Netflix use case

NHL Stenden, Assignment 1: use case

Assignment description

Develop the following use case into an Entity Relationship Diagram showing all entities, relationships, attributes and keys. Bear in mind that cardinality and optionality must be included. Make sure that the diagram covers the entire use case and consider making a number of components generic so that the system can easily be expanded.

Deliver the diagram in JPG format.

Use case

Netflix was founded in 1997 by Reed Hastings and Marc Randolph for the primary purpose of renting out DVDs in the United States. In 2007 Netflix started streaming media and in 2010 Netflix decided to expand to Canada. The company has worked hard in recent years to roll out its streaming services to the rest of the world.

Users

Users can register themselves by means of an email address and a password. Users need these to log in. Before users can log in for the first time, their account must be activated via their email address. After three wrong login attempts the account is temporarily blocked. If a user has forgotten the password, it can be reset, The user will receive an email containing a link via which the password can be changed.

Personal

The first time users log in successfully, they must create a profile. Each user account can contain a maximum of 4 profiles. The user must provide a name and can set up a profile photo. An age can be linked to each profile, so that those users can only watch films that they are allowed to watch. The user's language is set up automatically but can be changed if necessary.

An optional step is to apply preferences. Each user can indicate whether they are interested in series or films, certain genres, films with a minimum age, or films with a viewing classification. These viewing classifications are: All ages, 6/9/12/16 years and over, violence, sex, terror, discrimination, drug and alcohol abuse, and coarse language.

View

Users can watch a film. As soon as a user pauses a film or closes the screen, they can resume watching the film later on. The films viewed are eventually used to provide the user with a personalised offer, mainly when a film has been watched several times. Users can also switch on subtitles. The subtitles are preferably displayed in the user's language. It must be possible to discover when and how many times a user watches a certain film and/or series.

The same applies to series, only in this case the next episode is broadcast immediately after the end of the current episode. The credits of both films and series are not displayed full-screen; users are given the option to watch a similar or popular film.

Every profile has its own watch list. Users can store films or series they find interesting in the watch list and watch them later. Once a user has watched a film, it is removed from the list.

Subscription and restrictions

Users are given a 7-day free trial period, after which paid viewing commences. There are three types of subscriptions, namely: SD, HD, and UHD which cost € 7.99, € 10.99, and € 13.99 per month respectively. Films can be broadcast in various qualities, however qualities differ per film. Some older films are not available in high-definition or ultra-definition versions.

Users can invite another user to join Netflix, in which case both users get a 2 euro discount on their subscription as long as both users have a paid account. However, users do not get multiple discounts by inviting several other users to join.