Object Oriented Analysis and Design  
(INT3110 21)

*Course Project*

*Netflix.com Website*

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# Requirements

## Problem statement

### Addressing the problem

As quality of life standard increases, therefore, the need for entertainment increases. At the same time, people are more occupied than ever before. People wants a less time-consuming way to watch movies without ever standing in a queue or having to go to a store to purchase them. This evokes the need for a system for a service to help accommodate such needs. Users can watch a movie they want without the need of going out to a physical store or waiting at a queue in a movie theater. Movies distributors can distribute their movies on the system so that users can watch them. This has come to a demand for a system to solve this problem.

### Solution

Netflix.com is built as an online entertainment platform so that users can watch the movie directly on the website. Netflix is a streaming service that offers a wide variety of award-winning TV shows, movies, anime, documentaries, and more on thousands of internet-connected devices. You can watch as much as you want, whenever you want without a single commercial – all for one low monthly price. There's always something new to discover and new TV shows and movies are added every week!

**Description**

The system will be developed as a web application. End users will interact with the system over the Internet via a wide range of devices (smartphones, PCs, smart TV…).

People can register for an account then log into the system and buy a monthly subscription to start watching movies.

Users can search for movies and TV shows they are interested in and watch it. They can also view the information of a movie such as synopsis, trailers, etc. Moreover, they can add a movie to their watch list to watch later.

Administrator can upload movies and TV shows, edit their information on the system.

**End users**

The system’s end users are as follow:

* Users

Users are visitors registered to become registered users. They can buy subscription to watch movies and TV shows. Users can view information about the movies and add them to their watch list.

* Administrators

Administrators are responsible for managing the movies and TV shows on the system. They can upload movies, edit their information. They can also delete movies from a system if the contract with their distributors expires.

## Glossary

**Introduction**

This document is used to define terminology specific to the problem domain, explaining terms, which maybe unfamiliar to the reader of the use-case descriptions or other project documents. Often, this document can be used as an informal data dictionary, capturing data definitions so that use-case descriptions and other project documents can focus on what the system must do with the information.

**Definitions**

The glossary contains the working definitions for the key concepts in the Netflix.com website.

**Account**

A record about a user/administrator containing information about his/her username, e-mail, password, subscription and payment information. Each account has a unique user ID, which are used to identify the user/administrator and grant them access to specific parts of the system.

**Administrator**

A person whose job is to manage movies and TV shows on the system. He/she is responsible for uploading movies, adding or editing movies’ information and delete the movies from the system when the contracts are expired.

**Movie**

A movie made by movie studios and published by a distributor.

**TV Show**

A TV series consists of multiple episodes. Multiple episodes can be grouped into a season. A TV series may consist of one or many seasons.

**User**

Any person who has a registered account on the website but is not an administrator. Users can buy or cancel subscriptions, watch movies and view their information.

## Supplementary specifications

**Objectives**

The purpose of this document is to define requirements of the Netflix.com system. This Supplementary Specification lists the requirements that are not rapidly captured in the use case of the use-case model. The Supplementary Specification and the use-case model together capture a complete set of requirements on the system.

**Scope**

This Supplementary Specification applies to the Netflix.com system, which is a streaming website in the United States.

This specification defines the non-functional requirements of the system: such as reliability, usability, performance and supportability, as well as functional requirements that are common across a number of use cases. (The functional requirements are defined in the Use Case Specification.)

**References**

None.

**Functionality**

Multiple users must be able to perform their work concurrently.

**Usability**

The software must be easy to use so that a new user can learn how to use the system within 30 minutes.

The user interface has to be friendly and intuitive.

**Reliability**

The system must be available 24 hours a day, 7 days a week. The system must also have less than 5% downtime.

**Performance**

The system shall handle up to 10 terabits per second of simultaneous peak traffic.

The system shall provide access to the database with no more than 5 seconds latency.

The system must be able to complete at least 95% of all transactions within 15 seconds.

**Supportability**

None.

**Security**

The system must prevent users from logging in if they do not provide a correct password.

A movie or TV show can only be edited and deleted by an administrator.

Only administrators can upload movies to the server.

**Design Constraints**

The system must provide a responsive web-based interface that is usable on multiple devices, such as computer, smartphone and smart TV.