Requirements Document

1 Introduction

Analyzer Currency – the program contain the analysis at the exchange rate, analyze tendencies to growth or falling and to demonstrate. The program not can issue exact data about what volume exchange rate will tomorrow. It shall be simple and convenient application in which the converter will also be embedded and it will be possible without opening to realize the calculator simple operations.

2 User requirements

2.1 Software Interfaces

OS: Windows, Linux, Mac.

Programming language: Ruby.

External libraries and services: api Yahoo Finance (http://finance.yahoo.com/).

2.2 User interfaces

User interaction will be followed generally by different menus. The choice of certain currencies which course he wants to trace will be provided to the user. Opportunity of converting of currencies will be given.

2.3 User Characteristics

This program will be useful to the people who are specializing on the analysis of the currency market and engaged in monitoring of currency and exchange operations.

Main characteristics of customers: aged people of 15 years, the advanced PC user.

2.4 Assumptions and Dependencies

The program completely depends on the Yahoo server. In case of DDOS of attacks, mechanical damage of the server and other possible reasons of failure of the server operation of application won't be carried out.

3 System Requirements

As this application will be realized on Ruby on Rails which is cross-platform, it will be operable on any OS.

Also the device from which application will be started, shall have Internet access.

3.1 Functional Requirements

1. Possibility of a choice of exchange rate

2. Request to the Yahoo Finance Internet service for obtaining information on the selected exchange rate

3. Display of the selected exchange rates

4. Possibility of converting of one currency in another

3.2 Non-Functional Requirements

1.   Simplicity of the user interface (The application interface shall be most simplified that it was easier, more pleasant to the user, without wasting excess time, to use this is blown).

2.   Reliability (This application is intended for operation with finance, so because of the slightest failure in system the user can lose big money. Therefore reliability in this application one of important requirements, it it is necessary to make maximum, on how many it is possible, differently this application won't be in demand).

3.   Extensibility (In a pattern there are about 200 types of currencies, and, so it is necessary to provide ability to integrate more localized services which I will be able to provide more rare exchange rates if it is wished by the user).