

An Innovative Life Measuring Application using IOT Technology

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Abstract— Breathe is the life source for any being. In our proposed model we take the concept of breathe to gauge the life span of a human being. LMA is an innovative tool which will predict the life span of a human being. This application will use the IoT technology to metric the inhale and exhale of person. Based on the counts of breathe in and breathe out, our system will generate a report which tells us life span of a person from time to time.

Keywords— Breathe, IOT, Automation, Life measuring, Wi-Fi

1. INTRODUCTION

Now a day’s technology and technological advancements come to our doorsteps. We are going to use the technology to measure the life of a person by gauging his/her breathe ins and breathe outs. From Birth to death every person takes ‘n’ number of Breathe in and Breathe outs throughout his life span. Our Puranas [1] said that breathing is directly proportional to one’s life aliveness. In our proposed model we take the concept of breathe to gauge the life span of a human being a healthy person used to take only 15 breathes per minute, 900 breathes per hour and 21,600 breathes per day or in 24 hours. A sick person takes more than 15 breathe per minute [2].

An ideal healthy person generally takes 15 breathes per minute. A holistic person or a yogi used to take less than 15 breathes per minute. Our Upanishads says that any person who takes very less number of breathes per minute (approximately 8 to 10 per minute) will have very long life (approximately more than 120 years). A person who takes more than 15 breathes (approximately 20 to 25 per minute) will have less life span. An idle person takes approximately 15 breathes per minute and lives for an idle life span. Example Tortoise takes 4 to 5 breathes per minutes and it lives more than 300 years where as Dog takes 30 to 35 breathes per minutes and it lives not more than 15 years.

II. METHODOLOGY

Based on the above concept we would like to come up with a new idea with an embodiment that counts human breathes per minute/hour/day. We are developing an embedded system which includes a sensor in it and also a firmware software that computes the breathe counts.

This count is transfer to a mobile app which generates report. We will use very tiny electronic system embedded which includes respiratory/breathe sensor with a tag that will be wear by a person to his/her neck. It looks like a neck chain with a pendent/locket to the chain or a necklace.

This intelligent sensor based necklace able to identify the breathe-ins and breathe-outs of a human in all times (24X7). This intelligent based sensory necklace will transfer breathe sensing count to a person mobile phone via Wi-Fi technology.

Table1: Breath Count Categorization of a Person

S. No	Breath Count(BC)	Type of Person (PT)
1	15	Healthy Person(HP)
2	8-10	Holy Person(HyP)
3	20-15	Sick Person (SP)

There is a specially designed app is installed in the mobile device [3] for this embedded intelligent sensory necklace. This device also collects the abnormalities (too much high breathe-ins or breathe-outs) and sends the data to the users mobile device.

At any instance of time the user can log on the mobile app to generate report on his/her respiratory system, it will also calculates the life span of that person based on the data available in that database for that time. By analyzing the above reports one can aware of this respiratory system. They can modify/change their life style based on the analyzed reports.

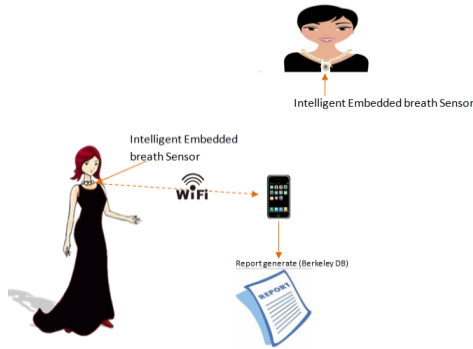


Figure1. Block Diagram of Life Measuring Application

III. ALGORITHMIC APPROACH

Step1: Read Breath count (Bc) from sensor kept in person's tag around His/ Her Neck

Step2: Checking Breath count

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If (Bc > 15)
  Then Display "Sick Person"
Else if (Bc < 15)
  Display "Holistic Person"
Else
  Display "Healthy Person"

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Step3: stop

IV. DATA BASE DESIGN

We will create a light weight database, self contained library packages with our any server with little code in Berkeley DB. This Berkeley data base is able to store different data types like relational, objects, key value pairs and documents. It is compatible with Android OS and iOS mobile operating systems [4]. By using this DB we can generate reports on user's respiratory systems

Our idea model is definitely improved the life span & life style of human beings. It will calculate life span of a person (or) how many years he is going to live on this planet.

V. HYPOTHETICAL RESULTS

Based on the algorithmic approach, this method is very suitable to assume the human life span. It is predicted that in most of the cases of pleasantness in characteristic it is observed that they have very good life span. It can be approximately 90 to 110 years. It is predicted that in most of the cases where the character and attitude is normal and non controversy then they have an average life span. It can be approximately 60 to 75 years. The third category where their character and attitude is very abnormal with ease of anger and anxiety may have the life period just 40 to 60 years or may be less than that.

VI. CONCLUSION AND FUTURE SCOPE

This is very innovative tool. With the help of knowledge available in Indian scriptures and Internet of Things kind of technology we designed and developed this system. This innovation got approval for patent filing. The predicted results are supported the opinions of various users of this system. With minimum financial support we have built this system model. In the near future the existing system will undergo of enhance as well adaptive for more efficiency.

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