

to the system at any time. It also allows the architecture of an individual service to emerge through continuous refactoring, and hence reduces the need for a big up-front design and allows for releasing software early and continuously.

There is no industry consensus yet regarding the properties of micro-services, and an official definition is missing as well. Some of the defining characteristics that are frequently cited include:

- the services are easy to replace;
- services are organized around capabilities, e.g., user interface front-end, recommendation, logistics, billing, etc.;
- services can be implemented using different programming languages, databases, hardware and software environment;
- services are small in size, messaging enabled, bounded by contexts, autonomously developed, independently deployable, decentralized and built and released with automated processes;
- services communicate with lightweight mechanisms, often an HTTP resource API.

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IMPLEMENTATION OF VIDEO CALLS FOR MACOS PLATFORM

В настоящее время использование видеовызовов очень актуально. Развитие ИТ-индустрии, продажа мобильных устройств со встроенной камерой, удобные тарифные планы различных мобильных операторов оказывают большое влияние на использование программного обеспечения, специально разработанного для этой цели. Рассматриваются альтернативы реализации видеовызовов на устройствах, работающих на платформе MacOS.

We live in the era of information technologies and communications. From ancient times it will be very important to communicate at a distance. It all started with the simple letters, then phone calls, emails, and finally the world saw video calls.

Nowadays, the use of video calls is very actual. The development of the IT industry, the sale of mobile devices with built-in camera, as well as the widespread distribution of hot spots and convenient tariff plans of different mobile operators has a great influence on using some software designed specifically for this purpose.

This course work include organization and practical implementation of video features for MacOS platform and consist of three chapters.

The first chapter is about implementation of video calls in 20-th century, modern concept of video communication and prospects of video calls. The second chapter include different information about cross-platform soft, some types of network protocols and video communication software for MacOS platform.

The third chapter include information about implementation of video communication in local area network, wide area network and data about video communication support by mobile operators.

As a result of this course work – video organization were studied by me, since the 20th century, the implementation of it today, and even with an eye to the future. There were studied in detail the various programs for the MacOS platform, which allows any user to conduct a video conference or just call anyone.

There were thoroughly studied different protocols for cross-platform software that enable you to make video calls on the MacOS.

Besides, there were learned some information about the practical organization of video conference, that was held at the local and global networks and some information about support functions of video communication by mobile operators.

As a result of the practical use of the conference organizing – there were held an experiment of organization the video channel from Nice and Prague to Gomel and from Minsk to Moscow.

As a result, both programs showed excellent compatibility with different operating systems.

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**TECHNICAL ASPECTS OF IMPLEMENTATION
OF THE APPLICATION FOR THE ANALYSIS
OF THE LABOR MARKET
FOR THE COMPANY «IBA GOMEL»**

Рассматриваются технические детали реализации приложения для анализа рынка труда. Данное приложение разработано для предприятия «ИБА Гомель» и находится в тестовой эксплуатации.

The application for the analysis of the labor market data was developed for the company «IBA Gomel». It allows to analyze the increase or decrease in demand for a particular position for a certain period, change of wages in a