



**Linnæus University**  
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Report

# 2DV608 Assignment RE

*Software Design*



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## 1. Introduction

In this assignment, I will choose Netflix as my main case study. What I mean by this is that I am supposed to develop and design a system whose main goal is to be a subscription-based broadcasting system containing a variety of different genres of films including several languages along with the subtitle. Also, it will be convenient for its subscribers due to the reason that it is available worldwide.

## 2. Stakeholders

### 1. Developer

A developer must examine what the user wants then they must design and manufacture software that fulfils their requirements. For example, a front-end developer at Netflix has the responsibility of the graphical interface.

### 2. Tester

A tester has the responsibility of testing software and investigates to detect the project's bugs or any problem which is causing the software to malfunction.

### 3. End-user

An end-user is known as a person who makes use of a product. Also, the end-user will use the product after it has been fully developed based on the user experience. In this case, the end-user is the subscriber who has access to a large collection of movies.



#### 4. Managers

A manager has the responsibility of supervising and organizing the staff, resources. Also, the manager has the responsibility of developing and carrying out tasks such as planning, arranging, and controlling.

#### 5. Accountants

An accountant is a person who is responsible for saving and interpreting financial records. For example, the accounts are working in different branches of the Netflix firm, should calculate and pay the staff their salary.

#### 6. Advertisers

An advertiser is a person who has the responsibility of promoting a company by creating an eye-catching advertisement.

### **3. Functional requirements:**

#### **3.1. Requirement 1: Member signup**

- The new member can see different information about the services.
- The new member can choose different plans (basic, standard, and premium) for getting different features.

#### **3.2. Requirement 2: Member sign in**

- Register members have the access to all the series and movies.
- Register members can access the system with different devices.
- Register members can select favorite movies and add them to My List.
- Register members can like or dislike the content in the system.
- Register members can view the up-coming movies or series.
- Register members can find the relevant movies or series based on the selected genre.



- Register members can watch the content in different languages along with the subtitle.

### **3.3. Requirement 3: Payment**

- The new member will be taken to the payment portal as soon as he has chosen the ideal plan.
- New Member has different payment methods to pay.

### **4. Non-functional requirements**

- Member's last name should not contain any digit.
- Member's credit card number should not contain any alphabet.
- The security number length should not be more or less than 3.
- Proper content for members with different age range.
- Good quality streaming.

### **5. checklist for the requirements analysis**

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



## 6. Classification on Faceted approach

	Requirement 1	Requirement 2	Requirement 3
Communication	No	No	Yes
Data base	Yes	Yes	No
System	Yes	Yes	Yes
User-interface	Yes	Yes	No

## 7. Requirements validation

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

## 8. Test cases

### 8.1. TC 1 – REQ 1 Member signup

Requirement: REQ 1

Precondition:

- The new member should be on the registration page.

Test steps:

1. Open the registration page.
2. Enter the email address.
3. Choose a username.



4. Choose a valid password.
5. Press on the start Paid membership button.

Expected results:

1. The member will receive a confirmation email stating the registration was successful.

Status: pass.

Test priority: high.

Extension:

1. The member will enter an invalid input.
2. An error message informing the user the entered input was not valid will be displayed.

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## 8.2. TC 2 – REQ 2-member sign in

Requirement: REQ 2

Precondition:

- Member should have subscribed to a plan already.

Test steps:

1. Member will press the login button.
2. The login page will be shown.
3. Member will enter the username.
4. Member will enter the password.
5. Member will press on the sign-in button.



Expected results:

1. The member will log in successfully.

Status: pass

Test priority: high

Extension:

1. Member will enter one of the entries wrong.
  2. An error message will be shown.
- 

### 8.3. TC 3 – REQ 3-payment

Precondition:

- Member has logged in successfully.
- Member has chosen the ideal plan.

Test steps:

1. The payment portal page is open.
2. Member will choose a payment method. (Credit card, PayPal, or debit card).
3. Member will enter the payment information.
4. Member will press on the Start paid membership button.

Expected results:

1. The member will receive an email confirming that the transaction was successful.

Status: pass.

Test priority: High.





Extension:

1. Member will enter one of the credit card information wrong.
2. Member's credit card does not have sufficient money.