**Notes on technical and graphical**

**improvement of LastFM-Top10 application**

Looking at the work of the application, I came to the conclusion that it is necessary to replace its current architecture with a new one, using the MVP pattern. I need to do this in order to clearly separate the data caching logic into a standalone module. This will give us constant access to previously downloaded information and hide from the user the process of updating the data. That is, after the download of the new data, the only thing that the user sees is their substitution in the RecyclerView.

Also I think that it is necessary to add some indicator that gives the user to understand that at the moment he sees the cached data and, accordingly, they can be irrelevant. After updating the data, this indicator can be hidden. But then the question remains open: "After what period of time, since the last update, is it considered irrelevant?". In addition, I want to organize an automatic update of the data, when this period will be clearly defined.

I also would like to refuse Picasso in displaying photos of artists and albums, so that this download at every update also does not spoil us the whole form of the application and does not irritate the user.

The main photo of the artist is downloaded and added to the database is not entirely correct - it sometimes does not download (is lost). This logic needs to be reviewed.

The function of choosing a country for the review of artists in it remained unrealized. It is planned to add the ability to enter data using Google Places, as well as select a country on Google Maps. Now in the annex for an example three countries are preset: Ukraine, Georgia, Switzerland.

It is necessary to replace the standard design of the context menu (this menu allows you to sort artists and albums by name or by the number of plays), because it does not match the main design of the application.