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# REST – PROJECT

The MovieNotes app allows users to create ready-made templates for notes to write short movie reviews and thus create their own personal catalog.

Whole application written on JavaScript via Node.JS and React using Visual Studio and PostgreSQL database.

## Environment:

- ***Frontend (React.js)***
- React — a library for building user interfaces.
- React Router — for page routing.
- Axios — for interacting with the backend API.


- ***Backend (Node.js + Express)***
- Node.js — JavaScript runtime.
- Express.js — a framework for creating REST APIs.
- Sequelize ORM — for working with the database (PostgreSQL or SQLite).
- JWT (jsonwebtoken) — for authorization and protecting routes.
- bcrypt — for password hashing.
- express-validator — for input data validation.
- Multer / file handling — for uploading images.


### *Structure:*
Models + View + Controllers


(I also used application "Postman" for checking API routes and database connectivity. For presentation I removed node modules, public folder, and JSON packages from the source code and left only the application code itself)

# Functionality:

At the Welcome page user can register or log in (if account already exists)
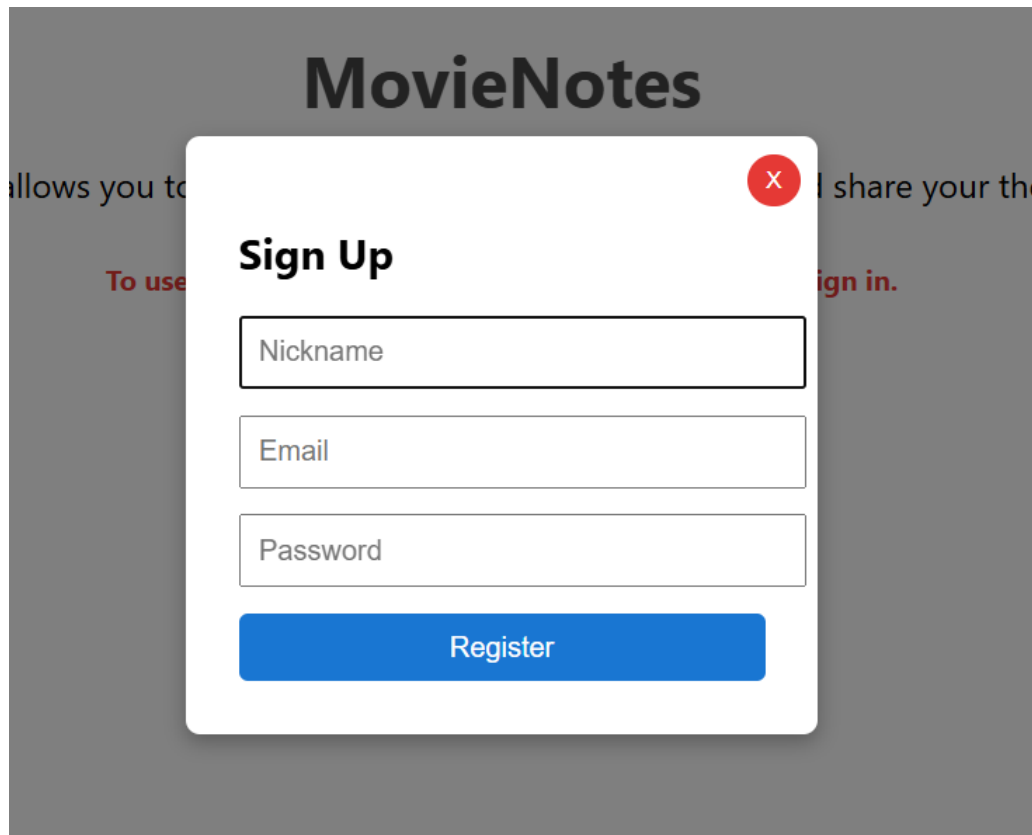
## Welcome to

# MovieNotes

This app allows you to save personal movie notes, rate films, and share your thoughts.

**To use the functionality of the application, you must sign in.**

Sign In    Sign Up

Click on "Sign Up" opens registration modal window, where user can enter his email, nickname and the password.



Validation: Data cannot be submitted if fields are missed or not valid

# Welcome to

app allows you to ~~~ share your thoug

**To use** ~~~ **ign in.**

## Sign Up

Nickname must be at least 2 characters long.

A

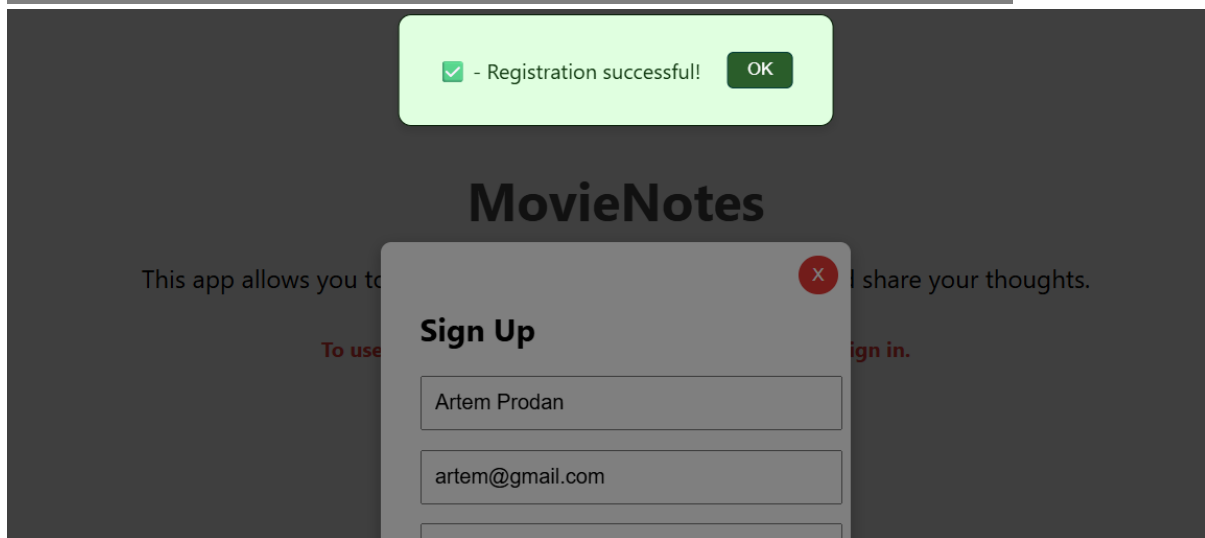Please enter a valid email address.
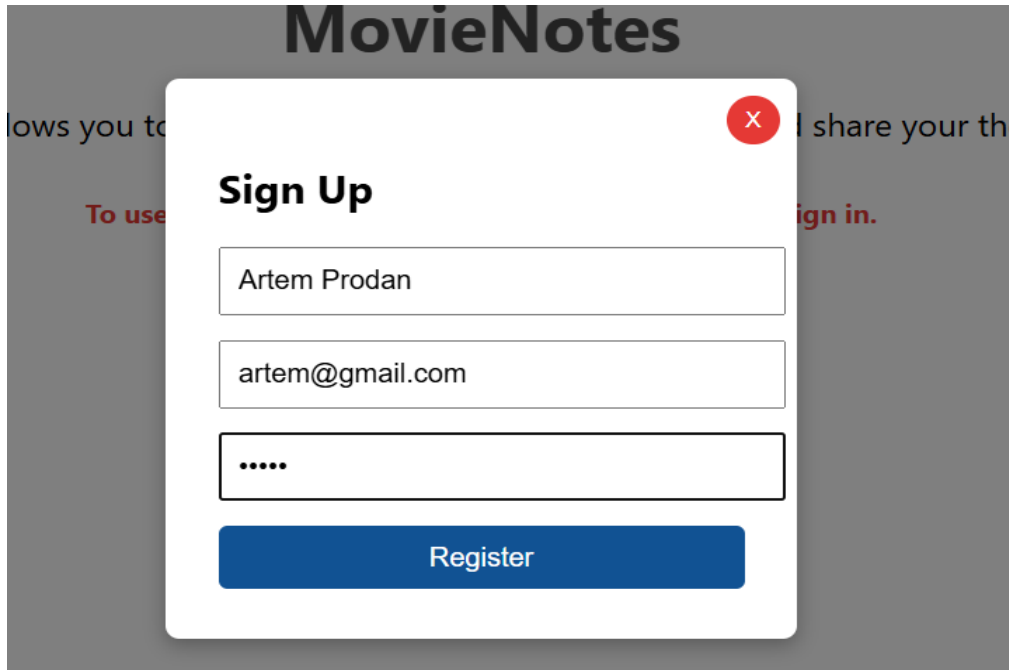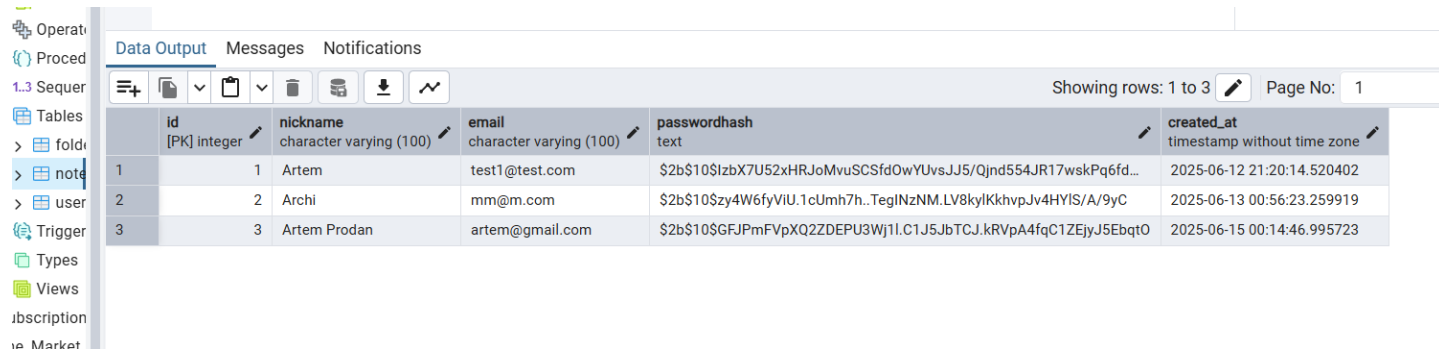
artem.email

This field is required.

Password

**Register**

After successful submission user will get a modal notification
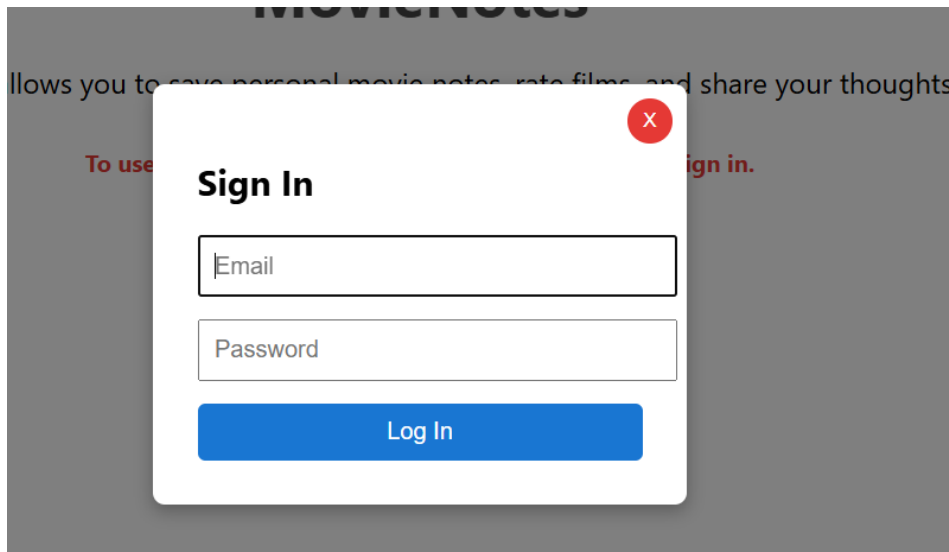


All data is stored in the database. The password will be encrypted and hashed.

| id [PK] integer | nickname character varying (100) | email character varying (100) | passwordhash text | created_at timestamp without time zone |
| --- | --- | --- | --- | --- |
| 1 | Artem | test1@test.com | $2b$10$IzbX7U52xHRJoMvuSCSfdOwYUvsJJ5/Qjnd554JR17wskPq6fd... | 2025-06-12 21:20:14.520402 |
| 2 | Archi | mm@m.com | $2b$10$zy4W6fyViU.1cUmh7h..TegINzNM.LV8kylKkhvpJv4HYlS/A/9yC | 2025-06-13 00:56:23.259919 |
| 3 | Artem Prodan | artem@gmail.com | $2b$10$GFJPmFVpXQ2ZDEPU3Wj1l.C1J5JbTCJ.kRVpA4fqC1ZEjyJ5EbqtO | 2025-06-15 00:14:46.995723 |
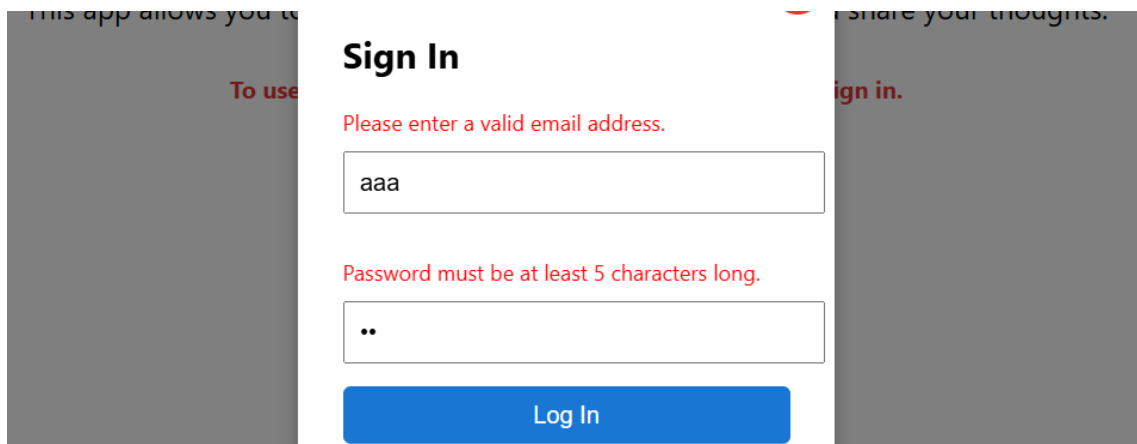
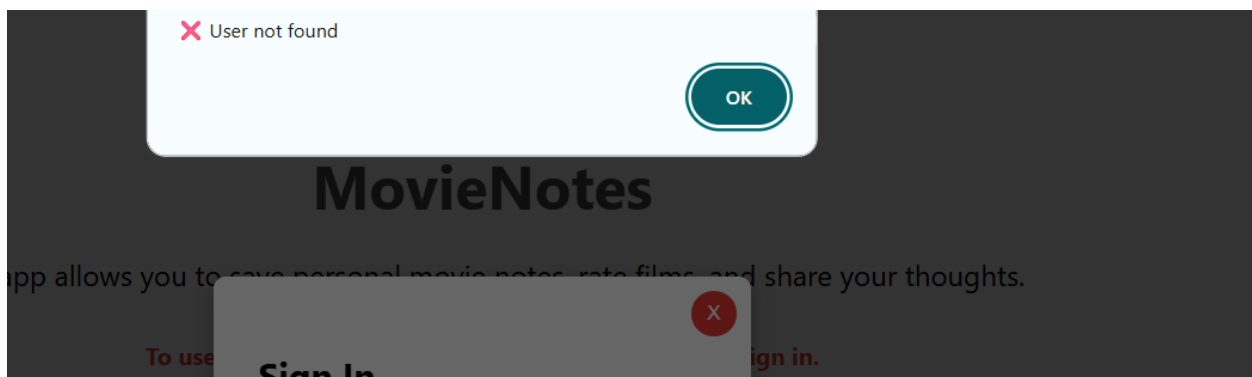Click on "Sign In" opens Login modal window, where user can enter his email and password.



Validation during login similar to Registration process.



If there is no such user in database - login failed. Only valid data is allowed.

This app allows you to save personal movie notes, rate films, and share your thoughts.

To use ... ign in.

## Sign In

artem@gmail.com

•••••

**Log In**

X
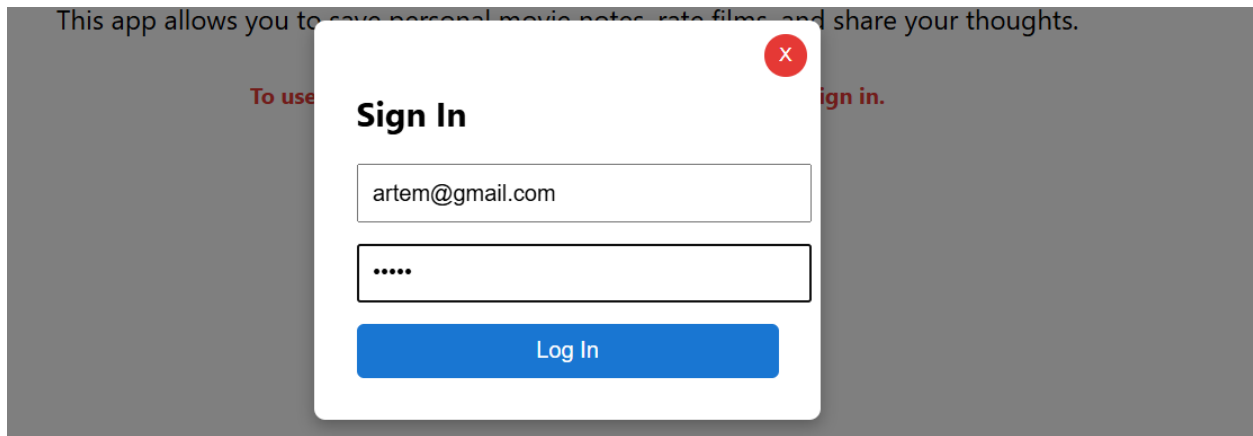
If all the inputs are valid, user will get to the Main Page "Catalog", where most of the actions take place.

**Artem Prodan**
My profile

Catalog    My Picks    Watchlist

0 notes
created

0 folders
created

# Catalog
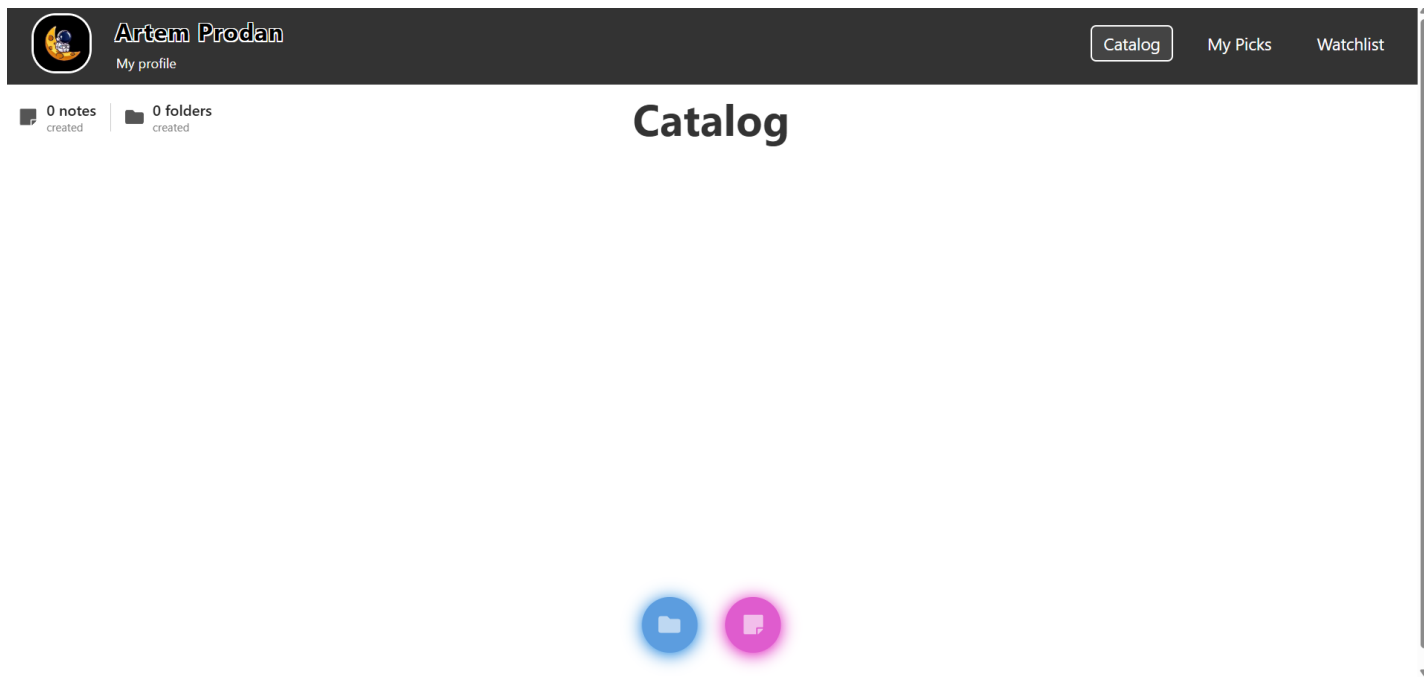
Pink Button creates new notes. You can name it and write the description in the creation modal window
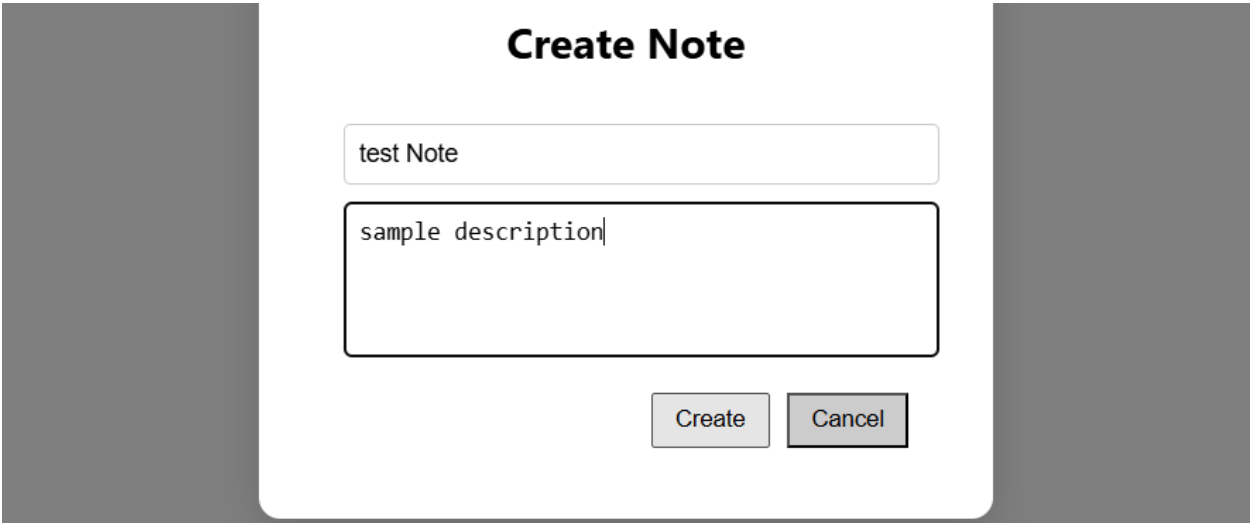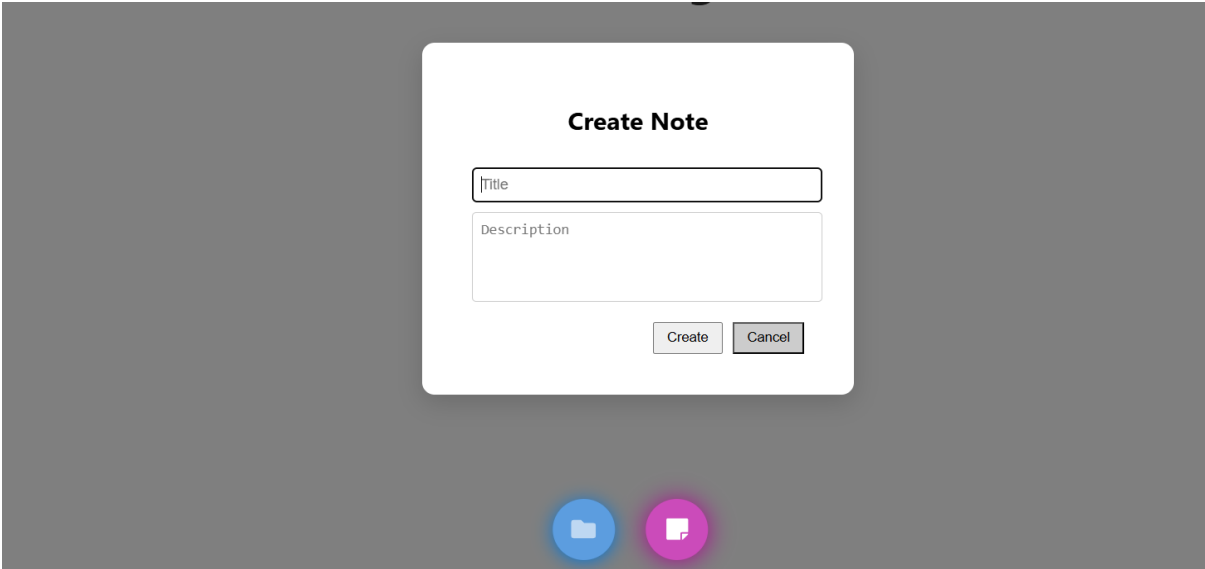




Information about created note will appear inside of "notes" table in database.

| id [PK] integer | title text | imageurl text | genre text | director text | releaseyear text | giverating double precision | comment text | user_id integer | created_at timestamp without time zone | isfavorite boolean | iswatchlisted boolean | folder_id integer |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | test Note | [null] | [null] | [null] | [null] | [null] | sample description | 3 | 2025-06-15 00:33:56.954786 | false | false | [null] |

After creation, note card will appear on the catalog page.

**0 folders**
created

# Catalog



If you click right on the note you will get to expanded note screen. Technically, you can only view information here. There are also buttons for editing a note and returning to the catalog page.
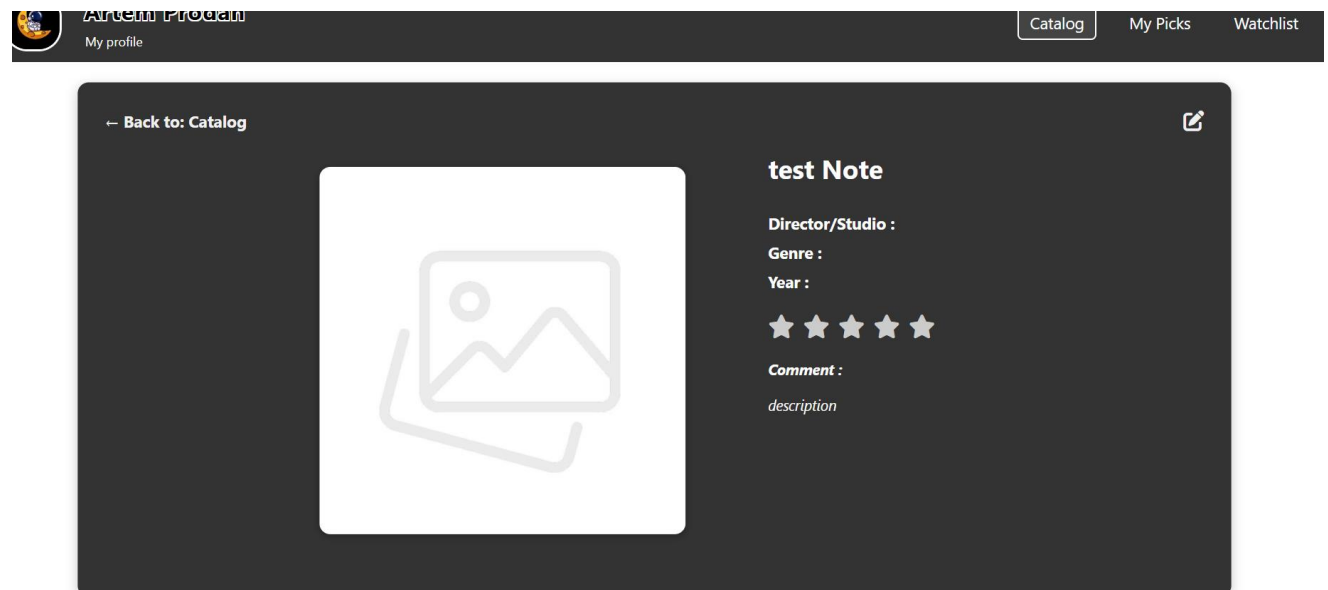


If you click on update icon, you will get to update window, where user can put any data he wants

user can edit the title, genre, Director/Studio, release Year, write personal comment and even leave the rating from 0.5 up to 5 (or remove the rating if it exists).



User also able to upload any image from his device

Title :

The Good, The Bad and The Ugly



Catalog     My Picks     Watchlist

Title :

The Good, The Bad and The Ugly

Genre :

spagetti western

Director/Studio :

Sergio Leone

Year :

After clicking "Save" , all entered information will display at the opened note screen.

**Title :**

The Good, The Bad and The Ugly

**Genre :**

spagetti western

**Director/Studio :**

Sergio Leone

**Year :**

1966

**Rate the title :**

⭐⭐⭐⭐⭐　　remove rating

**Comment :**

A gritty, iconic Western where three gunslingers compete to find buried gold amid the chaos of the Civil War—filled with tension, style, and unforgettable music.

Save

---

**Artem Prodan**
My profile

Catalog　　My Picks　　Watchlist

← Back to: Catalog ✏

**The Good, The Bad and The Ugly**

**Director/Studio :** Sergio Leone
**Genre :** spagetti western
**Year :** 1966

⭐⭐⭐⭐⭐

**Comment :**

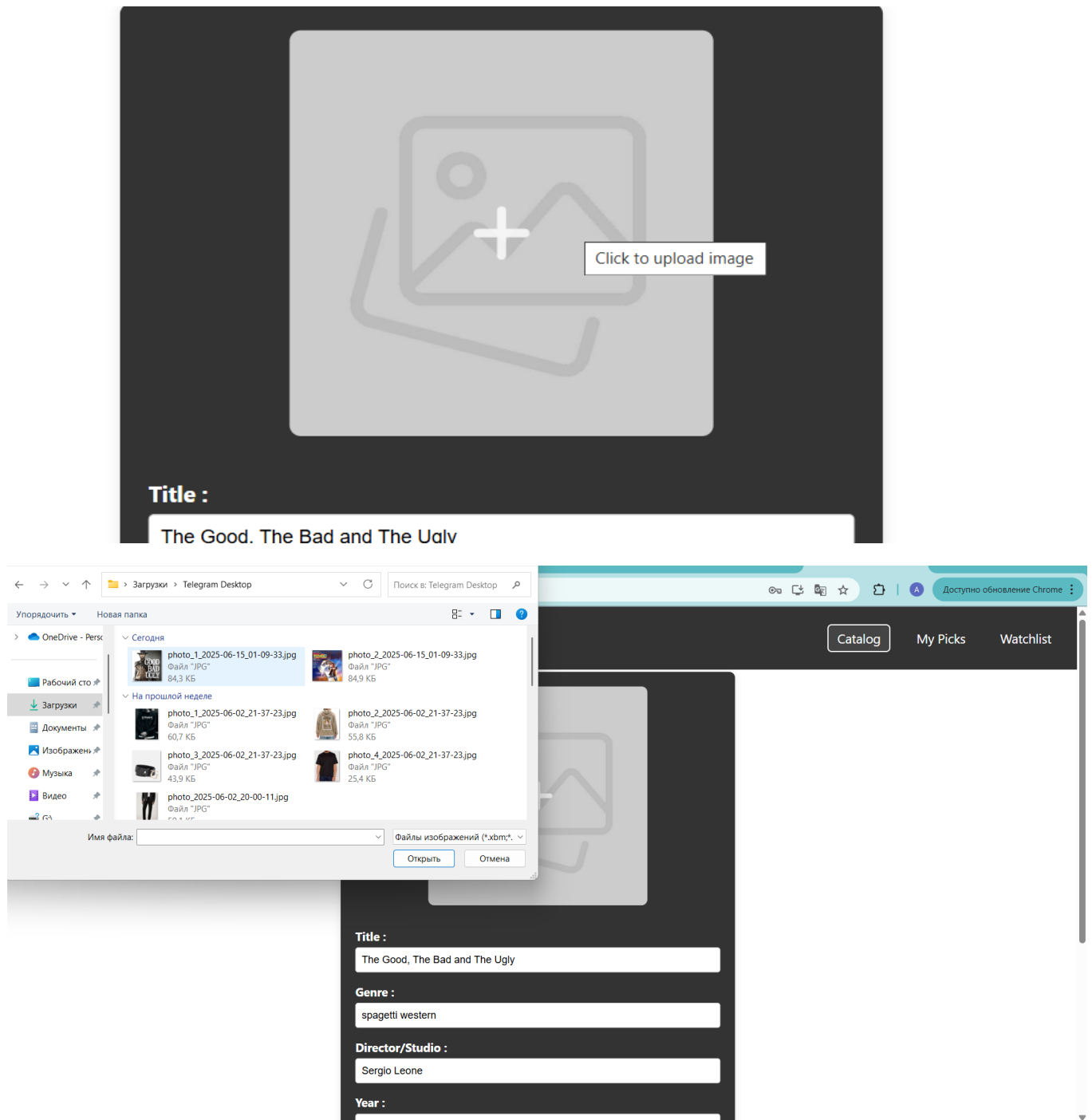A gritty, iconic Western where three gunslingers compete to find buried gold amid the chaos of the Civil War—filled with tension, style, and unforgettable music.

Database will alter as well:

| | id [PK] inte text | title text | imageurl text | genre text | director text | releaseyear text | giverating double preci: | comment text | user_id integer | created_at timestamp without time zone | isfavorite boolean | isw boo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 54 | test Note | [null] | | | | 0 | | 3 | 2025-06-15 00:33:56.954786 | false | fal: |
| 2 | 55 | The Good, The Bad and The Ugly | [null] | spagetti western | Sergio Leone | 1966 | 4 | A gritty, iconic Western where thre… | 3 | 2025-06-15 01:18:23.189097 | false | fal: |

Changes are also visible on the main page

My profile

**Catalog**

📁 0 folders
created

| | |
|---|---|
| **The Good, The Bad and ...** | **test Note** |
| A gritty, iconic Western wh... | |
| ⭐⭐⭐⭐☆ ♥ ⊞ 🗑 | ☆☆☆☆☆ ♥ ⊞ 🗑 |
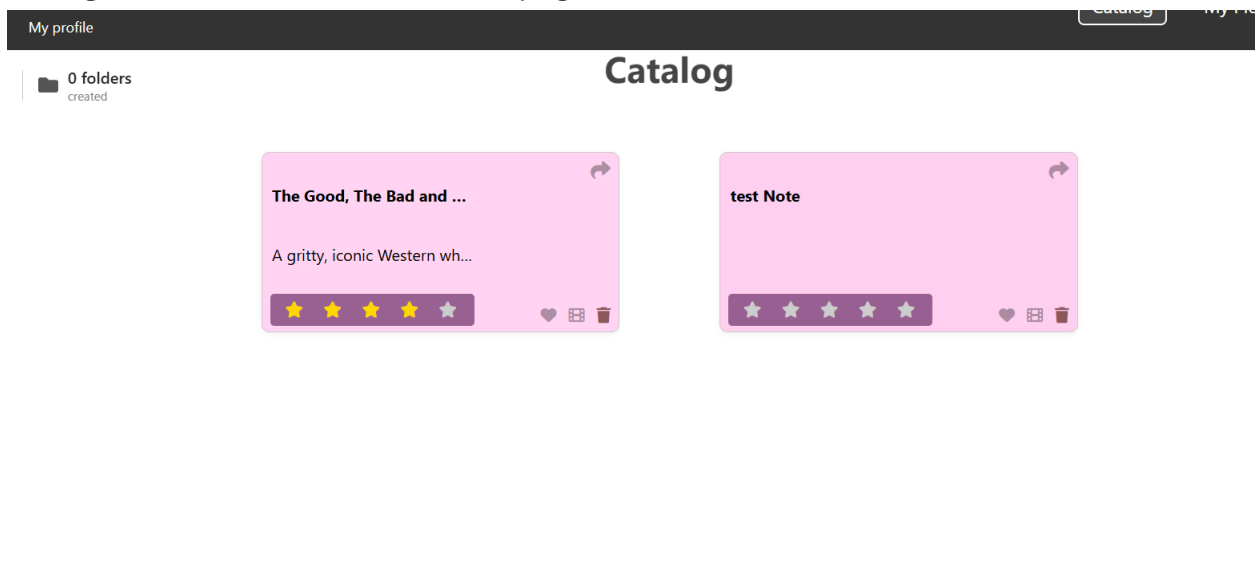
you can delete the note. For this user have to click on the trash bin icon and confirm the action.

Подтвердите действие на localhost:3000

Delete note "test Note"?

OK    Отмена

Catalog

**test Note**

☆ ☆ ☆ ☆ ☆          ♥ ⊞ 🗑

Delete note
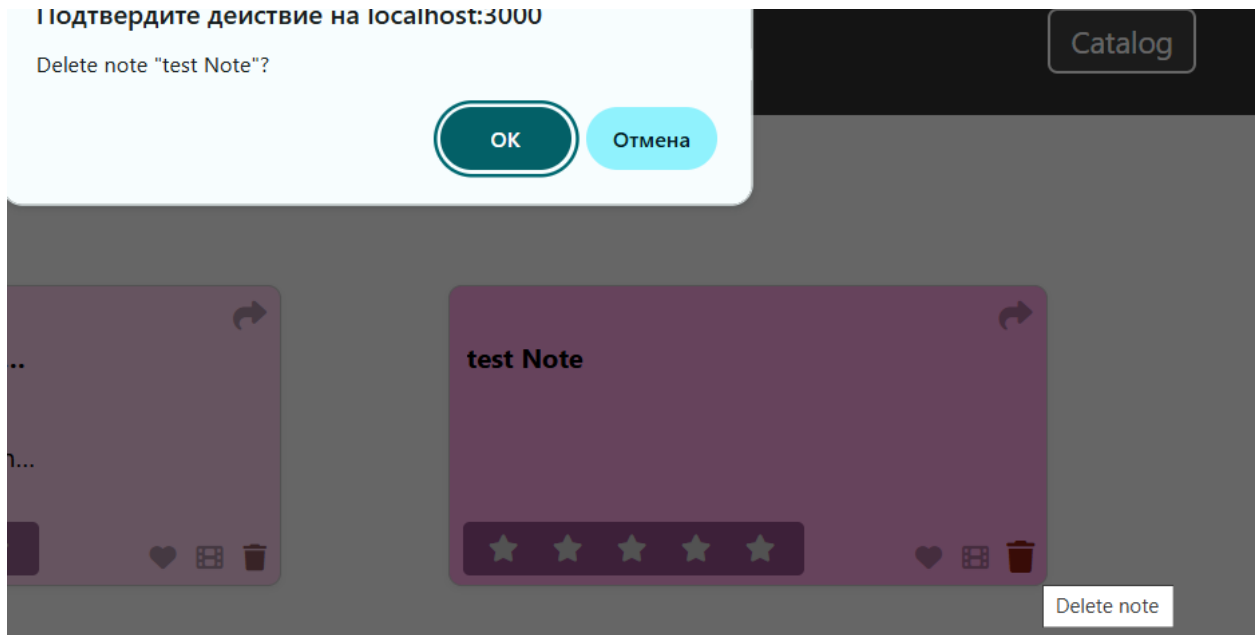
After this, deleted note will disappear from both main page and the server



(Another example)



Each note also has a "heart" and "video tape" icon as well. Each of the icons duplicates the

note in separate lists on other pages. For example, when you click on the heart, the note goes to the "MyPicks" page, where the user can place their favorite titles, or when you click on the video tape, the note appears on the "Watchlist" page, where you can save the Titles you plan to watch in the future.

## Catalog

**The Good, The Bad and ...**

A gritty, iconic Western wh...

⭐⭐⭐⭐☆     ♡ 🎞 🗑

Add to My Picks

**Back to the Future**

A thrilling time-travel adve...

⭐⭐⭐⭐⭐     ❤ 🎞 🗑

**demo**

⭐⭐⭐☆☆     ♡ 🎞 🗑

**The Good, The Bad and ...**

A gritty, iconic Western wh...

⭐⭐⭐⭐☆     ❤ 🎞 🗑

Add to Watchlist

**Back to the Future**

A thrilling time-travel adve...

⭐⭐⭐⭐⭐     ❤ 🎞 🗑

**demo**

⭐⭐⭐☆☆     ♡ 🎞 🗑
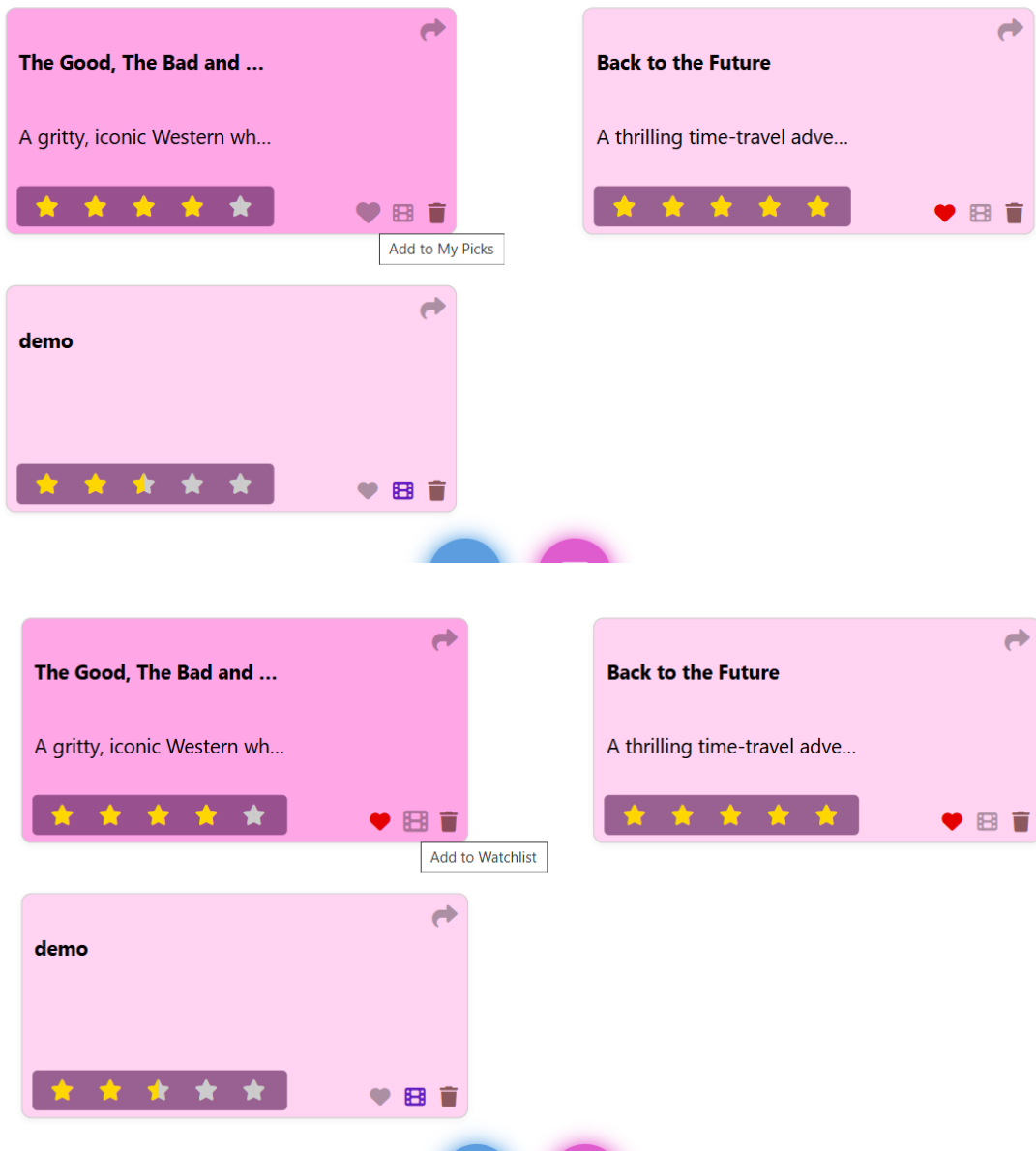
You can switch the pages and observe its content, using a navigation bar at the top of the webpage.

# Watchlist

| demo | The Good, The Bad and ... |
|------|--------------------------|
| | A gritty, iconic Western wh... |
| ★★★★★ | ★★★★★ |
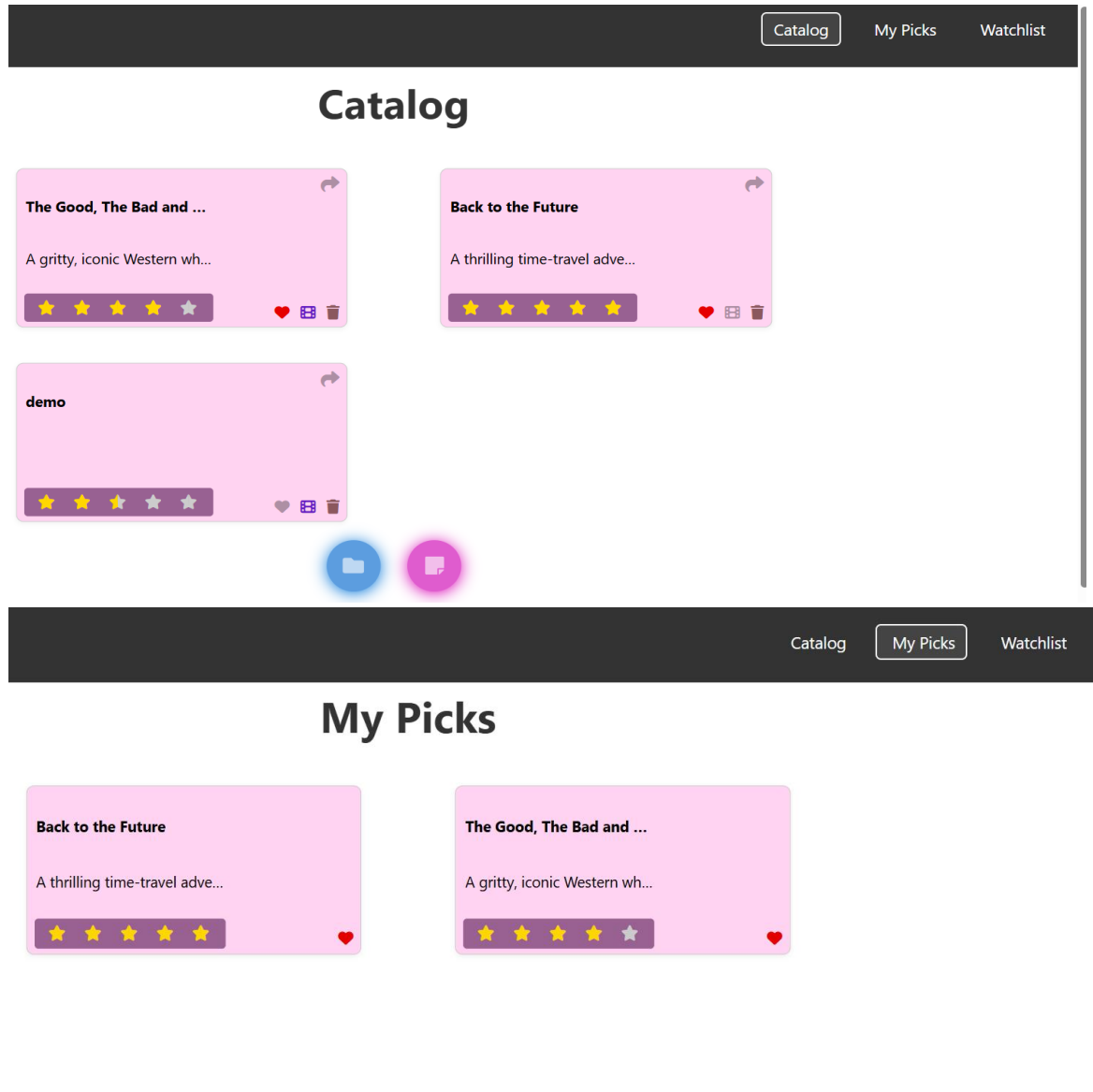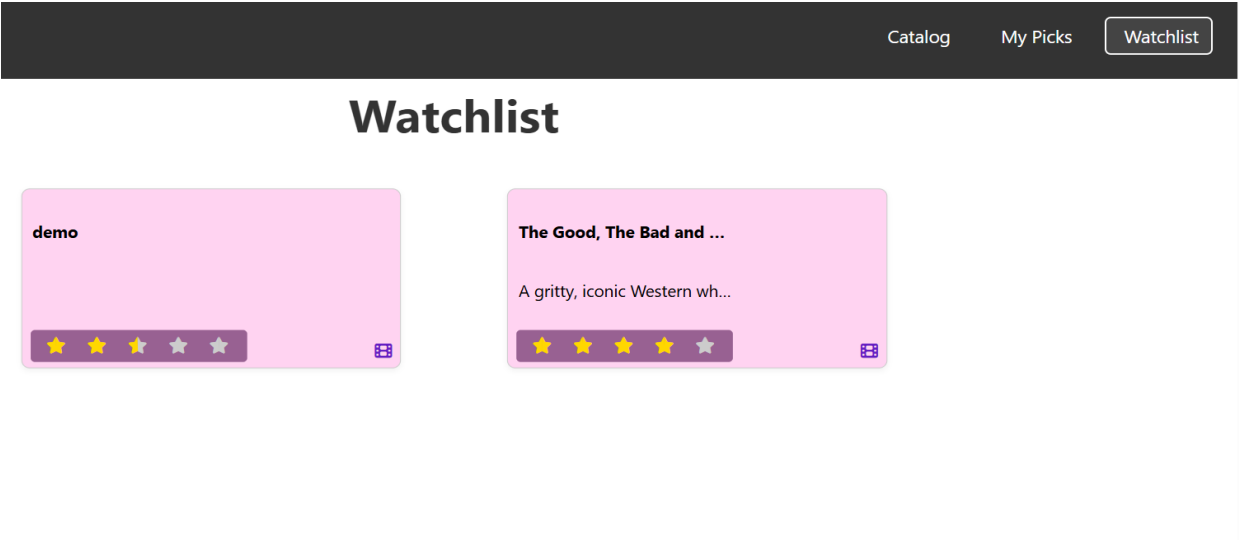
icon re-pressing will remove note from specific list and deactivate corresponsive icon of the note inside of the main catalog.

## atchlist

**The Good, The Bad and ...**

A gritty, iconic Western wh...

★★★★★

Remove from Watchlist

# Watchlist

| demo |
|------|
| ★★★★★ |

# Catalog

**The Good, The Bad and ...**

A gritty, iconic Western wh...

★ ★ ★ ★ ★

**Back to the Future**

A thrilling time-trav

★ ★ ★ ★

**demo**
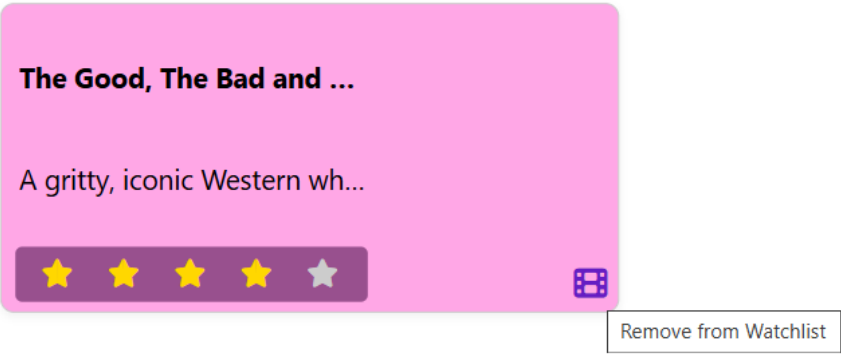
In addition to notes, the user can also create folders by clicking on the blue button below

**The Good, The Bad and ...**

A gritty, iconic Western wh...

★ ★ ★ ★ ★

adve...

**Create Folder**

Folder title

Create     Cancel

**demo**

★ ★ ★ ★ ★

**Create Folder**

Sample folder123

Create    Cancel

# Catalog

**The Good, The Bad and ...**

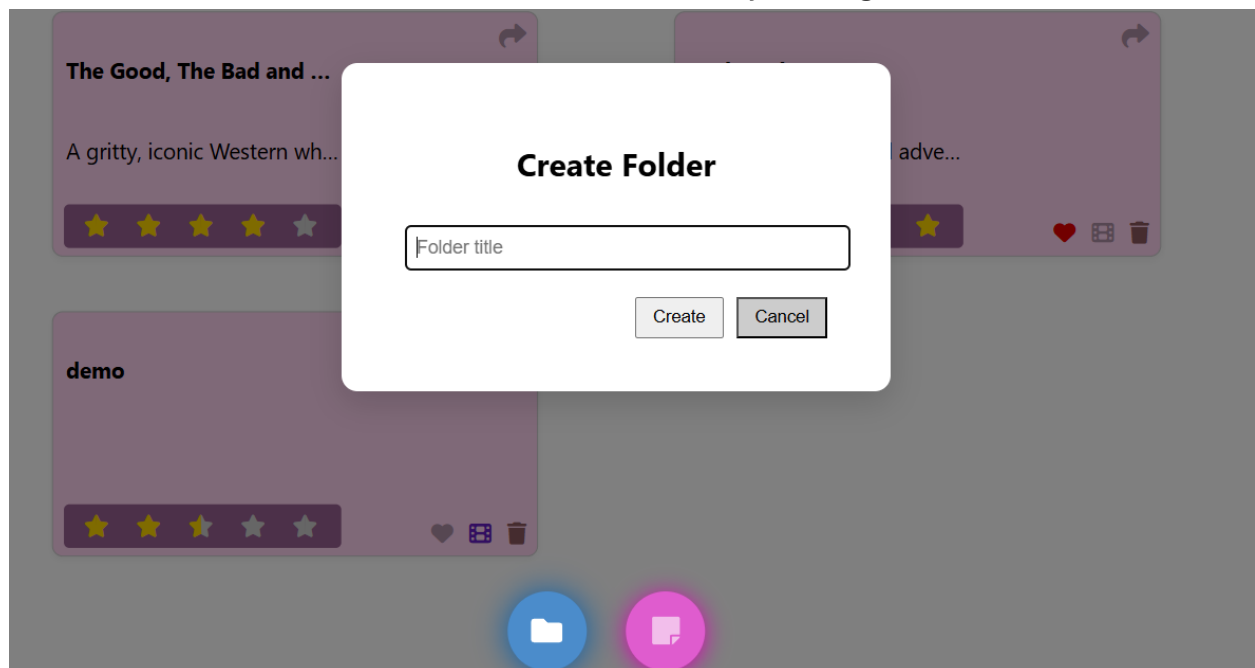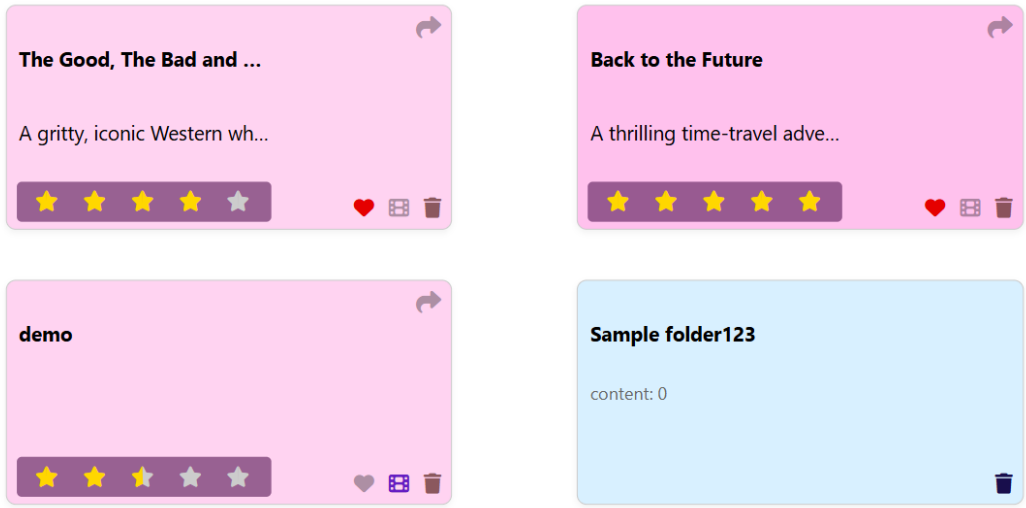A gritty, iconic Western wh...

★ ★ ★ ★ ★    ♥ ⊞ 🗑

**Back to the Future**

A thrilling time-travel adve...

★ ★ ★ ★ ★    ♥ ⊞ 🗑

**demo**

★ ★ ★ ★ ★    ♥ ⊞ 🗑

**Sample folder123**

content: 0

🗑
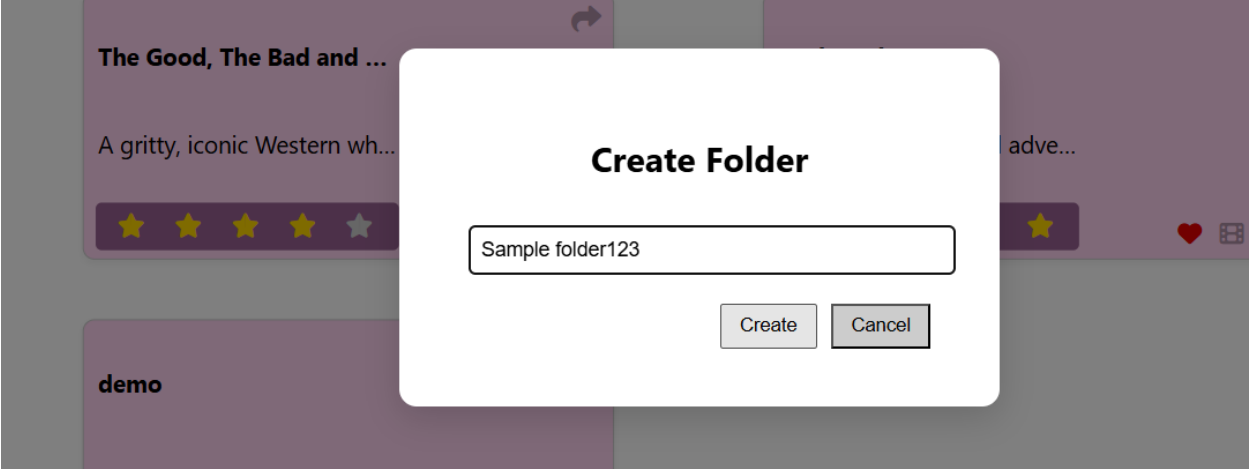
| | id<br>[PK] integer | name<br>character varying (100) | user_id<br>integer | created_at<br>timestamp without time zone |
|---|---|---|---|---|
| 1 | 41 | Sample folder123 | 3 | 2025-06-15 02:23:02.661046 |

Sequer
Tables
⊞ fold
⊞ note
⊞ user
Trigger

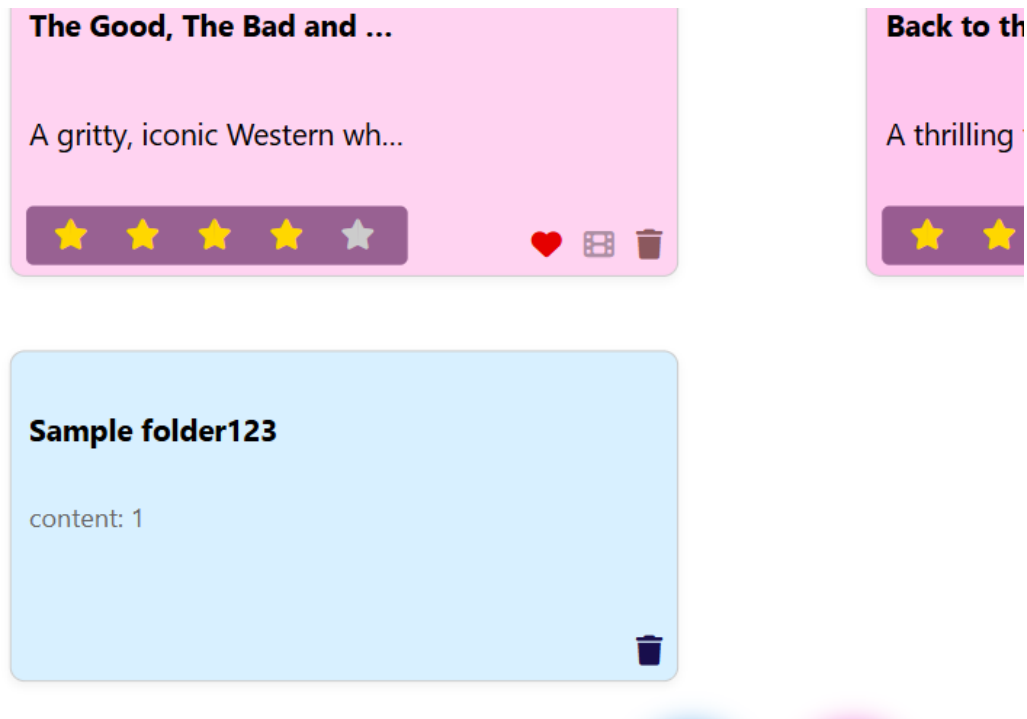Each created folder counts its content, and each folder can be deleted (The folder is deleted along with all its contents, before deletion there will be a warning about this.)
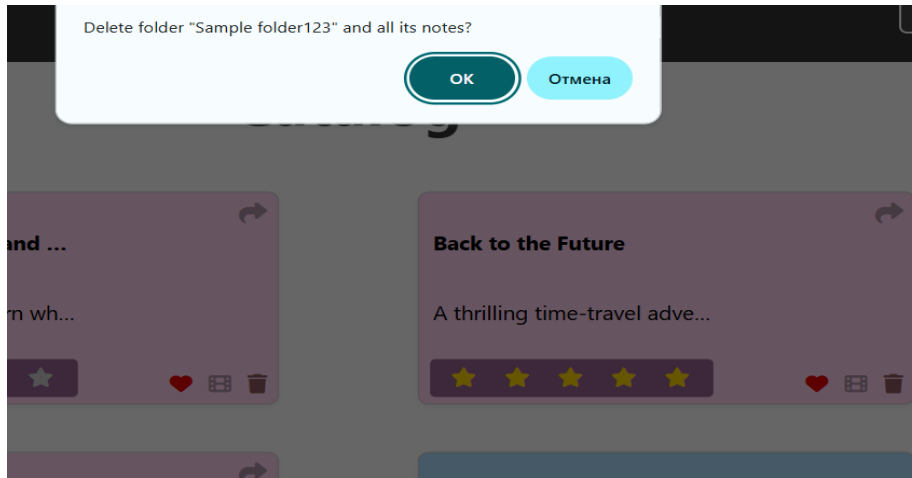


Notes can be moved using the "Move to" menu. A note can be moved from a catalog to a folder, from a folder to a folder, and from a folder back to a catalog. (If no folders have been created, there will be nowhere to move a note from a catalog)

**Move to:**

No folders to
move

demo

The Good, The Bad and ...

A gritty, iconic Western wh...

Back to the Future

A thrilling time-travel adve...

**Move to:**

Sample folder123

demo

...ple folder123
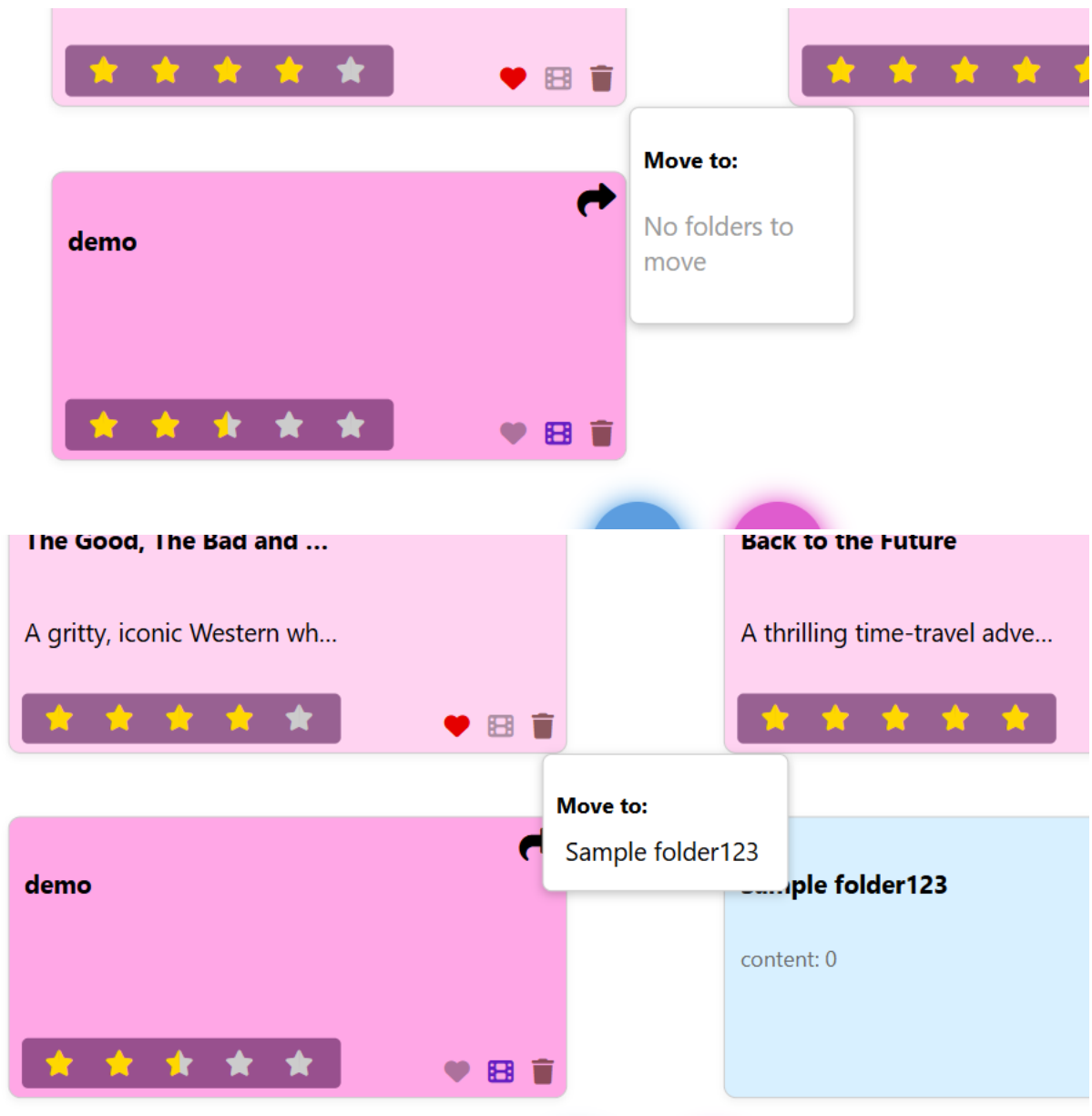
content: 0

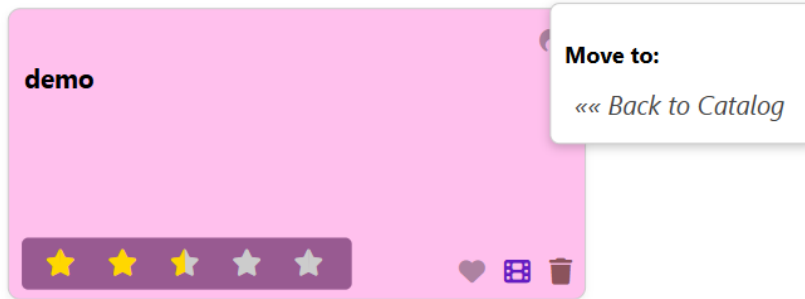folder's content count will change after moving the note inside.

Folder's content: inside the folder you can create only notes. You can see the folder name and there's also an option to go back to catalog.
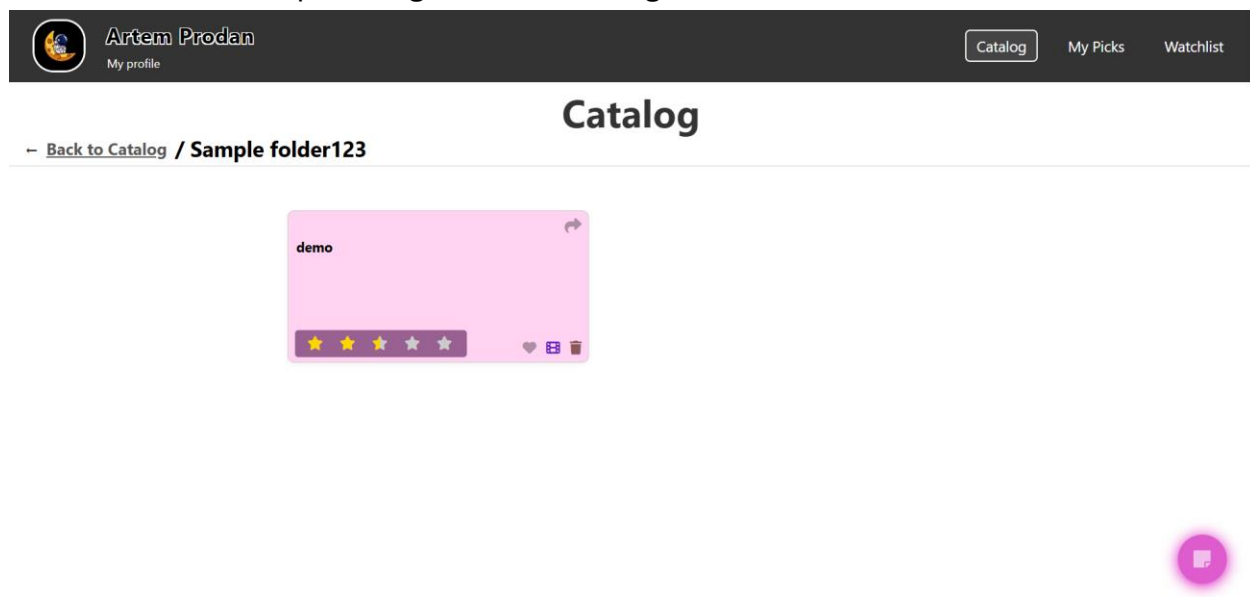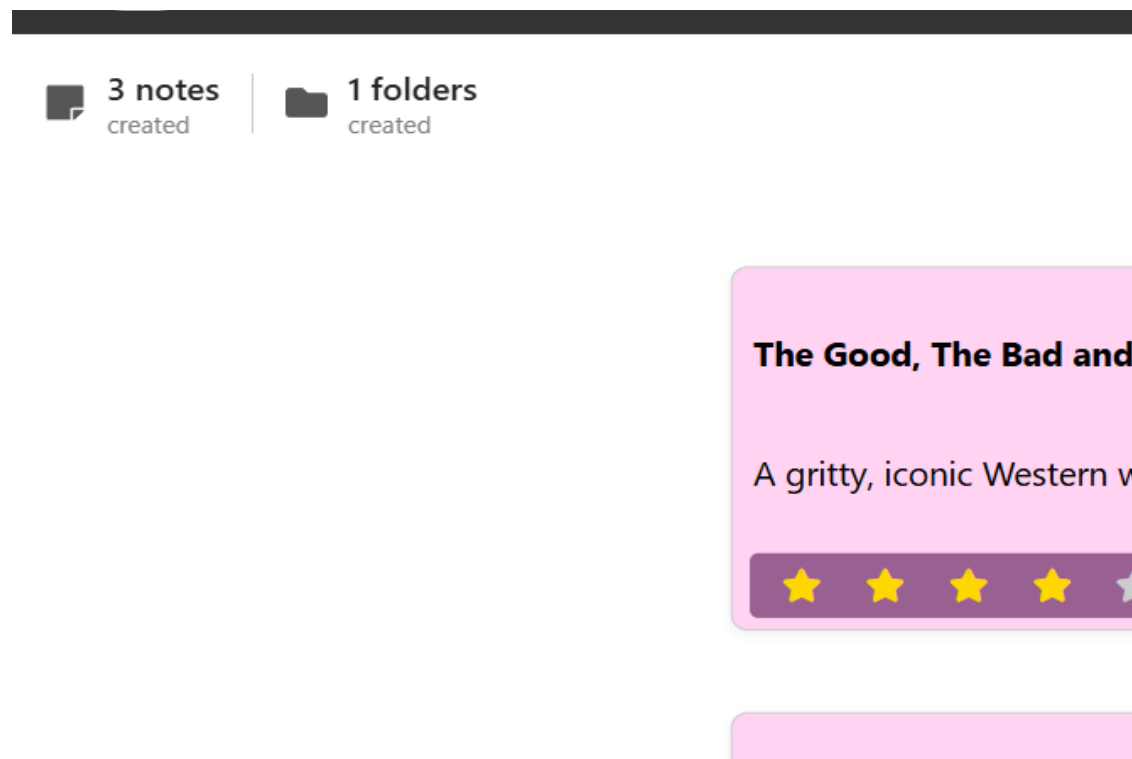


Also, as I said before, you can move notes back to the catalog from the folder.
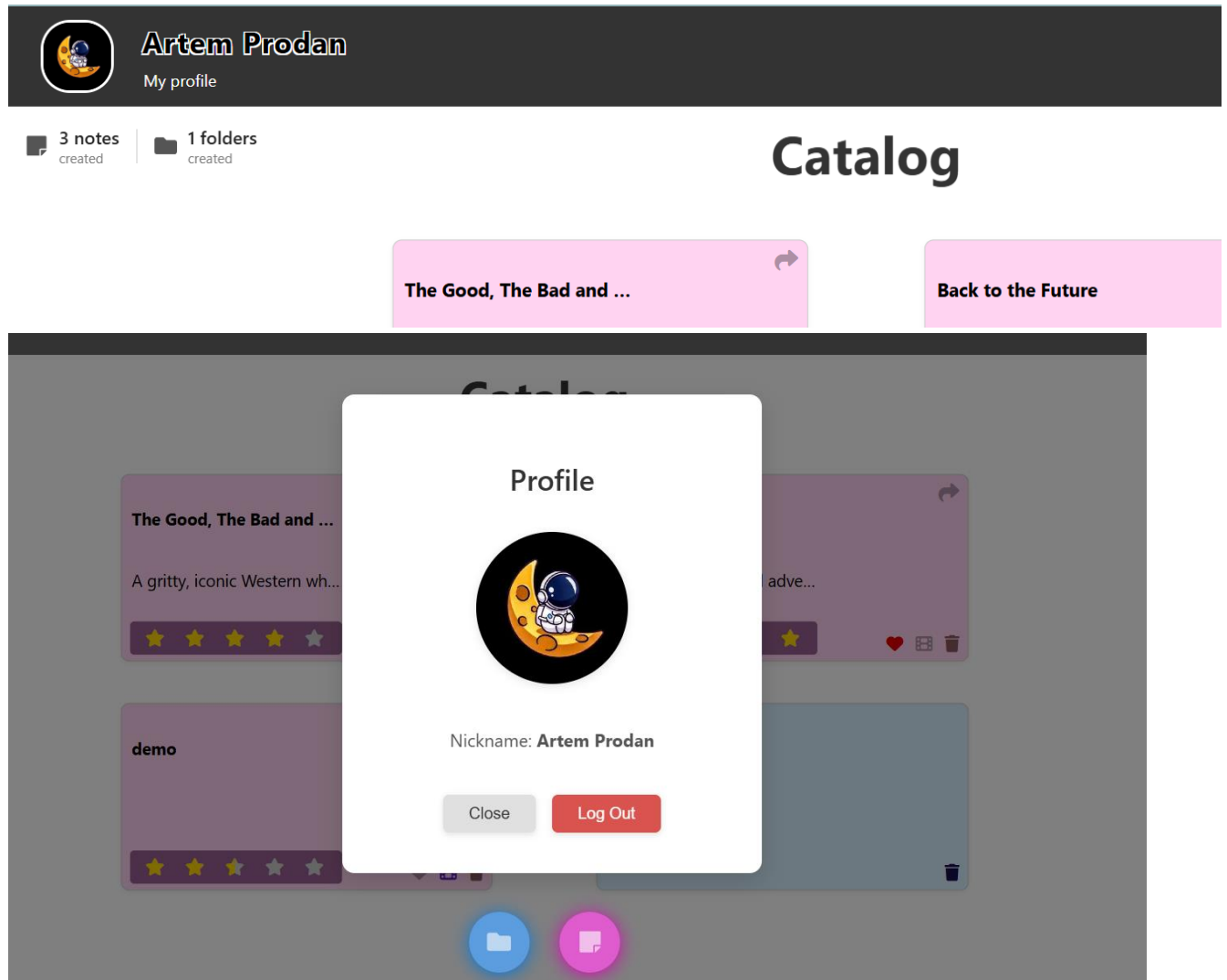
demo

Move to:

«« *Back to Catalog*

On the left side of the screen, you can see an info-panel that displays all of the current existing elements.

**3 notes**
created

**1 folders**
created

**The Good, The Bad and**

A gritty, iconic Western w

There is also a "My Profile" button under the nickname that enables a modal window, containing some user data and the red button for log out



after clicking on "Log out" the JWT token of the current session is deactivated and the user will be redirected to the welcome page

# Welcome to

# MovieNotes

This app allows you to save personal movie notes, rate films, and share your thoughts.

**To use the functionality of the application, you must sign in.**

Sign In    Sign Up