



Verification of Occurrence of Arabic Word in Quran

Umm-e-Laila*

SSUET, Karachi, Pakistan.

Fauzan Saeed*

Usman Institute of Technology, Karachi, Pakistan.

Abdul Aziz*

PhD Scholar, Hamdard University, Karachi, Pakistan.

Farrukh Aziz*

SSUET, Karachi, Pakistan.

ABSTRACT

QURAN word of GOD, the religious text of Islam conceals many secrets which are being revealed as the time is progressing. This includes names of GOD, occurrences of important figures in the multiple of 19 and so on. This can be verified through software that would calculate the occurrences of Arabic letters.

In this research Unicode representation of Arabic characters in unicode transformation format-8 (UTF- 8) encoding scheme has been used to retrieve the Arabic characters from the Quran. This paper discusses an implementation of the information retrieval for the Arabic UTF-8 characters from Quran. Using processed data the occurrences of several already calculated words in have been verified

INSPEC Classification :C6110F, C613D, C150, C6180N, C7820

1. INTRODUCTION

Allah (God) has given miracles to all of his prophets from Prophet Adam (A.S.)(Alhay Salam) to prophet Mohammad (S.A.W.)(Sallallahu Alaihi Wa Aalehi Wasallam). Miracle means the tasks beyond the reach of human beings, Miracle are given to the prophets with relevance to their environment. At the time of Prophet Moses (Moosa) (A.S.), the magic was on the peak so he was given a scepter which turned into snake and engulfed the two magically created serpents of the Pharaoh, the time of Prophet David (Dawood) (A.S.) was the age of metal. People were found of using metallic objects. The God gave him the miracle that when he used to pick up a metal in his hand it becomes soften, Prophet Solomon (Suleiman) use to talk to animals and control the wind and in Quran different prophets (PBUH) are discussed with their miracles. The miracles are given to prophets (PBUH) with relevance of mental level of the people of that time. When Holy Prophet

* The material presented by the authors does not necessarily portray the viewpoint of the editors and the management of the Institute of Business and Technology (BIZTEK) or College of Business and Management Karachi, Pakistan & College of Computer Science & IT , Saudi Arabia

*Umm-e-Laila : ulaila2002@gmail.com
*Abdu Aziz : abdulaziz_uit@yahoo.com
*Fauzan Saeed : fauzansaeed@gmail.com
*Farrukh Aziz :

© JICT is published by the Institute of Business and Technology (BIZTEK).
Ibrahim Hydri Road, Korangi Creek, Karachi-75190, Pakistan.

(S.A.W.) started preaching of Islam, the people of that time were expecting the similar type of miracles that were given to the previous prophets but this time the miracle was in the form of a book, i.e. the word of God "Quran".

This paper will identify the Arabic letters through Unicode that is UTF-8 (Unicode Transformation Format-8) UTF-8 encodes each Unicode character as a variable number of 1 to 4 octets, where the number of octets depends on the integer value assigned to the Unicode character UTF-8.

2. MIRACLES OF QURAN

The biggest Miracle of Quran is that it remains as it is since its revelation. It will remain till the end of all creations (as promised by God). Quran comprises of Verses and Suras. Quran has just one-level of containment (the sura) above all verse level Kotb, Y. Gondow, K. Katayama, T. These revelations were made 1400 years ago on prophet Muhammad (S.A.W.). These can be further classified as Makki and Madini.. Makki means the one that is revealed in Holy city of Makka and Madini means the suras or verse that is revealed in Medina. These revelations were made by God according to requirements of that time but the beauty of the revelations is that they are still applicable and answers most of our questions. For example, all the students of science will agree that the motion of planets around the Sun is on a fixed path and portrays images as if the planets are swimming in the space.

3. SIGNIFICANCE OF NUMBER 19 IN QURAN

Numbers have there significance since the creation of this world from Greeks to present world. In Greek mythology there is a significance of number 7 like there were 7 leaders who marched against Thebes the city of 7 gates, Apollo's lyre is seven-stringed, Agamemnon offered to Achilles seven women skilled in handiwork, and seven cities Number Significant, (2008). Similarly in Bible there are significance of numbers as well, e.g. 1 indicates absolute singleness and unity The Prophecy Code (2008). There is a number in Christianity that is notorious as it relates to Third Anti-Christ the number is "666" sequence of three sixes some say it indicates the date of his birth, i.e. 6th of June 2006 and some say this will be the mark that Anti-Christ will bare etc. In numerology numbers from 0-9 are considered and there meaning is defined for instance '1' means personage or aggressor and '9' means Completion. Suppose a number that is equivalent of name and that number is 34 then this will be taken as 7 (3+4) similarly 19 will be taken as 1 + 9.

Which yields 10 and as numbers are defined from 0-9 it will be taken as 1. In Quran there is a significance of number 19, e.g. there are 19 verses that are multiple of 128 and 129 also the occurrence of word 'Allah' meaning 'God' is 2698 or (19 x 142 =2698) times again multiple of 19. There are 114 suras in Quran, which is again a multiple of 19 (19 x 6). The word "Wahid" in reference to God, in the Quran, is used 19 times The Prophecy Code (2008)].

Table 1:
Depicting significance of number 19

Parameters	Occurrences	Multiple of 19
Chapters in Quran	114	19 x 6=114
Verses in Quran	6346	19x334=6346
Bismalah occurrence	114	19 x 6=114
First revelation	Came as 19 words	19
Word 'Wahid' in Quran	19	19
Word Allah occurrence	2698	19 x 142=2698
The Quran	57	19 x 3=57
Last chapter of Quran	Has19 words	19

Similarly the first statement in Quran, i.e. In the name of God, Most Gracious, Most Merciful consists of 19 Arabic letters Mathematical Miracle of Quran (2008). In short there are several more occurrences of this mysterious number and as Quran is book of God it holds treasures in the form of information and guidance. Quran always yield its hidden treasures from time to time that's why God has called it one of the miracles that was given to prophet Mohammad (S.A.W.).

4. SOFTWARE IMPLEMENTATION AWE (ARABIC WORD EXTRACTOR)

There are many types of software that search Arabic words but nothing exists for specific word occurrence calculation. The basic intention of this work is to develop software that can extract specific words and count their occurrences from Arabic text. Having software that can count the occurrences will be helpful in verifying occurrences of 19 in Quran and for other purposes.

Software AWE is built in java that verifies the occurrence of word "Allah", "Basmalah Al-Rahman Al-Raheem" and others from Quran. For this unicode (UTF-8 encoded) Quran has been used. This has been downloaded from Tanzil Quran, (2008). The Unicode character pattern is used for representation of the word "Allah" to count its occurrence in UTF-8 Quran. Word Allah comes in two different patterns (Table 2).

Table 2.
Depicting patterns of Allah in Quran

Pattern 1	الله
Arabic	Unicode
ا	U0627
ل	U0644
ل	U0644
ه	U0651
ا	U064
ة	u0647

Pattern2	الله
Arabic	Unicode
ا	U0627
Space	U0020
ل	U0644
.	U0650
ل	U0644
ه	U0651
ا	U064
ة	u0647

Pattern 1 shows the occurrence of Allah 2667 times in Quran while pattern 2 shows its occurrence 31 times. Which again total 2698 depicted in Table 3. This has already proved manually before this.

Table 3.
Patterns of Allah occurrence in Quran

Pattern1	2667
Pattern2	31
Total	2698=19X142

As Allah word comes in different pattern therefore there is a need to design software that would only read the Arabic characters and neglecting the small vowels(Zabar, Zar, Pesh, Straight Alif, Double fatha, Double Kasra, Double Dhamma, Jazzam). Other wise it will

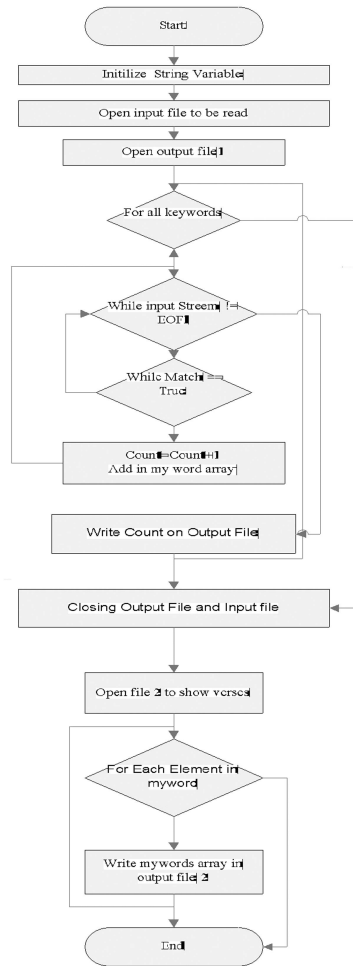
be hard to understand and design for different pattern and new finding cannot be calculated Our second verification counts on Bismalah, which occur 114 times. This includes only one pattern and because of this both approaches of word searching can be applicable but 2nd approach will be best i.e generic word searching. Table 4. shows pattern of Bismalah.

Table 4.
Depicting patterns of Bismalah in Quran

Arabic	Unicode
Pattern for $\text{بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ}$	
ب	\u0628
-	\u0650
س	\u0633
◌	\u0652
م	\u0645
-	\u0650
Space	\u0020
Pattern for $\text{بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ}$	Same as in Pattem 1
Pattern for $\text{بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ}$	
ا	\u0627
ل	\u0644
ر	\u0631
س	\u0633
-	\u064E
ح	\u062D
◌	\u0652
م	\u0645
-	\u064E
ا	\u0627
ن	\u0646
-	\u0650
space	\u0020
Pattern for $\text{بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ}$	
ا	\u0627
ل	\u0644
ر	\u0631
س	\u0633
-	\u064E
ح	\u062D
-	\u0650
ي	\u064A
م	\u0645
-	\u0650

There are different patterns of expressing a single word because of small vowels therefore a generic approach is used by eliminating the small vowels.

Figure 1.
Flow chart of AWE



The software first initialized the words to be searched, i.e Allah and Bismalah Unicode's of the words are to be initialized in a String array called Searchkeyword. It also declares an array list use to store the verses that hold the searched word. After initialization two files (streams) are to be open one for input reading from Quran and other is for storing the occurrence of words.

The software search each of the word initialized in Searchkeyword array from Quran. After every search it will increment in count variable and also store the verse in array list called Myword. Whenever a word searching is finished it will write the output occurrence of the word in the output file and moves to search next word store in Searchkeyword array. When all the words are searched, than the verses stored in Myword array are to be written into second output file.

The user has to select the input file from which he wants to retrieve the information. See Figure 2

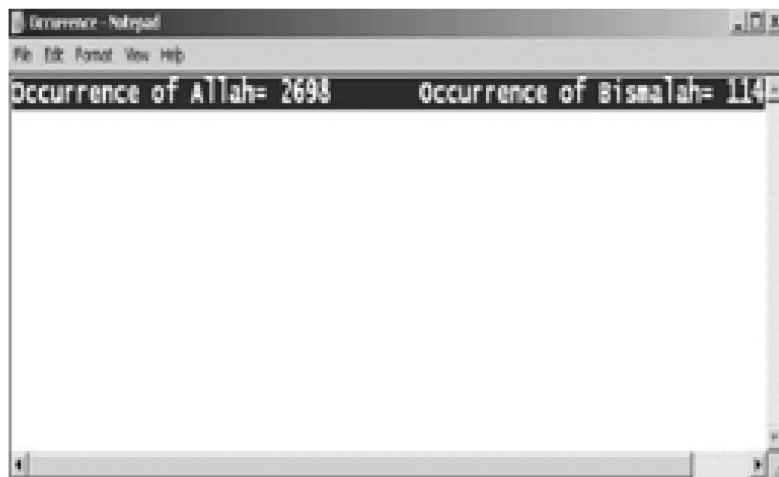
Figure 2.
Front-End of AWE.



5. RESULT AND FINDINGS

The AWE will produce two output files one will show the occurrence of particular words and other will show the verse that actually contain those words. Example in case of Allah and Bismalah, File 1 occurrence of Allah=2698 and Occurrence of bismalah=114. See Figure 3.

Figure 3.
Output file 1: Depicting occurrence of words



File 2 shows all the verses that contain the words to be search, i.e. Allah and Bismalah.

In our case it contains 2812 verse (it holds single verse twice and thrice because of a single verse could contain "Allah "twice" and "thrice"). Figure 4 shows the output contains in file 2.

Figure 4. Output file 2: Depicting verses contain the occurred words



6. CONCLUSION

In this paper, software AWE has been developed that showed promising results. It was tested only on some of the already proved occurrences of specified words from Quran.

It has been observed that there are different patterns for a single word because of small vowels, therefore a generic word extractor is developed that will only consider the word and does not engage in small vowels of Arabic.

AWE can help in future research to find out other occurrences of words from Quran that will be the multiples of 19. It can also help to find out the frequency of Arabic characters from different sources.

7. REFERENCES

- UTF-8 and Unicode Standards, (2008), <http://www.utf-8.com/>
- KOTB, Y. GONDOW, K. KATAYAMA, T. "A Case Study for XML Semantics Checker Model.", International IEEE Conference on System, Man and Cybernetics ,2003.
- NUMBER SIGNIFICANT, (2008) <http://www.forumancientcoins.com/cparada/GML/Questions Answers.html>.
- THE PROPHECY CODE, (2008), <http://www.prophecycode.com/numbers.asp>
- MIRACLE OF 19 IN QURAN , (2008), <http://submission.org/miracle/why19.html>
- MATHEMATICAL MIRACLE OF QURAN ,(2008), <http://submission.org/miracle/history.html>
- Quran, (2008), <http://Tanzil.info>