

Local Video Library

<https://github.com/comp195/spring-2021-final-project-we-use-arch-btw>

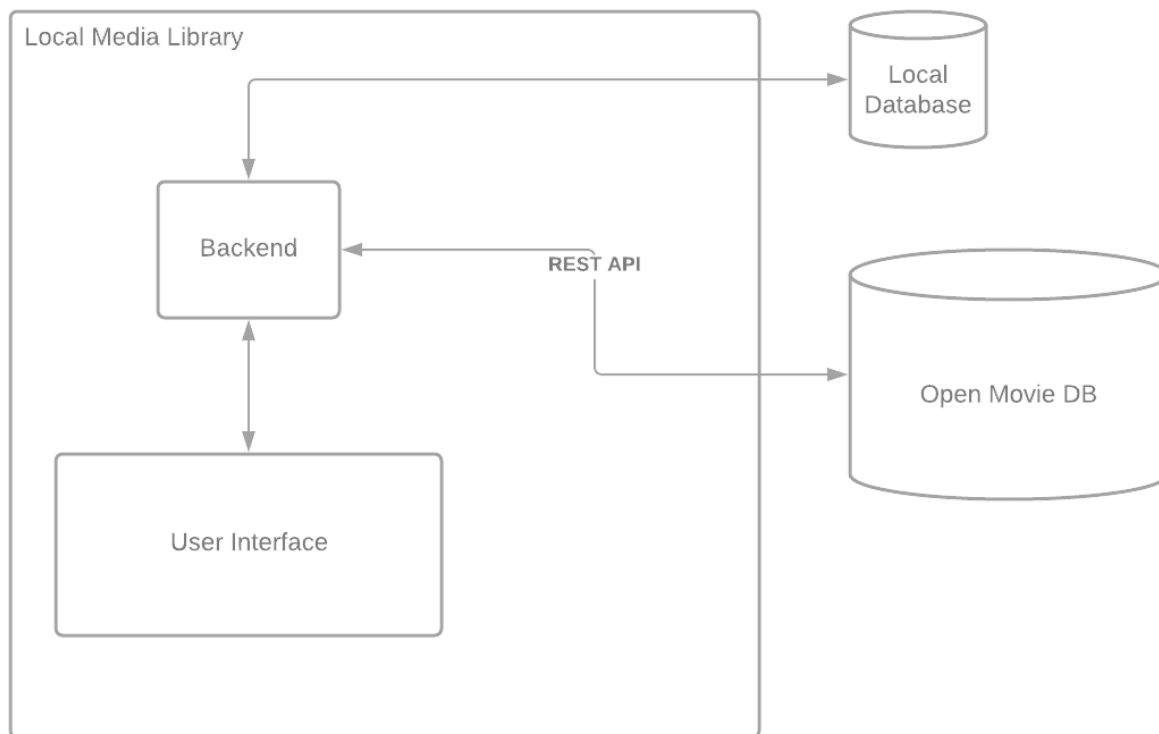
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System Architecture



Backend: Written in python, this component will receive events from the **User Interface** and interact with the **Local Database** to retrieve and store information about the user's media library

User Interface: The main interface that users will use to interact with the program. Using GTK, the user interface will receive information from the **Backend** and display the corresponding information to the user

Local Database: Database holding information obtained from the **Open Movie DB** and information about the user's local library. Using a SQLite database.

Open Movie DB: Online database holding movie and TV show information we will use to fill with information for local media files in our **Local Database**. The **Backend** will communicate via a REST API to retrieve information.

Hardware, Software, and System Requirements

Hardware Requirements:

CPU: Any modern CPU

GPU: Any modern GPU

Internet: Broadband Internet Connection recommended for metadata retrieval

RAM: 2GB

Disk Space: Varies based on the size of your media library.

Software Requirements:

Python: 3.6 or newer

Linux: Kernel 4.4 or newer

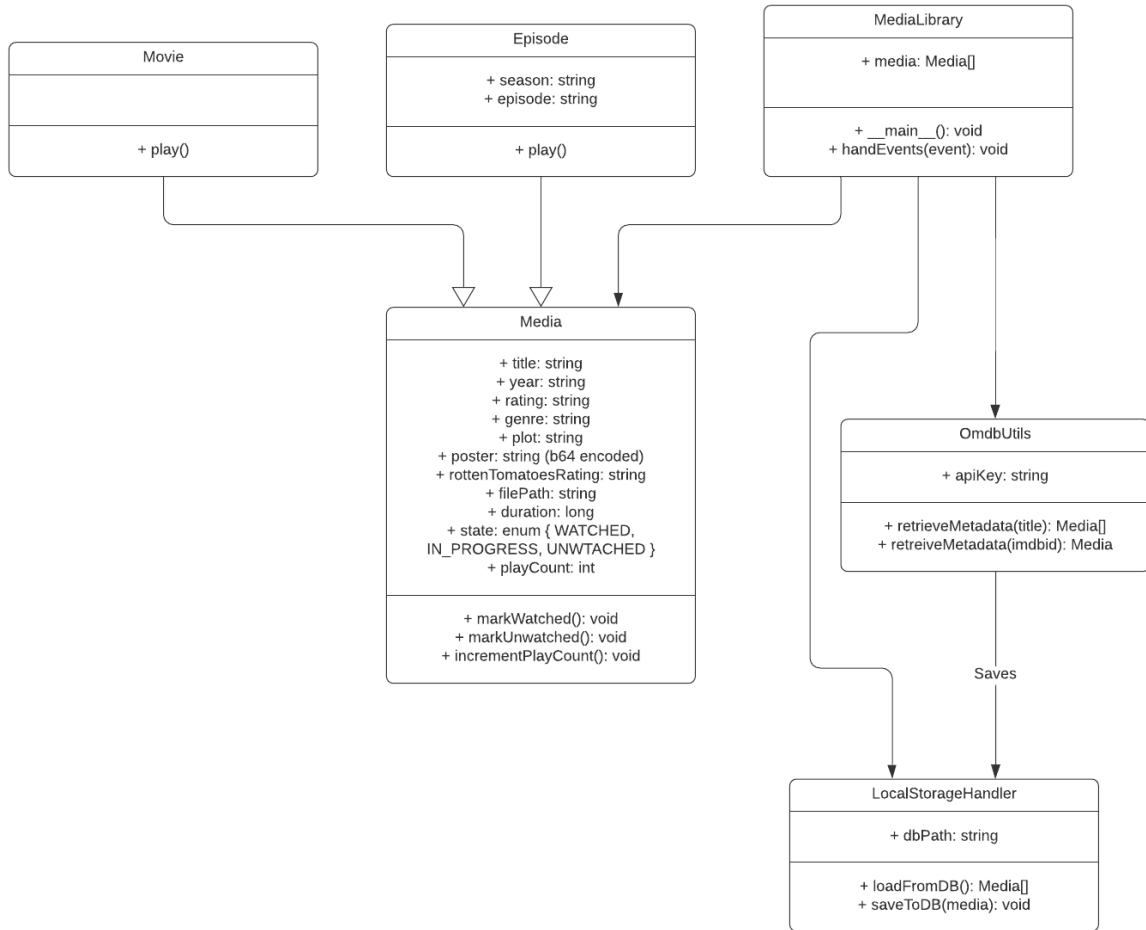
Display Server: Xorg

External Interfaces

Open Movie Database API: Documentation for the Open Movie Database API (OMDb) is available at <https://www.omdbapi.com/>

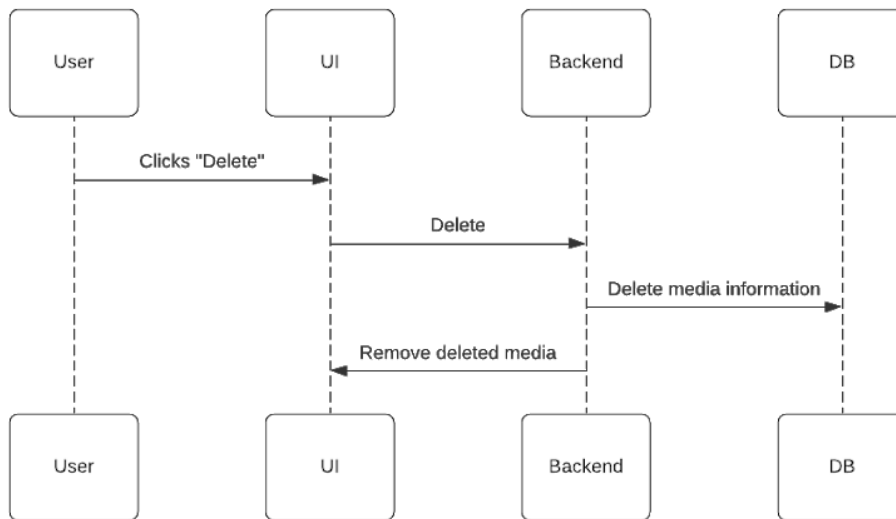
Software Design

UML Diagram

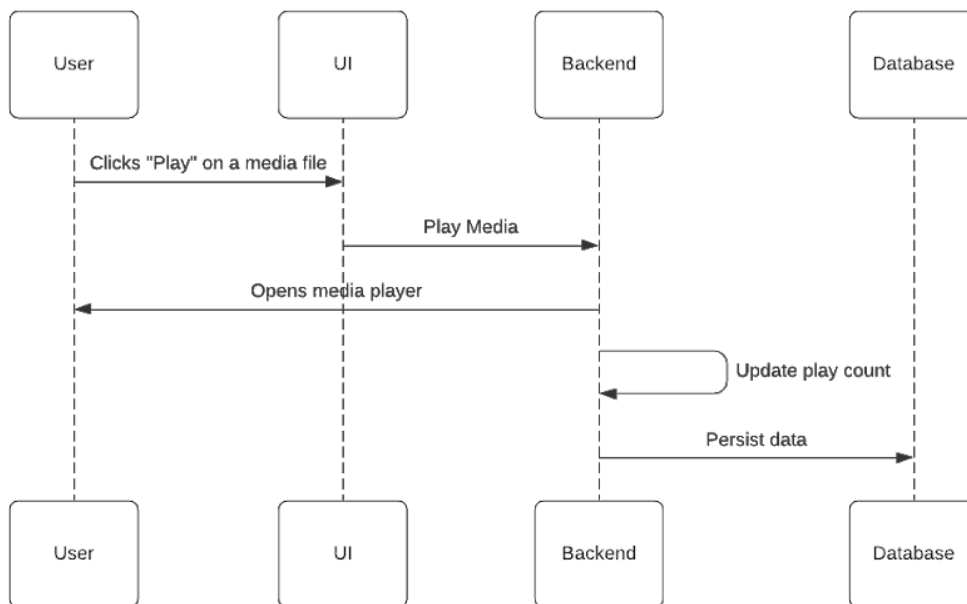


Interaction Diagrams

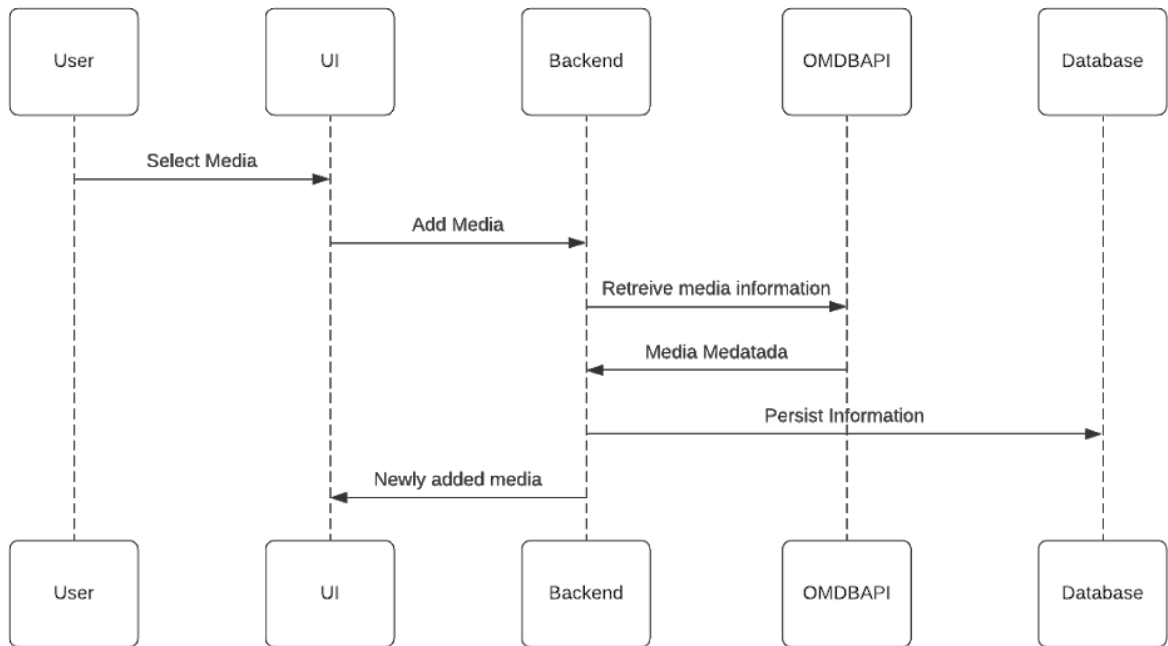
Delete Media



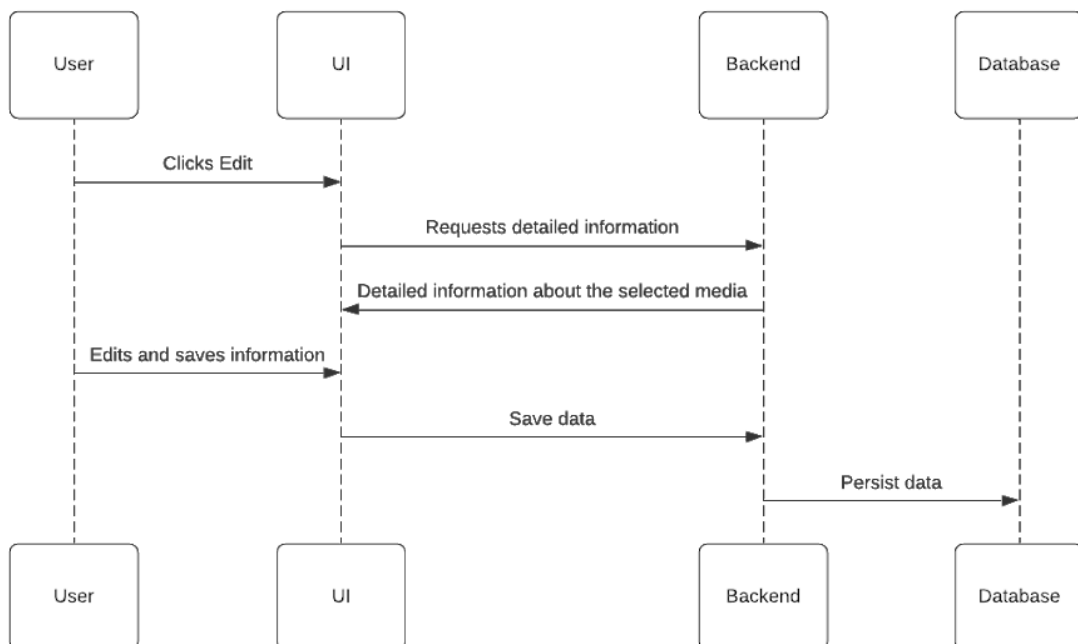
Play Media



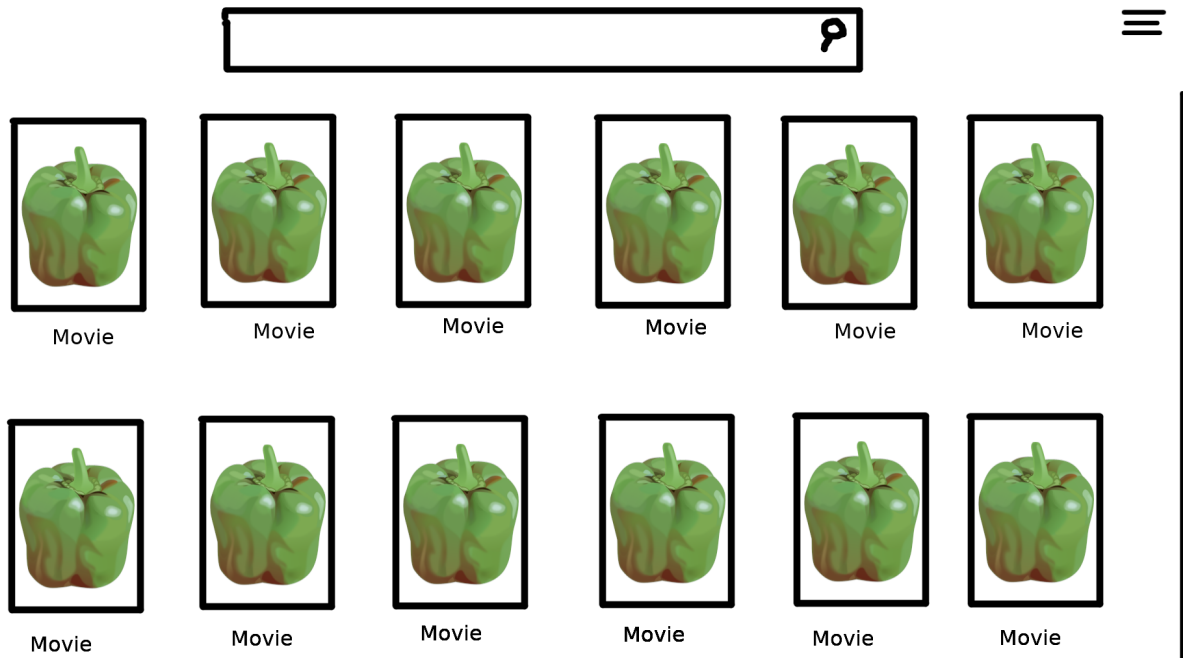
Add Media



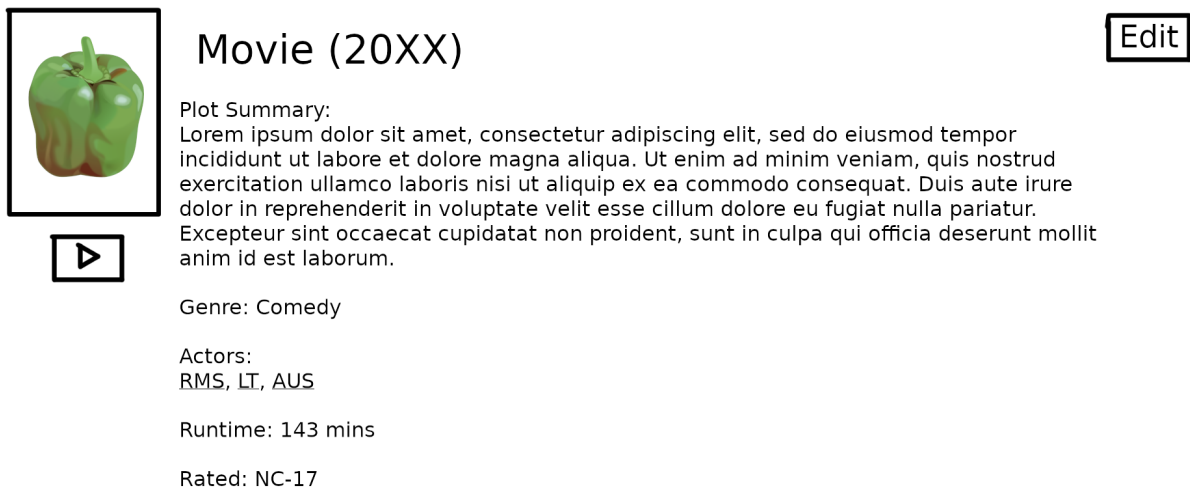
Edit Media



User Interface Design




Home Screen. Hamburger menu holds options to sort, add new entries, and settings. Shown movies are already in the local database, with information from the OMDb.



Media Screen. Screen when viewing one media entry. Shows all the data collected and allows for the user to change or play from this screen.

Title:	<input type="text"/>
Year:	<input type="text"/>
Plot:	<input type="text"/>
Genre:	<input type="text"/>
Rating:	<input type="text"/>
Actors:	<input type="text"/>



Edit Screen. Screen that allows the user to edit metadata of a show.

Glossary of Terms

OMDb API: OMDb is the Online Movie Database (<https://www.omdbapi.com/>) that holds metadata on various TV shows and Movies. We will use its API to collect this information and store it in our own local database to then be accessed by our backend.

Hamburger Menu: The Hamburger Menu is a context menu generally located at the top of the screen. It is named as such due to the three horizontal lines resembling a hamburger. Oftentimes, this contains settings and features that would be in a “File” or “Edit” system menu.

SQLite Database: A database conforming to the [SQLite specification](#).