DEVELOPMENT OF AN INFORMATION AND ANALYTICAL SYSTEM FOR PREDICTING PRICE FLUCTUATIONS AND LONG-TERM TRENDS USING GENERATIVE-ADVERSARIAL NEURAL NETWORKS

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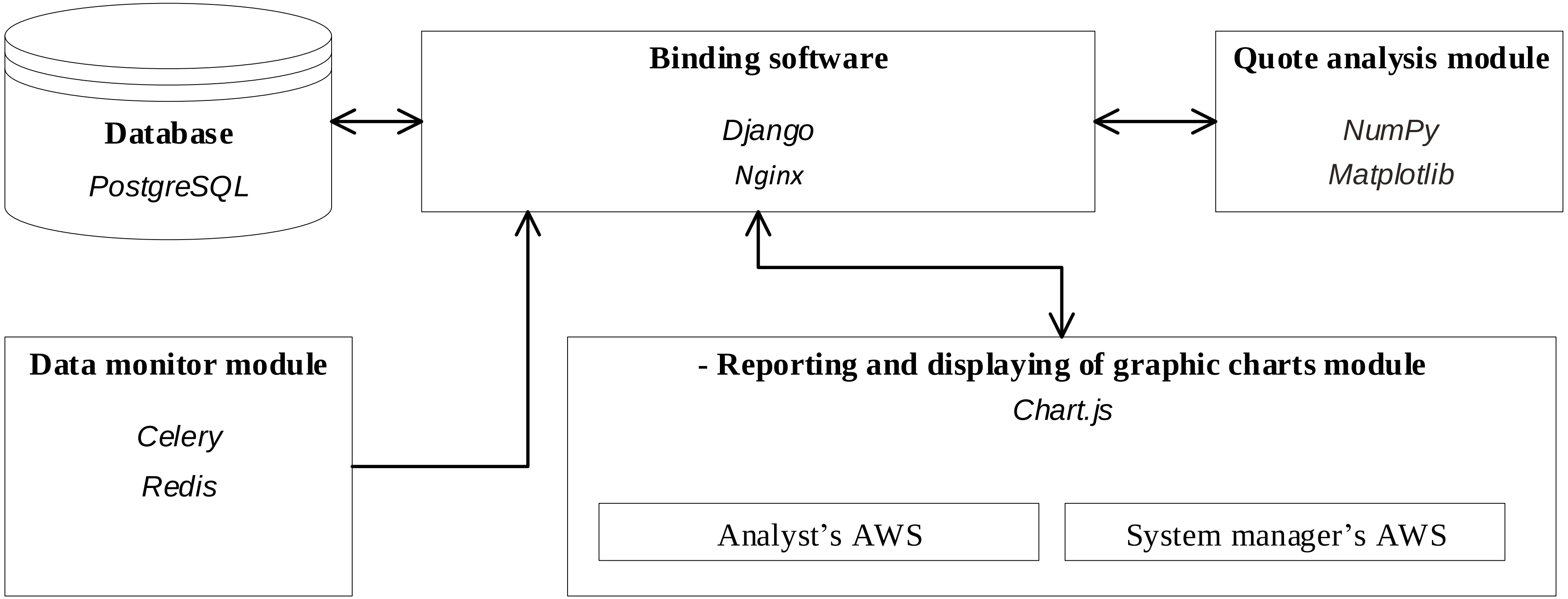
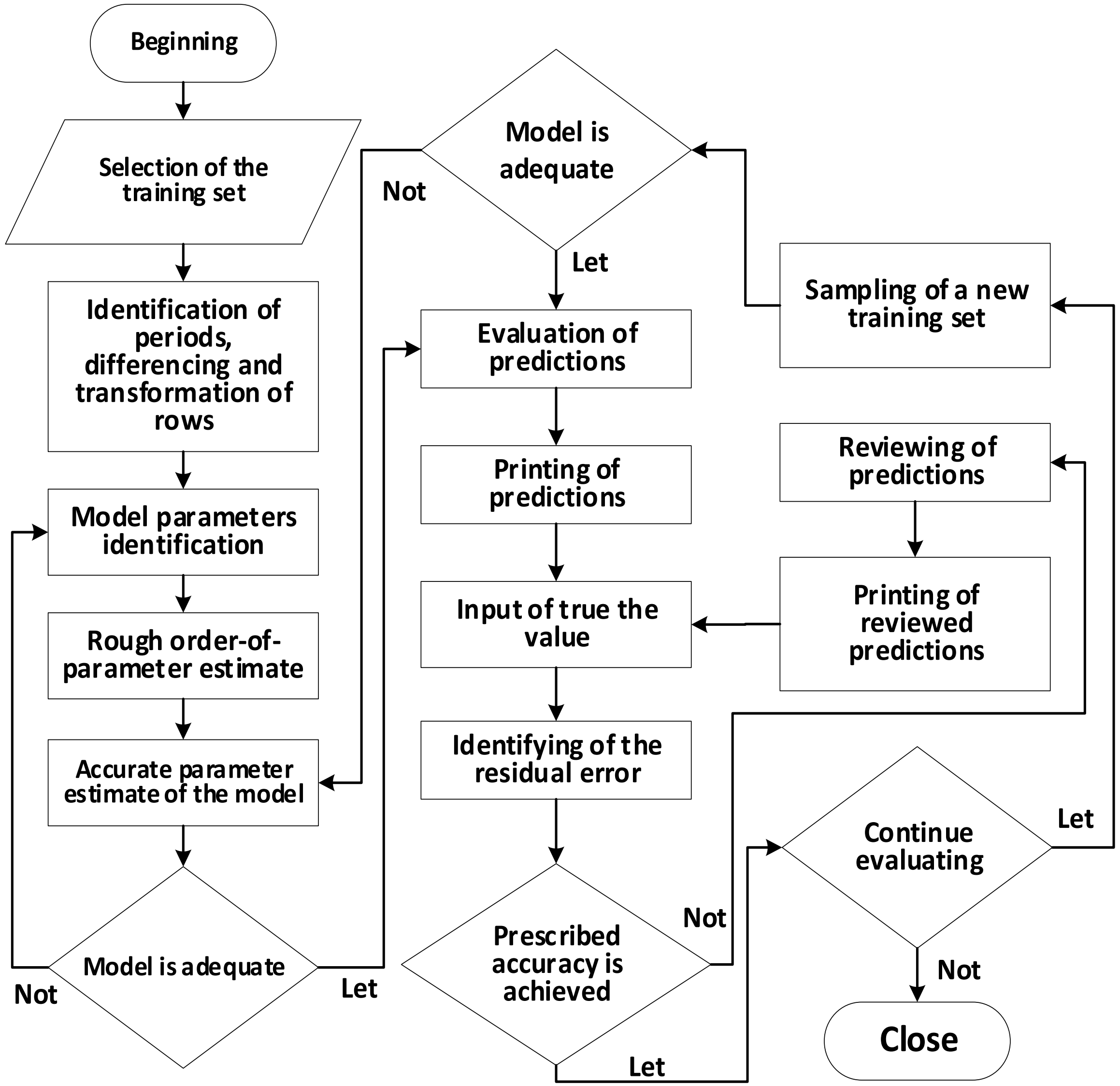
Objectives and goals

- Each financial market is posed a challenge to study and put into practice various methods of analyzing and predicting a price performance of the stock market, as well as to find out which of price forecasting tools are the most accurate and reliable.
- In this study, we used a technical method of stock market analysis and various mathematical models for predicting price performance based on the theory of time series.
- The practical significance of the obtained results is the ability to analyze and predict the value of financial assets which are expected to be invested

General structure of the IAS



Algorithm that restricts the course of the trend



Algorithm output for the trend course forecasting