

## Task 2. Maintenance

The goal of this exercise is to carry out maintenance tasks on an existing Spring Boot project. The project includes, among others, model classes, unit tests, and a repository class that interacts with a list of films initially provided in a JSON file.

Complete the following tasks:

1. Improve the performance of the methods `getFilmByExactTitle` and `getFilmsByTitle` by using Java Streams. (2.5 points)
2. Update the above methods to throw an `IllegalStateException` if the title of any film is null or empty. (1 point)
3. Add a method to the `FilmRepository` class that accepts a list of films as an input parameter and returns the list sorted in descending order by year of release. Uncomment and use the corresponding unit test. (2.5 points)
4. Modify the project so that the list of films is read from the `films.xml` file located in the `resources` directory. Ensure that all existing methods still work as expected after the changes. (4 points)