create useState for reviews, pagination book. And a constant for looking up reviews.

```
TS ReviewListPage.tsx 9 •
src > layouts > BookCheckoutPage > ReviewListPage > TS ReviewListPage.tsx > [9] ReviewListPage
       import ReviewModel from "../../models/ReviewModel";
       export const ReviewListPage = () => {
         // create useState for reviews
         const [reviews, setReviews] = useState<ReviewModel[]>([]);
         const [isLoading, setIsLoading] = useState(true);
         const [httpError, setHttpError] = useState(null);
         // pagination
 11
         const [currentPage, setCurrentPage] = useState(1);
 12
         const [reviewsPerPage] = useState(5);
         const [totalAmountOfReviews, setTotalAmountOfReviews] = useState(0);
         const [totalPages, setTotalPages] = useState(0);
 15
         // Book to look up reviews, the third element of the url
         const bookId = (window.location.pathname).split('/')[2];
         return(
 21
```

Step 5 Go to BookCheckoutPage.tsx, copy fetchBookReviews useEffect, and paste it to ReviewListPage.tsx.

```
TS ReviewListPage.tsx 9+ •
                      TS BookCheckoutPage.tsx 4
src > layouts > BookCheckoutPage > ReviewListPage > TS ReviewListPage.tsx > [@] ReviewListPage
         const [totalPages, setTotalPages] = useState(0);
         const bookId = (window.location.pathname).split('/')[2];
         useEffect(() => {
           const fetchBookReviews = async () => {
             // review url, to call specific book
             const reviewUrl: string = `http://localhost:8080/api/reviews/search/findByBookId?bookId=${bookId}`;
             const responseReviews = await fetch(reviewUrl);
             if (!responseReviews.ok) {
               throw new Error("Something went wrong!");
             const responseJsonReviews = await responseReviews.json();
             const responseData = responseJsonReviews._embedded.reviews;
             const loadedReviews: ReviewModel[] = [];
             let weightedStarReviews: number = 0;
             for (const key in responseData) {
               loadedReviews.push({
                 id: responseData[key].id,
                 userEmail: responseData[key].userEmail,
                       responseData[kev].date
```

Step 6 Fix errors.

6.1 import useEffect. Click on "Quick Fix" and choose "update import from React".

Look, useEffect is imported.

```
import { useEffect, useState } from "react";
import ReviewModel from "../../../models/ReviewModel";

export const ReviewListPage = () => {

    // create useState for reviews
    const [reviews, setReviews] = useState<ReviewModel[]>([]);
    const [isLoading, setIsLoading] = useState(true);
    const [httpError, setHttpError] = useState(null);

    // pagination
    const [currentPage, setCurrentPage] = useState(1);
    const [reviewsPerPage] = useState(5);
    const [totalAmountOfReviews, setTotalAmountOfReviews] = useState(0);

    const [totalPages, setTotalPages] = useState(0);

// Book to look up reviews, the third element of the url
    const bookId = (window.location.pathname).split('/')[2];
```

#### 6.2 Modify the url.

#### Step 7 add:

- setTotalAmountOfReviews(responseJsonReviews.page.totalElements);
- setTotalPages(responseJsonReviews.page.totalPages);

```
if (!responseReviews.ok) {
    throw new Error("Something went wrong!");
}
// transfer to Json object
const responseJsonReviews = await responseReviews.json();
// get all the _embedeed data
const responseData = responseJsonReviews._embedded.reviews;
setTotalAmountOfReviews(responseJsonReviews.page.totalElements);
setTotalPages(responseJsonReviews.page.totalPages);
// create an empty arry to store the data
const loadedReviews: ReviewModel[] = [];
// initialize a review rating number,
let weightedStarReviews: number = 0;
// loop all the json data and store them into the array
for (const key in responseData) {
    loadedReviews.push({
```

Step 8 Remove 3 parts of weightedStarReviews related code

```
const loadedReviews: ReviewModel[] = [];
let weightedStarReviews: number = 0;
// loop all the json data and store them into the array
for (const key in responseData) {
  loadedReviews.push({
    id: responseData[key].id,
    userEmail: responseData[key].userEmail,
    date: responseData[key].date,
    rating: responseData[key].rating,
    book_id: responseData[key].bookId,
    reviewDescription: responseData[key].reviewDescription,
  // get all the review rating
 weightedStarReviews = weightedStarReviews + responseData[key].rating;
 ^\prime/ deal with the weightedStarReviews, make it be a rounded number to the nearest point five.
if (loadedReviews) {
  const round = (
    Math.round((weightedStarReviews / loadedReviews.length) * 2) / 2
  ).toFixed(1);
  setTotalStars(Number(round));
setReviews(loadedReviews);
```

Step 9 Modify setIsLoadingReview to setIsLoading

```
setReviews(loadedReviews);
setIsLoading(false);
};
fetchBookReviews().catch((error: any) => {
    setIsLoading(false);
    setHttpError(error.message);
});
```

Step 10 Modify the state change factor for the useEffect.

```
setReviews(loadedReviews);
setIsLoading(false);
};
fetchBookReviews().catch((error: any) => {
    setIsLoading(false);
    setHttpError(error.message);
});
},
[currentPage]);
```

Step 11 Add spinnerLoading and httpError part of the code

#### Step 12 Create code about pagination.

## 2. LIST PAGE HTML/CSS

Fill return part with the HTML/CSS code:

#### 3. LIST PAGE ROUTING

Step 1 go to app.tsx, add route for ReviewListPage, and add import for the component.

```
TS ReviewListPage.tsx 1
                        TS App.tsx 2 •
                                        TS BookCheckoutPage.tsx 4
src > TS App.tsx > [4] App
         return (
           <div className="d-flex flex-column min-vh-100">
             <Security oktaAuth={oktaAuth} restoreOriginalUri={restoreOriginalUri} onAuthRequired={customAuthHandler}>
             <Navbar></Navbar>
             <div className="flex-grow-1">
                <Switch>
                  <Route path="/" exact>
                    <Redirect to="/home"></Redirect>
                  <Route path="/home">
                    <homePage />
                  </Route>
                  <Route path="/search">
                    <SearchBooksPage></SearchBooksPage>
                  <Route path='/reviewlist/:bookId'>
                    <ReviewListPage/>
                                           Quick Fix...
                   /Route>
 43
                                            Add import from "./layouts/BookCheckoutPage/ReviewListPage/ReviewListPage"
                   <Route path="/checkout</pre>
                                            , Disable react/jsx-no-undef for this line
                    <BookCheckoutPage></
```

Step 2 In the LatestReviews.tsx, add a redirect path to the "Reach all reviews" button. It will redirect us to the review list page of a specified book.

```
TS ReviewListPage.tsx 1 •
                                         S LatestReviews.tsx
                                                               TS BookCheckoutPage.tsx 4
src > layouts > BookCheckoutPage > TS LatestReviews.tsx > № LatestReviews
       export const LatestReviews: React.FC<{</pre>
         reviews: ReviewModel[];
         bookId: number | undefined;
        mobile: boolean;
       }> = (props) => {
         return (
           <div className={props.mobile ? "mt-3" : "row mt-5"}>
             <div className={props.mobile ? "" : "col-sm-2 col-md-2"}>
               <h2>Latest Reviews: </h2>
             <div className="col-sm-10 col-md-10">
               {/* check if there is a review */}
                {props.reviews.length > 0 ? (
                    {props.reviews.slice(0, 3).map((eachReview) => (
                      <Review review={eachReview} key={eachReview.id}></Review>
                    <div className="m-3">
                      <Link type="button" className="btn main-color btn-md text-white" to={() / reviewlist/${props.bookId}`[)}</pre>
                      Reach all reviews.
```

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## example1user@email.com

September 5, 2023

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First book is pretty good book overall

## testuser2@gmail.com

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