**Wyzer**

Shares analyzer Project

**Software Requirements Specification**

**Version <1.0>**

**Revision History**

| Date | Version |
| --- | --- |
| 04/02/2024 | 1.0 |
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**Software Requirements Specification**

**1. Introduction**

The objective is to develop a spot trading analyzer for energy and gas shares in Serbia, and other European countries. The proposed product will be constructed using trained models and will incorporate various tools based on statistical analysis.

**2. Overall Description**

The following project contains a web interface equipped with analytical tools tailored for spot trading. The primary objective of this product is to interest users to depend on our comprehensive analysis of spotted trading time-ranged data, enabling them to make well-informed decisions regarding buying or selling The user-friendly interface and sophisticated analytical features provide an easy to use platform for users to navigate through the complexities of the technical analysis, improving their ability to make strategic and well-informed investment decisions.

**3. Specific Requirements**

**3.1 Functionality**

*3.1.1* ***Prediction model configured to do forecast within 48 hours.***

3.1.1.1 The model shall correctly predict more than 3 trade-spotted shares of electricity.

3.1.1.2 The model should be trained using the auto-regression method.

3.1.1.3 The model should have accuracy bigger than 0.85.

*3.1.2* ***Provide comprehensive data analysis.***

3.1.2.1 The system shall display detailed information of trends, stationarity of data, correlation, normality check, forecasting.

3.1.2.2 The system shall provide browsing options to see analysis for advanced users and the beginner. The second one should be trends, forecasting, and anything else for advanced users.

*3.1.3* ***Detailed shares Categorizations***

The system shall display detailed shares categorization to the user.

*3.1.4* ***Provide Search facility.***

The system shall enable users to enter the search shares on the screen.

The system shall display all the matching products based on the search

The system shall enable users to navigate between the search results.

The system shall notify the user when no matching product is found on the search.

*3.1.5* ***Provide Shares Timeline.***

The system shall display timeline data of current share based on user option.

The system shall allow users to select a trading timeline to display (1 hour, 12 hours, 1 day, 7 days, 1 month, 1 year).

**3.2 Usability**

*3.2.1* ***Graphical User Interface***

The system shall provide a uniform look and feel between all the web pages.

The system shall provide graphics for each selected share.

The system shall provide use of icons and toolbars.

*3.2.2* ***Accessibility***

The system shall provide handicap access.

The system shall provide multi language support.

**3.3 Reliability & Availability**

*3.3.1* ***Back-end Internal Computers***

The system shall provide storage of all databases on the server.

The system shall provide for replication of databases to off-site storage locations.

The system shall provide a parser of data and loading to the database.

**3.4 Performance**

The product shall be based on the web and has to be run from a web server.

The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.

The performance shall depend upon hardware components of the client/customer.

**3.5 Security**

*3.5.1* ***Data Transfer***

The system shall use secure sockets in all transactions that include any confidential customer information.

*3.5.2* ***Data Storage***

The system’s back-end servers shall only be accessible to authenticated administrators.

The system’s back-end databases shall be encrypted.

**3.6 Supportability**

*3.6.1* ***Configuration Management Tool***

The source code developed for this system shall be maintained in configuration management tool.

**3.7 Design Constraints**

*3.7.1* ***Standard Development Tools***

The system shall be built using a standard web page development tool that conforms to either IBM’s CUA standards or Microsoft’s GUI standards.

*3.7.2* ***Web Based Product***

There are no memory requirements

The computers must be equipped with web browsers such as Internet explorer.

The product must be stored in such a way that allows the client easy access to it.

Response time for loading the product should take no longer than five minutes.

A general knowledge of basic computer skills is required to use the product

**3.10 Interfaces**

The protocol used shall be HTTP.

The Port number used will be 80.

There shall be logical address of the system in IPv4 format.

*3.10.1* ***User Interfaces***

The user interface for the software shall be compatible to any browser such as Internet Explorer, Mozilla or Netscape Navigator by which user can access to the system.

The user interface shall be implemented using any tool or software package like Java Applet, MS Front Page, EJB etc.

*3.10.2* ***Hardware Interfaces***

Since the application must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system. As for e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

*3.10.4* ***Communications Interfaces***

The e-store system shall use the HTTP protocol for communication over the internet and for the intranet communication will be through TCP/IP protocol suite.

**3.11 Licensing Requirements**

Not Applicable

**3.12 Applicable Standards**

It shall be as per the industry standard.