

# Assignment 1

## RE

*Software design*



*Author:* Nima Safavi (ns222tv@student.lnu.se)  
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Topic: Netflix – Imagine you are designing and developing an online video streaming service.

## Introduction

Netflix is an online content provider company headquartered in California, US. The company's primary business is a subscription-based streaming service offering online streaming from a library of films and television series, including those produced in-house. Netflix's started its business with DVD sales and rental by mail, but Hastings (founder) abandoned the sales about a year after the company's founding to focus on the initial DVD rental business. Netflix expanded its business in 2007 with the introduction of streaming media while retaining the DVD and Blu-ray rental business. Netflix entered the content-production industry in 2013, debuting its first series *House of Cards*. Since 2012, Netflix has taken more of an active role as producer and distributor for both film and television series, and to that end, offers a variety of "Netflix Original" content through its online library.

### 1. Stakeholders:

- Shareholders: is an individual or institution (including a corporation) that legally owns one or more shares of the share capital of a public or private corporation.
- Managers: are the people in charge of employees and the facilities they work for. They plan and promote the daily schedule of employees and the business, interview, hire, and coordinate employees, create and maintain budgets.
- Developers: expert who are in charge of implementation of requirements and deploy the application on different platforms

- Subscribers: a person who has arranged to receive or access the service by paying monthly fee.
- Secretary: administrative professional, or personal assistant is a person whose work consists of supporting management, including executives, using a variety of project management, communication, or organizational skills.
- Directors and producers: A director control the making of a film and supervises the actors and technical crew. Film producer is a person who oversees film production. Either employed by a production company or working independently, producers plan and coordinate various aspects of film production, such as selecting the script; coordinating writing, directing, editing; and arranging financing.

## 2.Requirements

### 2.1functional requirements

#### 2.1.1 registration of new users

- User should enter his/her E-mail.
- User should choose the plan for subscription.

#### 2.1.2 Registered customers sign-in

- The user can choose between different movie, series.
- The user can make a list of his favourite movie.
- The user can like or dislike the movies in the available in the library.

### 2.1.3 Payment for monthly subscription

- When users decided over the plan, they should select the payment method.
- User should enter his name and bank card information.

### 2.2 Non-functional requirement

- User 's Last name should consist of *letters* only.
- The card number should consist of *16 digits* to be valid.
- The security code should be 3 or 4 digits.

## 3. Requirement analysis

	Requirement 1	Requirement 2	Requirement 3
Premature design	Yes	Yes	Yes
Unnecessary requirements	No	No	No
Combined requirement	No	No	No
Use of non-standard hardware	No	No	No
Conformance with business goals	Yes	Yes	Yes
Requirement realism	Yes	Yes	Yes
Requirements testability	Yes	Yes	Yes

#### 4. Classification of faceted approach

	Requirement 1	Requirement 2	Requirement 3
System	Yes	Yes	Yes
User-interface	Yes	Yes	No
Database	Yes	Yes	No
communications	No	No	Yes

#### 5. Requirements validation

Are the requirements complete?	Yes
Are the requirements consistent?	Yes
Are the requirements comprehensible?	Yes
Is the requirements document structured	Yes
Are the requirements ambiguous?	No
Are the requirements traceable?	Yes
Does the requirements document as a whole?	Yes

## 6. Test Cases

Test ID: TC1

Requirement registration of new users

Priority: High

Main scenario: successful sign up

Pre-condition:

User must choose to sign up.

Test steps:

- Enter a valid email address.
- Enter a password (between length of 4 and 64 characters)

Expected result:

The customer will be taken to a page to select the plan

Actual result:

Pass

Alternative scenario:

The email or password is not valid and user cannot register.

Test ID: TC 2

Requirement 2: registered customer sign-in

Priority: High

Main scenario: Sign-in

Pre-condition: The customer is already registered in the system.

Test steps:

- Click on the sign-in
- The log-in interface is displayed
- The customer enters his/her email or phone number
- The customer enters his/her password

Expected result:

The customer logs in successfully

Actual result:

Pass

Notes: The customer cannot be authenticated due to wrong email or password.

Test ID: TC3

Requirement: payment for monthly subscription

Main scenario: Successful subscription

Pre-condition: Customer has logged in

Test steps:

- Select the subscription plan and hit continue
- Select the bank card
- Payment form will be displayed
- Input the bank account information
- Click on start membership

Expected result: The payment is done successfully



Actual result: Pass

Alternative scenario: The bank card information is not valid, and the transaction was not done.