

ABSTRACT

The work contains 100 pages, 21 figures, 4 tables, 29 sources have been used.

Goal: is the development of a mobile application for the collection of data on the quality of cellular coverage.

Object of research: framework for cross platform mobile development Xamarin.

Subject of the study: use of the framework for cross-fertilization Xamarin to collect data on the quality of cellular coverage.

The work considers the development of a mobile application based on the Xamarin framework for the development of a Web application based on .Net Core Framework. This application allows in the background to collect data on the quality of the cellular communication of a mobile device user and transfer this data to the server, where the accuracy of the data increases with the use of the side of the micro services and aggregated together with data from other users.

Key words: Xamarin, .Net Framework, .Net Core, Rest, Http, QoS, Android.