### The Movie Library

The Movie library is to manage the details of movies like title, release date, genre, language. It should track all the details about movies, type, and user.

### User Stories

U-1: As a User, I want to be able to read in a XML file that contains data about movies, so that I can query it.

**Input herd.xml:**

<movies>

<movie title="Betty-1" genre ="crime" releaseDate=”01-10-2023” />

< movie title="Betty-2" genre ="sci-fi" " releaseDate=”01-10-2023” />

< movie title="Betty-3" genre="drama" " releaseDate=”01-10-2023” />

</ movies >

Your program should take 2 parameters:

* The XML file to read
* Return the list of movie for a given genre.

U-2: As a User I want to be able to load a new movie record into my movie library using an gRPC service so that I can open my movie library.

I want to be able to run my movie library and load movie record into it. Once I load a movie record, any previous state of my movie library should be reset to the initial state.

The following are the HTTP requests I want to make:

• POST /movie-library/load which returns a HTTP Status Code

205 (Reset Content)

**Example:**

Request: POST / movie-library /load

<movies>

<movie title="Betty-1" genre ="crime" releaseDate=”01-10-2023” />

< movie title="Betty-2" genre ="sci-fi" " releaseDate=”02-10-2023” />

< movie title="Betty-3" genre="drama" " releaseDate=”02-10-2023” />

</ movies >

Response: status = 205

U-3: As a Librarian I want to be able to query movie and its details using gRPC services which output JSON data.

The following are the requests you wish to make:

* GET /movie-library/movie/T which returns a detail of the movie released on T day
* **Examples:**

Request: GET /movie-library/movie/01-10-2023

Response: {

“Title”:"Betty-2",

“genre”:"sci-fi",

"releaseDate”:”01-10-2023”

}

Request: GET /movie-library/movie/02-10-2023

Response

{

"movies": [

{

"Title": "Betty-2",

"genre": "sci-fi",

"releaseDate": "02-10-2023"

},

{

"Title": "Betty-3",

"genre": "sci-fi",

"releaseDate": "02-10-2023"

}

]

}

U-4: As a Librarian. I should be able to update the details of any given movie using gRPC service.

If the update request was placed successfully you return HTTP status code 201 (created) with the resulting order

Request:

• POST /movie-library/movie/T where T is the id of the movie

**Examples:**

Request: POST /movie-library/movie/1

{

"Title": "Betty-2",

"genre": "sci-fi",

"releaseDate": "02-10-2023"

}

Response: status = 201

{

"Title": "Betty-2",

"genre": "sci-fi",

"releaseDate": "02-10-2023"

}