**Phase 1: Problem Definition and Design Thinking**

**Problem Definition:** The problem is to develop a machine learning model that predicts IMDb scores of movies available on Films based on features like genre, premiere date, runtime, and language. The objective is to create a model that accurately estimates the popularity of movies, helping users discover highly rated films that match their preferences. This project involves data preprocessing, feature engineering, model selection, training, and evaluation.

**Design Thinking:**

1. Data Source: Utilize a dataset containing information about movies, including features like genre, premiere date, runtime, language, and IMDb scores.
2. Data Preprocessing: Clean and preprocess the data, handle missing values, and convert categorical features into numerical representations.
3. Feature Engineering: Extract relevant features from the available data that could contribute to predicting IMDb scores.
4. Model Selection: Choose appropriate regression algorithms (e.g., Linear Regression, Random Forest Regressor) for predicting IMDb scores.
5. Model Training: Train the selected model using the preprocessed data.
6. Evaluation: Evaluate the model's performance using regression metrics like Mean Absolute Error (MAE), Mean Squared Error (MSE), and R-squared.

**Dataset Link:** [**https://www.kaggle.com/datasets/luiscorter/netflix-original-films-imdb-scores**](https://www.kaggle.com/datasets/luiscorter/netflix-original-films-imdb-scores)

Based on the given dataset and the strategy planned, a machine learning model to predict IMDb scores of available movies by a certain criteria will be built such that it provides a better user experience.