



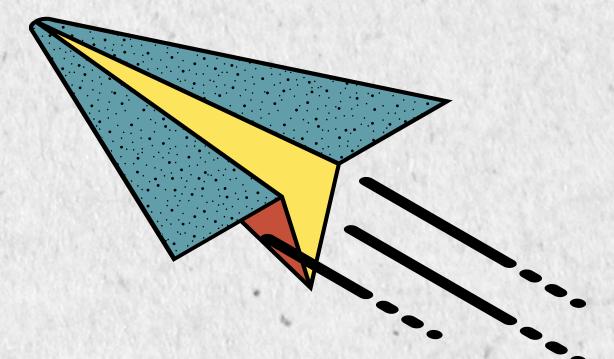
*Project in JAVA with connection PostgreSQL*

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# **FILMOGRAF MOVIE LIST MANAGEMENT SYSTEM**

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# INTRODUCTION

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In today's world, the film industry plays a significant role in the cultural life of society. With the emergence of a huge number of movies of different genres and formats, it is becoming increasingly difficult to organize and keep track of them.

The purpose of this project is to show a movie list management system developed in Java and linked to Database PostgreSQL. The system provides a user-friendly interface for adding, editing and viewing movie information. Also, the program implements the ability to search for movies by various criteria such as genre, year of release, etc.

**Plan:**

**JIRA**

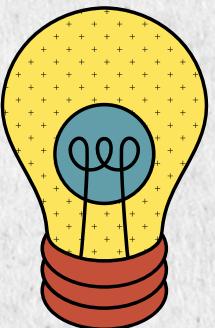
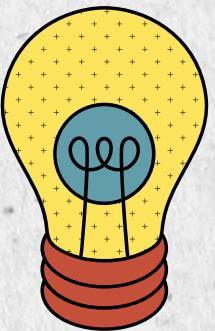
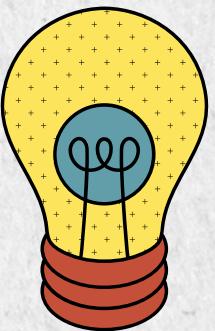
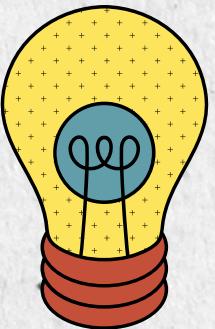
**GitHub**

**Filmograf movie list  
management system**

**ER Diagram**

**Libraries**

**Conclusion**



	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	АПР							АПР							АПР			
⚡ KAN-1 Defining the project topic	ГОТОВО																	
⚡ KAN-2 Creating a database for Movie list...	ГОТОВО																	
⚡ KAN-6 Programming in JAVA language	ГОТОВО																	
✓ KAN-7 Creating the project interface	ГОТОВО																	
✓ KAN-8 Creating Login Form	ГОТОВО																	
✓ KAN-9 Connection to database	ГОТОВО																	
⚡ KAN-10 Diagram	ГОТОВО																	
⚡ KAN-11 GitHub	ГОТОВО																	
⚡ KAN-12 Presentation	ГОТОВО																	
⚡ KAN-13 Report	ГОТОВО																	

# JIRA

# GITHUB

 Abandoned.csv	Add files via upload
 ER diagram	Rename rPF13e8m44JI_OeUDOQB2HTF-2LcflisAllkpNK02_hk...
 JAVA CODE	Create JAVA CODE
 README.md	Initial commit
 REPORTOON.docx	Add files via upload
 back.png	Add files via upload
 database	Create database
 favorites.csv	Add files via upload
 jira	Rename _____kanban_2024-04-24_10.59am.png to jira
 k.jpeg	Add files via upload
 movies.csv	Add files via upload
 users_login.csv	Add files via upload
 want_to.csv	Add files via upload

# Filmograf movie list management system

Filmograf is a movie list management system developed in Java. It provides a user-friendly interface for organizing, categorizing and managing a collection of movies. With Filmograf we can add new movies, browse the list of movies by different categories, and search by different categories. In short, this is a note with a list of movies you don't want to lose.

## ER DIAGRAM

**ER Diagram:** A diagram is created to show entities, their attributes, relationships and keys. It helps to visualize the structure of the data and its relationships.

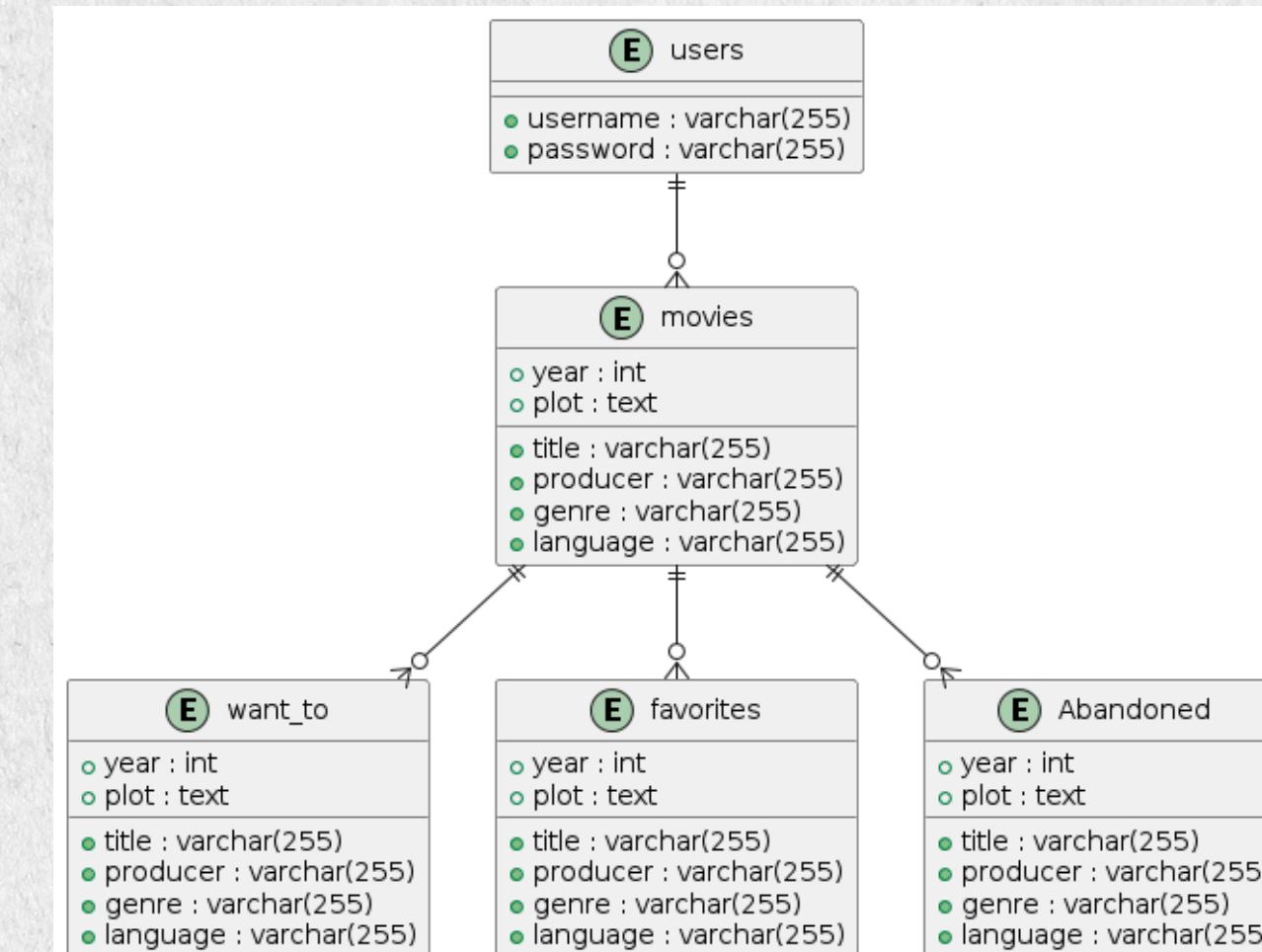
The relationship between these entities is indicated by lines:

- The users entity has a one-to-many relationship with the movies entity, which means that each user can have multiple movies.
- The movies entity also has a one-to-many relationship with the want\_to, favorites, and Abandoned entities, which means that each movie can belong to each of these categories.

### Filmograf Opportunities:

**Adding movies:** Filmograf makes it easy to add new movies to your collection. Just enter movie information such as title, director, year, genre and language and the program will automatically add it to the list.

**User-friendly interface:** The program has an intuitive and easily customizable interface that makes managing your movie collection as simple and convenient as possible.



## LIBRARIES

- As part of the development of the movie management system in Java, a number of external libraries and tools were used, which greatly simplified the development process and provided more efficient interaction with the database, creation of a graphical user interface and other functionalities.

### AWT (Abstract Window Toolkit) и Swing

These Java libraries are used to create a graphical user interface (GUI). AWT provides the basic components for creating an interface such as buttons, text boxes, and panels, while Swing provides more advanced components and a more flexible approach to creating a GUI.

### JDBC (Java Database Connectivity)

This is a Java API standard for interacting with databases. It provides the ability to connect to databases, execute SQL queries and process query results.

```
1 usage
private static final String DB_URL = "jdbc:postgresql://localhost:5432/postgres"; //connection with database
1 usage
private static final String USER = "postgres";
1 usage
private static final String PASSWORD = "1234";
```

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
```

```
1 usage
private static boolean authenticate(String username, String password) {
    String query = "SELECT * FROM users WHERE username=? AND password=?";
    try (Connection connection = DriverManager.getConnection(DB_URL, USER, PASSWORD)) {
        PreparedStatement statement = connection.prepareStatement(query);
        statement.setString(1, username);
        statement.setString(2, password);
        ResultSet resultSet = statement.executeQuery();
        return resultSet.next();
    } catch (SQLException e) {
        e.printStackTrace();
        return false;
    }
}
```

# CONCLUSION

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In the process of developing a movie management system, key aspects of creating a system in the Java programming language using a database and graphical user interface were mastered.

One of the main outcomes of the project is the experience gained in developing scalable and functional applications in Java. Through this project, the understanding of application architecture, database principles, and user interface design was enhanced.

Overall, the development of the movie management system allowed us to immerse ourselves in the world of Java application development, acquire new skills and experience, and demonstrate the ability to creatively approach problem solving tasks