

ABSTRACT

SOUNDEX ALGORITHM IMPLEMENTATION FOR NAME SEARCH ON ELECTRONIC PHONEBOOK

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Names searching in the database, author catalog, or the phone book is common things in the phone book information system. Names in the list can easily be found if the spelling of the names is certainly known. If the spelling is not exactly known or if an error occurs while searching for the name typed in the list of names then search may result a failure.

To address these issues, we need an application that can perform string matching based on similarity in terms of pronunciation in the sought name, making it easier for us because it can display similar names based on heard speech.

This application was built using the Soundex algorithm. The methodology used in the development of this system is linear sequential and Visual Basic 2010 programming language and SQL Server 2008 as its database. The first name searching trial resulted in 0.4936 precision rate and accuracy rate of 99.51%, while the second trial resulted 0,921 precision rate and 99.93% accuracy rate.

Keywords : *String matching, Soundex, Visual Basic 2010, SQL Server 2008.*