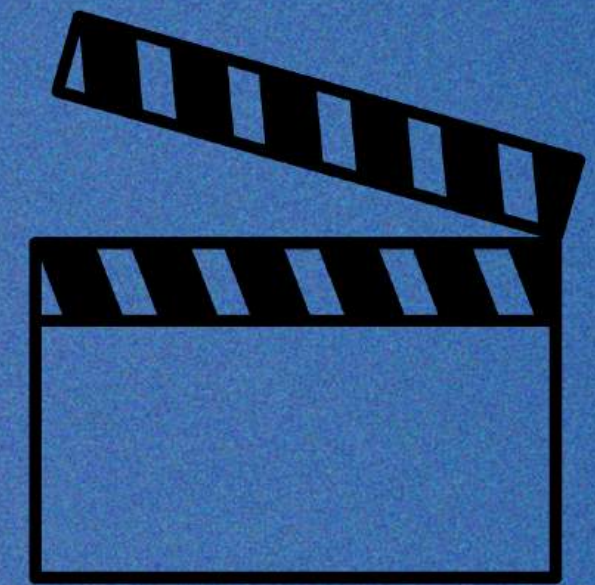


Movie Watchlist Manager



KHUSHI

A PYTHON PROJECT FOR MANAGING MOVIE
RECOMMENDATIONS

Project Objective



Add, retrieve, and remove movie recommendations by platform and genre.



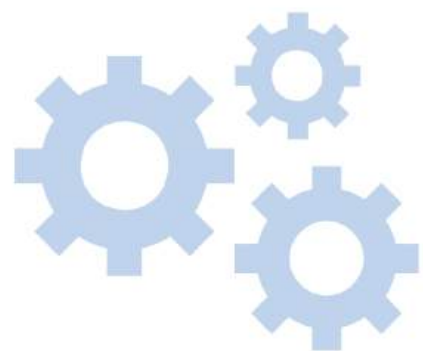
Add multiple OTT platforms with trending genres.



Automatically save and load recommendations using a file-based system.

To develop a Python-based application to manage OTT platform recommendations.

Key Features



Key Functionalities



STEP 1

Add Platforms



STEP 2

Add
Recommendations



STEP 3

Remove
Recommendations



STEP 4

Retrieve
Recommendations



STEP 5

Persistent Storage

PLAN

DO

CHECK

ACT

Key Obstacles and Overcoming Strategies



Challenge	Solution
Handling case sensitivity in platform/genre names.	Normalize input by converting all names to lowercase
Ensuring data persistence across sessions.	Implement robust file handling in the RecommendationManager .
Managing file formatting and extra characters.	Strip unnecessary characters during save/load operations

Application Workflow

01

`OTTPlatform`

Handles data for a single OTT platform (e.g., genres and recommendations).

02

`RecommendationManager`

Manages multiple platforms and provides central operations.

03

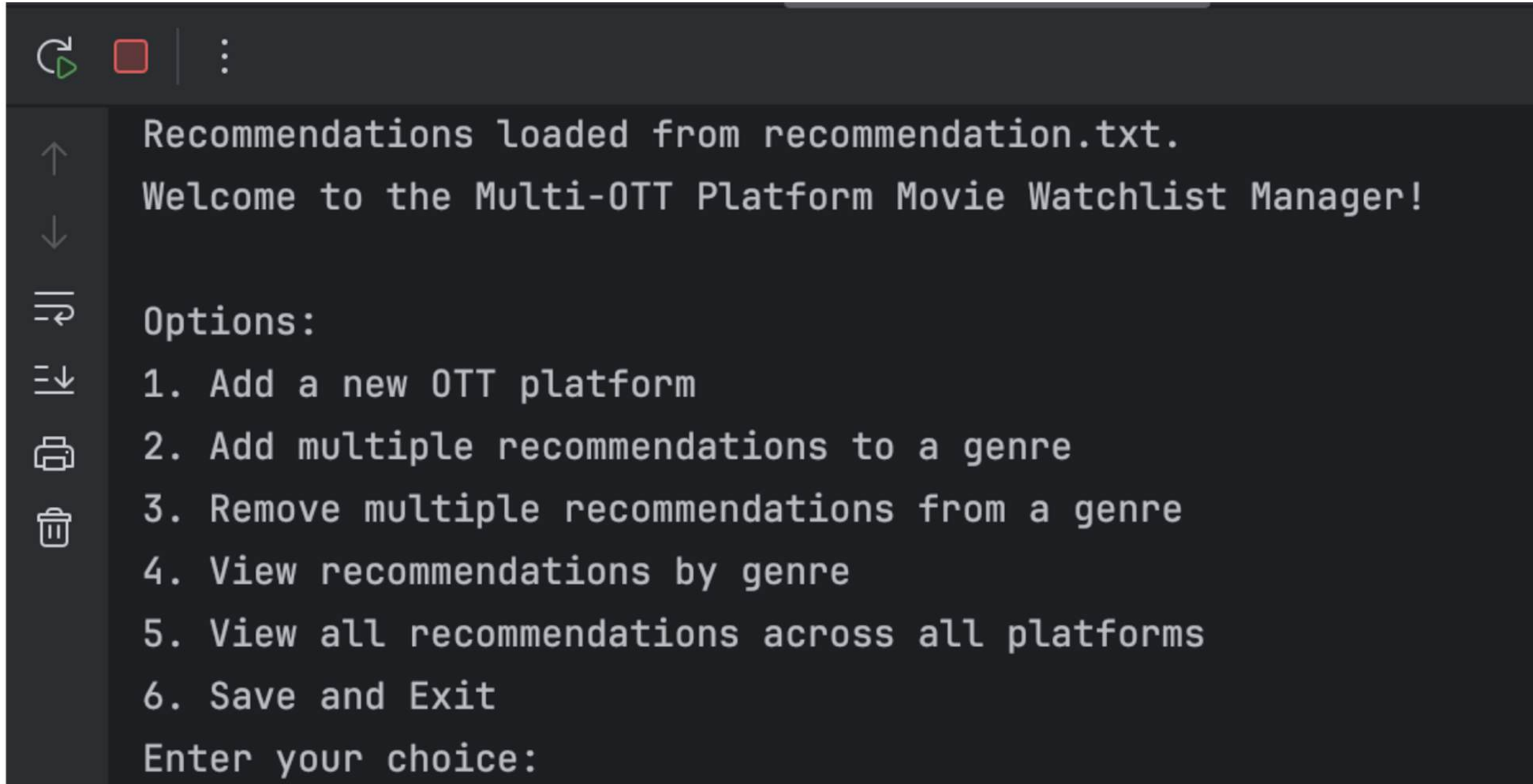
`main.py`

Integrates the classes and provides a user-friendly interface.

`main.py` → `RecommendationManager` → `OTTPlatform`.



User Interaction

A terminal window with a dark background. The title bar shows a green play button icon, a red square icon, and a vertical ellipsis icon. The terminal text is as follows:

```
Recommendations loaded from recommendation.txt.  
Welcome to the Multi-OTT Platform Movie Watchlist Manager!  
  
Options:  
1. Add a new OTT platform  
2. Add multiple recommendations to a genre  
3. Remove multiple recommendations from a genre  
4. View recommendations by genre  
5. View all recommendations across all platforms  
6. Save and Exit  
Enter your choice:
```

On the left side of the terminal, there is a vertical toolbar with icons for: up arrow, down arrow, undo, redo, print, and delete.

The numeric options simplify interaction, requiring minimal effort to execute actions.

UNIT TESTING

- Identify bugs early in development.
- Ensure each part of the codebase works independently.
- Improve code reliability and maintainability.

Key Features Tested:

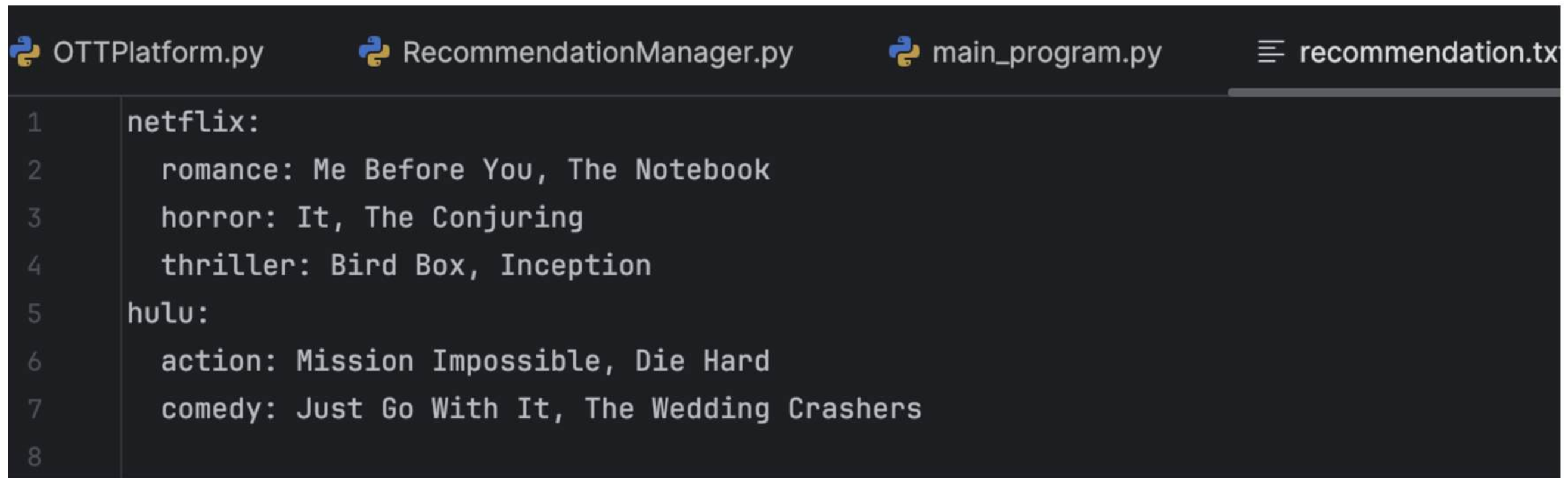
- Adding Platforms
- Adding and Removing Recommendations
- Viewing Recommendations Across Platforms

```
# --- TEST 1: Add Platforms ---
manager.add_platform("Netflix", ["Action", "Comedy", "Romance", "Thriller", "Horror"], verbose=False)
manager.add_platform("Amazon Prime", ["Action", "Comedy", "Romance", "Thriller", "Horror"], verbose=False)
manager.add_platform("Hulu", ["Action", "Comedy", "Romance", "Thriller", "Horror"], verbose=False)
manager.add_platform("Peacock", ["Action", "Comedy", "Romance", "Thriller", "Horror"], verbose=False)

# Verify platforms are added
assert "netflix" in manager.platforms, "Platform 'Netflix' not added!"
assert "amazon prime" in manager.platforms, "Platform 'Amazon Prime' not added!"
assert "hulu" in manager.platforms, "Platform 'Hulu' not added!"
assert "peacock" in manager.platforms, "Platform 'Peacock' not added!"
```


RESULTS

- Centralized management of movie recommendations.
- Persistent storage ensures no data loss.
- Efficient user interaction with menu-driven options.
- Output gets saved to a new file sorted by each genre and platform



The screenshot shows a code editor with four tabs: OTTPlatform.py, RecommendationManager.py, main_program.py, and recommendation.tx. The active tab is recommendation.tx, which contains the following code:

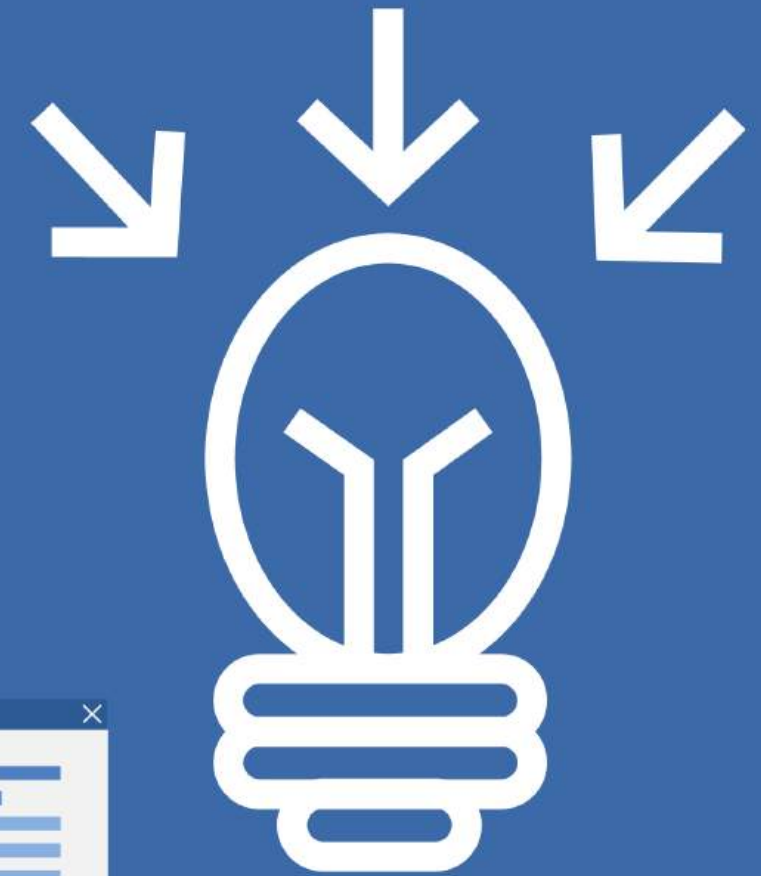
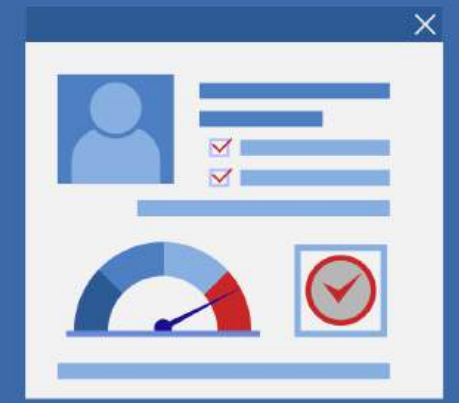
```
1 netflix:
2     romance: Me Before You, The Notebook
3     horror: It, The Conjuring
4     thriller: Bird Box, Inception
5 hulu:
6     action: Mission Impossible, Die Hard
7     comedy: Just Go With It, The Wedding Crashers
8
```


Conclusion

The Multi-OTT Platform Movie Watchlist Manager simplifies managing OTT recommendations.

Key Highlights:

- Efficiently manages platforms, genres, and recommendations.
- Offers persistent storage for seamless user experience.
- Provides a scalable foundation for future enhancements.
- Final Thought: A user-friendly solution to declutter and organize OTT content.



Thank you