

LZSCC.211 Coursework Report - <Your Student ID>

Task 1 - Functionalities [10 Marks]

The code submitted by the young developer is expected to fulfill the following functional requirements:

- FR1. The system shall allow only admin users to add additional admin users
- FR2. The system shall allow free users to subscribe and change their status to premium users
- FR3. The system shall allow premium users to unsubscribe and change their status to free users
- FR4. The system shall require free users to submit their payment when subscribing
- FR5. The system shall guarantee that all usernames are unique
- FR6. The system shall allow all users to edit their profile (i.e., change password, change number of movies shown while browsing)
- FR7. The system shall allow all users to browse the movie catalogue, movies are listed in chunks based on user's profile settings
- FR8. The system shall allow free users to stream only with advertisements
- FR9. The system shall allow admin and premium users to stream in High Definition
- FR10. The system shall allow new users to register

Your first task is to understand the provided code, and fill the following table by putting an X on the relevant cell.

Requirement	Fulfilled	Violated
FR1		
FR2		
FR3		
FR4		
FR5		
FR6		
FR7		
FR8		
FR9		
FR10		

Task 2 - Provided Code Class Diagram [5 Marks]

After studying and understanding the provided code, use the PlantUML tool (<https://plantuml.com/>) to produce the class diagram representing the given code. Draw your diagram at specification level and do not provide methods with private visibility.

<Insert the image of your diagram here>

Task 3 - Identify and Explain Design Issues [10 Marks]

The provided code clearly does not follow many of the good design practices. Identify five cases within the provided code, and briefly explain what the problem is.

1. First identified problem here: brief explanation here
2. Second identified problem here: brief explanation
3. And so on

Task 4 - New and Improved Class Diagram [10 Marks]

Use the PlantUML tool to produce a new and improved class diagram representing your proposed solution so that the new structure follows good design principles. Draw your diagram at specification level.

<Insert the image of your diagram here>

Task 5 - Refactoring [15 Marks]

This task does not impact the report since it focusses on the implementation. Check carefully the coursework description to understand what is needed.

Task 6 - Non-Functional Requirements [10 Marks]

The last task requires you to write down five non-functional requirements for the LeipFlix platform. Note that those requirements do not have to come

from your revised implementation, but you are allowed to come up with reasonable non-functional requirements for the final LeipFlix platform.

NFR1. Write your requirement here

NFR2. Write your requirement here

NFR3. Write your requirement here

NFR4. Write your requirement here

NFR5. Write your requirement here

Appendix

Put in appendix all your interactions with Gen AI models if you are using them to assist you in the coursework