i have created e-library website. in here have [bookld]/page. In here, after user click heart icon that books should add to favorite book to that user. So that book details should goes to user profile's favorite section.

This is categories/[category]/[bookld]/page. Update heart icon to do task

```
"use client";
import { useState, useEffect } from 'react';
import { useSession } from 'next-auth/react';
import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';
import { faHeart, faDownload } from '@fortawesome/free-solid-svg-icons';
import axios from 'axios';
export default function BookPage({ params }) {
 const { category, bookId } = params;
 const [book, setBook] = useState(null);
 const [isFavorite, setIsFavorite] = useState(false); // Track if the
 const [loading, setLoading] = useState(true); // Track loading state
 const { data: session } = useSession();
 useEffect(() => {
   const fetchBookDetails = async () => {
       const { data } = await axios.get(`/api/books/${bookId}`);
       setBook(data.book);
       setLoading(false);
       console.error('Failed to fetch book details:', error.message);
   const checkIfFavorite = async () => {
     if (session) {
axios.get(`/api/user/favorite?email=${session.user.email}`);
          const favoriteBooks = data.favorites.map(fav => fav. id); //
          setIsFavorite(favoriteBooks.includes(bookId)); // Check if
```

```
console.error('Failed to check favorites:', error.message);
 fetchBookDetails();
 checkIfFavorite();
}, [bookId, session]);
const handleDownload = async () => {
   if (session) {
     await axios.post('/api/user/download', {
       email: session.user.email,
       bookId: bookId,
       bookTitle: book.title,
     const link = document.createElement('a');
     link.href = book.pdfUrl;
     link.setAttribute('download', book.title);
     document.body.appendChild(link);
     link.click();
     link.remove();
      alert('You need to be logged in to download the book.');
  } catch (error) {
   console.error('Failed to update user downloads:', error.message);
const handleAddToFavorites = async () => {
   if (session) {
     const response = await axios.post('/api/user/favorite', {
       email: session.user.email, // User's email
      });
```

```
if (response.status === 200) {
        setIsFavorite(true); // Update favorite state
       alert('Book added to favorites successfully!');
      alert('You need to be logged in to add a book to favorites.');
   alert('Failed to add book to favorites.');
if (loading) {
if (!book) {
 return Failed to load book details.;
     style={{
       position: 'absolute',
       inset: 0,
       backgroundImage: `url(${book.backgroundImageUrl ||
       backgroundPosition: 'center',
       backdropFilter: 'blur(10px)',
       style={{
         position: 'absolute',
```

```
inset: 0,
            backgroundColor: 'rgba(0, 0, 0, 0.5)',
       <div className="bg-gray-100 py-2 px-4 mb-8 rounded-lg shadow-md">
         <nav className="text-gray-600 text-sm font-semibold">
            <a href={ `/categories/${category} `}
className="hover:text-gray-800">
              BACK TO {category.toUpperCase()}
        <div className="grid grid-cols-1 lg:grid-cols-2 gap-12 bg-white</pre>
         <div className="flex justify-center">
              src={book.coverImageUrl}
              alt={book.title}
              className="w-2/3 lq:w-1/3 h-auto object-contain rounded-lq"
         <div className="flex flex-col justify-between">
              <h1 className="text-4xl font-semibold text-gray-900"</pre>
mb-6">{book.title}</h1>
mb-6">{book.description}
                Author: <span className="font-medium"
```

```
Category: <span className="font-medium"</pre>
            {session && (
 onClick={handleAddToFavorites}
 className={`flex items-center justify-center w-12 h-12
 rounded-full shadow-md transition duration-200 ${
   isFavorite ? 'bg-green-500' : 'bg-red-500 hover:bg-red-600'
                  onClick={handleDownload}
bg-blue-500 text-white rounded-full shadow-md hover:bg-blue-600 transition
duration-200"
                  <FontAwesomeIcon icon={faDownload} className="w-6 h-6"</pre>
 );
```

## This is api/bookld/route

```
import { NextResponse } from 'next/server';
import multer from 'multer';
import { promisify } from 'util';
import fs from 'fs';
import path from 'path';
import connect from '../../../utils/db';
import Book from '../../../models/Book';
const storage = multer.diskStorage({
 destination: (req, file, cb) => {
   const uploadPath = 'public/uploads';
   if (!fs.existsSync(uploadPath)) {
     fs.mkdirSync(uploadPath, { recursive: true });
   cb(null, uploadPath);
 filename: (req, file, cb) => {
   const sanitizedFileName = file.originalname.replace(/[^a-zA-Z0-9.-]/q,
 ').replace(/\s+/g, ' ');
   cb(null, `${Date.now()}-${sanitizedFileName}`);
const upload = multer({    storage: storage });
const uploadMiddleware = promisify(upload.fields([{ name: 'coverImage' },
export const GET = async (req, { params }) => {
 await connect();
 const { id } = params; // Extract bookId from the route params
   return NextResponse.json({ error: 'Book ID is required' }, { status:
400 });
```

```
const book = await Book.findById(id).exec();
   if (!book) {
   return NextResponse.json({ book }, { status: 200 });
 } catch (error) {
   console.error('Error fetching book:', error);
   return NextResponse.json({ error: 'Failed to fetch book' }, { status:
500 });
};
export const PUT = async (req, { params }) => {
   await uploadMiddleware(req, null);
   const bookId = params.id; // Extract bookId from the URL path
   if (!bookId) {
      console.error('Book ID missing in PUT request');
     return NextResponse.json({ error: 'Book ID is required' }, { status:
400 });
   const formData = await req.formData();
Object.fromEntries(formData.entries());
   if (!title || !author || !description || !category) {
```

```
return NextResponse.json({ error: 'All book fields are required' },
 status: 400 });
     title,
     author,
     description,
     category,
   if (formData.has('coverImage')) {
     const coverImage = formData.get('coverImage');
     updatedData.coverImageUrl = `/uploads/${coverImage.name}`;
   if (formData.has('pdf')) {
    const pdf = formData.get('pdf');
     updatedData.pdfUrl = `/uploads/${pdf.name}`;
   const updatedBook = await Book.findByIdAndUpdate(bookId, updatedData,
 new: true });
   if (!updatedBook) {
     console.error('Book not found in database');
     return NextResponse.json({ error: 'Book not found' }, { status: 404
});
   return NextResponse.json({ message: 'Book updated successfully', book:
return NextResponse.json({ error: 'Failed to update book' }, { status:
500 });
```

```
export const DELETE = async (req, { params }) => {
 await connect();
   const bookId = params.id; // Capture book ID from URL path
   if (!bookId) {
     console.error('Book ID is missing');
     return NextResponse.json({ error: 'Book ID is required' }, { status:
400 });
   console.log(`Deleting book with ID: ${bookId}`);
   const book = await Book.findById(bookId);
     console.error(`Book with ID ${bookId} not found`);
     return NextResponse.json({ error: 'Book not found' }, { status: 404
   if (book.coverImageUrl) {
     const coverImagePath = path.join(process.cwd(), 'public',
book.coverImageUrl);
     if (fs.existsSync(coverImagePath)) {
       fs.unlinkSync(coverImagePath);
   if (book.pdfUrl) {
     const pdfPath = path.join(process.cwd(), 'public', book.pdfUrl);
     if (fs.existsSync(pdfPath)) {
       fs.unlinkSync(pdfPath);
```

```
// Delete the book from the database
await Book.findByIdAndDelete(bookId);

console.log(`Book with ID ${bookId} deleted successfully`);
  return NextResponse.json({ message: 'Book deleted successfully' }, {
  status: 200 });
  } catch (error) {
  console.error('Error deleting book:', error);
  return NextResponse.json({ error: 'Failed to delete book' }, { status:
  500 });
  }
};
```

## This is api/favorite/[email]/route

```
import { NextResponse } from 'next/server';
import dbConnect from '../../../utils/db';
import User from '../../../models/User';
import Book from '../../../models/Book';
export async function GET(req) {
   const { searchParams } = new URL(req.url);
   const email = searchParams.get('email');
   if (!email) {
     return NextResponse.json({ message: 'Email is required' }, { status:
400 });
   await dbConnect();
   const user = await User.findOne({ email
}).populate('favorites.bookId');
   if (!user) {
     return NextResponse.json({ message: 'User not found' }, { status:
404 });
```

```
return NextResponse.json({ favorites: user.favorites }, { status: 200
});
 } catch (error) {
   return NextResponse.json({ message: 'Server error' }, { status: 500
});
export async function POST(reg) {
 await dbConnect();
   const { email, bookId } = await req.json(); // Extract email and
bookId from the request body
   if (!email || !bookId) {
     return NextResponse.json({ error: 'Email and Book ID are required'
   const user = await User.findOne({ email });
     return NextResponse.json({ error: 'User not found' }, { status: 404
});
   const book = await Book.findById(bookId);
     return NextResponse.json({ error: 'Book not found' }, { status: 404
```

```
user.favorites = [];
   const alreadyFavorite = user.favorites.some(favorite =>
favorite.equals(bookId));
     return NextResponse.json({ message: 'Book is already in favorites'
}, { status: 200 });
   user.favorites.push(bookId);
   await user.save();
   return NextResponse.json({ message: 'Book added to favorites
successfully' }, { status: 200 });
 status: 500 });
```

## This is api/favorite/route

```
import { NextResponse } from 'next/server';
import dbConnect from '../../../utils/db';
import User from '../../../models/User';
import Book from '../../../models/Book';

// GET: Fetch all favorite books for a user by email
```

```
export async function GET(req) {
   const { searchParams } = new URL(req.url);
   const email = searchParams.get('email');
   if (!email) {
      return NextResponse.json({ message: 'Email is required' }, { status:
400 });
   await dbConnect();
   const user = await User.findOne({ email
}).populate('favorites.bookId');
     return NextResponse.json({ message: 'User not found' }, { status:
404 });
   return NextResponse.json({ favorites: user.favorites }, { status: 200
});
 } catch (error) {
   console.error('Error fetching favorites:', error);
   return NextResponse.json({ message: 'Server error' }, { status: 500
});
export async function POST(req) {
 await dbConnect();
   const { email, bookId } = await req.json(); // Extract email and
bookId
```

```
const book = await Book.findById(bookId);
     return NextResponse.json({ error: 'Book not found' }, { status: 404
   const user = await User.findOne({ email });
    return NextResponse.json({ error: 'User not found' }, { status: 404
});
   const alreadyFavorite = user.favorites.some(favorite =>
favorite.equals(bookId));
     return NextResponse.json({ message: 'Book is already in favorites'
}, { status: 200 });
   user.favorites.push(bookId);
   await user.save();
   return NextResponse.json({ message: 'Book added to favorites
successfully' }, { status: 200 });
 } catch (error) {
   console.error('Failed to add book to favorites:', error);
   return NextResponse.json({ error: 'Failed to add book to favorites' },
 status: 500 });
```

```
import mongoose from "mongoose";
const { Schema } = mongoose;
const userSchema = new Schema(
   email: {
    unique: true,
     required: true,
   password: {
    required: false,
     required: false,
   country: {
    required: false,
   favoriteBook: {
    required: false,
   profilePhoto: {
     required: false,
   downloads: [
```

```
bookId: {
    type: mongoose.Schema.Types.ObjectId,
    ref: 'Book',
    required: true
    }, // Reference to Book model
    downloadedAt: {
        type: Date,
        default: Date.now
     }, // Store download timestamp
    },
    ],
    favorites: [{ type: mongoose.Schema.Types.ObjectId, ref: 'Book' }], //
Array of book IDs
    },
    { timestamps: true }
};
export default mongoose.models.User || mongoose.model("User", userSchema);
```

## This is book model

```
import mongoose from 'mongoose';

const BookSchema = new mongoose.Schema({
   title: { type: String, required: true },
   author: { type: String, required: true },
   description: { type: String, required: true },
   category: { type: String, required: true },
   coverImageUrl: { type: String },
   pdfUrl: { type: String },
   adminEmail: { type: String, required: true }, // To relate the book to
   the admin
      createdAt: { type: Date, default: Date.now },
});

export default mongoose.models.Book || mongoose.model('Book', BookSchema);
```

This is user profile. Which have favorite section

```
import { useSession } from 'next-auth/react';
import { useState, useEffect } from 'react';
import axios from 'axios';
export default function UserProfile() {
 const { data: session } = useSession();
 const [selectedTab, setSelectedTab] = useState('profile');
 const [isEditing, setIsEditing] = useState(false);
 const [profileData, setProfileData] = useState({
   name: '',
   email: '',
   country: '',
   favoriteBook: '',
   profilePhoto: '',
 });
 const [downloads, setDownloads] = useState([]);
 const [favorites, setFavorites] = useState([]);
 const [loading, setLoading] = useState(false);
 const [error, setError] = useState('');
 useEffect(() => {
   if (session) {
     const fetchUserProfile = async () => {
         const response = await axios.get('/api/updateProfile', {
            params: { email: session.user.email },
          });
          setProfileData(response.data.user);
          setError('Failed to load profile. Please try again.');
```

```
useEffect(() => {
     const fetchDownloads = async () => {
          const response = await axios.get('/api/user/downloads', {
           params: { email: session.user.email },
         setDownloads(response.data.downloads);
       } catch (error) {
         console.error('Error fetching downloads:', error);
          setError('Failed to load downloads. Please try again.');
     fetchDownloads();
  }, [selectedTab, session]);
 useEffect(() => {
     const fetchFavorites = async () => {
axios.get(`/api/favorite?email=${session.user.email}`);
         setFavorites(response.data.favorites);
         setError('Failed to load favorites. Please try again.');
      fetchFavorites();
```

```
const handleInputChange = (e) => {
 const { name, value } = e.target;
 setProfileData((prevData) => ({ ...prevData, [name]: value }));
const handlePhotoChange = (e) => {
 const file = e.target.files[0];
 if (file) {
   setProfileData((prevData) => ({ ...prevData, profilePhoto: file }));
const handleSave = async () => {
 setLoading(true);
 setError('');
  const formData = new FormData();
  formData.append('name', profileData.name);
  formData.append('email', profileData.email);
  formData.append('country', profileData.country);
  formData.append('favoriteBook', profileData.favoriteBook);
  if (profileData.profilePhoto instanceof File) {
    formData.append('profilePhoto', profileData.profilePhoto);
   const response = await axios.put('/api/updateProfile', formData, {
      headers: {
   });
    setProfileData((prevData) => ({
```

```
...prevData,
       profilePhoto: response.data.user.profilePhoto,
     setIsEditing(false);
    } catch (error) {
      setError('Failed to update profile. Please try again.');
     setLoading(false);
 const renderContent = () => {
     case 'profile':
         <div className="text-center">
                profileData.profilePhoto instanceof File
                  ? URL.createObjectURL(profileData.profilePhoto)
                  : profileData.profilePhoto || '/default-avatar.png'
              alt="Profile"
              className="h-24 w-24 rounded-full mx-auto border-4
border-gray-200 mb-4"
            {isEditing ? (
              <div className="mt-4">
                  type="text"
                  name="name"
                  onChange={handleInputChange}
                  placeholder="Name"
                  type="text"
```

```
value={profileData.country}
                onChange={handleInputChange}
mt-2"
                type="text"
                name="favoriteBook"
                value={profileData.favoriteBook}
                onChange={handleInputChange}
                placeholder="Favorite Book"
mt-2"
                type="file"
                accept="image/*"
                onChange={handlePhotoChange}
                className="border border-gray-300 rounded-lg p-2 w-full
                Saving...
                <button onClick={handleSave} className="bg-dark-green"</pre>
                  Save
              Email:
{profileData.email}
```

```
Country:
{profileData.country}
             Favorite Book:
{profileData.favoriteBook}
            <button onClick={() => setIsEditing(true)}
className="bg-dark-green text-white px-6 py-2 rounded-lg mt-4">
              Edit
      );
    case 'favorites':
       <div className="p-4">
   <h3 className="text-2xl font-semibold mb-4">Favorite Books</h3>
   {favorites.length > 0 ? (
      {favorites.map((book, index) => (
       src={book.coverImageUrl}
           alt={book.title}
           className="w-16 h-24 object-cover inline-block mr-4"
{book.author}
     ))}
    No favorite books yet.
);
         {downloads.length > 0 ? (
```

```
{downloads.map((download, index) => (
                <span className="font-bold">{download.title}</span> -
Downloaded on{' '}
                   {new Date(download.downloadedAt).toLocaleDateString()}
             No downloads yet.
       );
     <div className="w-1/4 bg-dark-green text-white p-6 rounded-l-lg">
       <div className="text-center mb-6">
             profileData.profilePhoto instanceof File
               ? URL.createObjectURL(profileData.profilePhoto)
               : profileData.profilePhoto || '/default-avatar.png'
           alt="Profile"
           className="h-24 w-24 rounded-full mx-auto border-4
         <h2 className="mt-4 font-semibold">User Profile</h2>
       <nav className="space-y-4">
           onClick={() => setSelectedTab('profile')}
```

```
Profile
            onClick={() => setSelectedTab('favorites')}
            Favorites
            onClick={() => setSelectedTab('downloads')}
            Downloads
      <div className="flex-grow bg-white p-6</pre>
rounded-r-lg">{renderContent()}</div>
 );
```

```
When click heart icon , there is a error
GET /api/auth/session 200 in 4586ms

○ Compiling /api/user/favorite ...
GET /categories/Fiction/66dc7b030ae746ded871987c?_rsc=foluj
200 in 7069ms

✓ Compiled /api/books/[id] in 6.2s (743 modules)
```

```
✓ Compiled in 1ms (790 modules)
```

- ✓ Compiled in 1ms (790 modules)
- ✓ Compiled in 2ms (790 modules)

Already connected to MongoDB.

Already connected to MongoDB.

GET /api/user/favorite?email=hirannikka@gmail.com 200 in 12301ms

Failed to add book to favorites: Error: User validation failed: favorites.0.bookld: Path `bookld` is required., favorites.1.bookld: Path `bookld` is required., favorites.2.bookld: Path `bookld` is required.

at ValidationError.inspect (D:\text

library\library\web\node\_modules\mongoose\lib\error\validation.js:50:26)

at formatValue (node:internal/util/inspect:805:19)

at inspect (node:internal/util/inspect:364:10)

at formatWithOptionsInternal (node:internal/util/inspect:2298:40)

at formatWithOptions (node:internal/util/inspect:2160:10) at console.value

(node:internal/console/constructor:351:14)

at console.warn (node:internal/console/constructor:384:61)

at console.error (D:\text

library\library\web\node\_modules\next\dist\client\components\react-dev-overlay\internal\helpers\ hydration-error-info.js:67:14)

at POST (webpack-internal:///(rsc)/./src/app/api/user/favorite/route.ts:101:17)

at process.processTicksAndRejections (node:internal/process/task\_queues:95:5)

at async D:\text

library\library\web\node\_modules\next\dist\compiled\next-server\app-route.runtime.dev.js:6:5503 8

at async ek.execute (D:\text

library\library\web\node\_modules\next\dist\compiled\next-server\app-route.runtime.dev.js:6:4580 8)

at async ek.handle (D:\text

library\library\web\node\_modules\next\dist\compiled\next-server\app-route.runtime.dev.js:6:5629 2)

at async doRender (D:\text

library\library\web\node\_modules\next\dist\server\base-server.js:1377:42)

at async cacheEntry.responseCache.get.routeKind (D:\text

library\library\web\node modules\next\dist\server\base-server.js:1599:28)

at async DevServer.renderToResponseWithComponentsImpl (D:\text

library\library\web\node\_modules\next\dist\server\base-server.js:1507:28)

at async DevServer.renderPageComponent (D:\text

library\library\web\node\_modules\next\dist\server\base-server.js:1931:24)

at async DevServer.renderToResponseImpl (D:\text

library\library\web\node\_modules\next\dist\server\base-server.js:1969:32)

at async DevServer.pipeImpl (D:\text

library\library\web\node modules\next\dist\server\base-server.js:920:25)

```
at async NextNodeServer.handleCatchallRenderRequest (D:\text
library\library\web\node_modules\next\dist\server\next-server.js:272:17)
  at async DevServer.handleRequestImpl (D:\text
library\library\web\node modules\next\dist\server\base-server.js:816:17) at async D:\text
library\library\web\node modules\next\dist\server\dev\next-dev-server.js:339:20
  at async Span.traceAsyncFn (D:\text
library\library\web\node modules\next\dist\trace\trace.js:154:20)
  at async DevServer.handleRequest (D:\text
library\library\web\node modules\next\dist\server\dev\next-dev-server.js:336:24)
  at async invokeRender (D:\text
library\library\web\node modules\next\dist\server\lib\router-server.js:174:21)
  at async handleRequest (D:\text
library\library\web\node modules\next\dist\server\lib\router-server.js:353:24)
  at async requestHandlerImpl (D:\text
library\library\web\node modules\next\dist\server\lib\router-server.is:377:13)
  at async Server.requestListener (D:\text
library\library\web\node modules\next\dist\server\lib\start-server.js:141:13) {
 errors: {
  'favorites.0.bookld': ValidatorError: Path `bookld` is required.
     at validate (D:\text
library\library\web\node modules\mongoose\lib\schemaType.js:1385:13)
     at SchemaType.doValidate (D:\text
library\library\web\node modules\mongoose\lib\schemaType.js:1369:7)
     at D:\text library\library\web\node modules\mongoose\lib\document.js:3071:18
     at process.processTicksAndRejections (node:internal/process/task_queues:77:11) {
   properties: [Object],
   kind: 'required',
   path: 'bookld',
   value: undefined.
   reason: undefined,
   [Symbol(mongoose#validatorError)]: true
  },
  'favorites.1.bookId': ValidatorError: Path `bookId` is required.
     at validate (D:\text
library\library\web\node modules\mongoose\lib\schemaType.js:1385:13)
     at SchemaType.doValidate (D:\text
library\library\web\node modules\mongoose\lib\schemaType.js:1369:7)
     at D:\text library\library\web\node modules\mongoose\lib\document.js:3071:18
     at process.processTicksAndRejections (node:internal/process/task_queues:77:11) {
   properties: [Object],
   kind: 'required',
   path: 'bookld',
   value: undefined,
   reason: undefined,
```

```
[Symbol(mongoose#validatorError)]: true
  },
  'favorites.2.bookld': ValidatorError: Path `bookld` is required.
     at validate (D:\text
library\library\web\node_modules\mongoose\lib\schemaType.js:1385:13)
     at SchemaType.doValidate (D:\text
library\library\web\node_modules\mongoose\lib\schemaType.js:1369:7)
     at D:\text library\library\web\node_modules\mongoose\lib\document.js:3071:18
     at process.processTicksAndRejections (node:internal/process/task_queues:77:11) {
   properties: [Object],
   kind: 'required',
   path: 'bookld',
   value: undefined,
   reason: undefined,
   [Symbol(mongoose#validatorError)]: true
  }
},
 _message: 'User validation failed'
POST /api/user/favorite 500 in 12804ms
```

Do my task. To do that update codes. If codes want update