Radolina Petrova

Design document

RADIFY – music platform

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# C4 Software Architecture

## **C1**

Diagram

Description automatically generated

## **C2**

Diagram

Description automatically generated

## **C3**

Diagram

Description automatically generated

## **C4**

Diagram

Description automatically generated

# SOLID principles

## S: Single Responsibility Principle

The single responsibility principle states that “A class should have only one reason to change”, says the originator of the term, Robert C. Martin. This principle is applied in my project by dividing the classes of every architectural layer, so that each one of them is responsible for the functionalities related to one entity.

## O: Open-closed Principle

The Open-Closed principle follows the logic, that software entities should be open for extension and closed for modification. This is mainly achieved by inheritance and polymorphism in general, but since these techniques are not applicable in my project, so the only thing I can do to make sure my entities are extendable, was passing the whole objects and having converters in the separate layers, so if any part of this entity is modified, it will require minimal changes in the converter method.

## L: