

Make Us Survive - Report for Imagine cup

Overview

There are lots of dangerous diseases in the world, for which natural cures exist but only a few people have the knowledge of them. Our solution aims to help people in medical threats. We think that people are willing to help each other by sharing knowledge of natural cures. Our program **Make Us Survive (MUS)** is the web service that helps people to come together. MUS allows people to view and add new natural cures for different diseases.

This document contains description of the software made to for Imagine Cup. From the eight United Nations millennium development goals our solution tries to solve the “**Combat HIV/AIDS, malaria and other diseases**” and “**Develop a Global Partnership for Development**”.



Project group and contact information

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The Idea

There are lots of dangerous diseases in the world, for which natural cures exist but only a few people have the knowledge of them. The idea is to share knowledge of those cures and make the information available for everyone and allow people to ask for guidance.

Problem description

Island Life
By Claudia Coll

Battling the Wildlife

The BVI is generally a benign place. I visited Costa Rica last year and was impressed with the amount and toxicity of the snake population there. On Tortola, our snakes are small, dull in pattern and non-toxic. We have scorpions here, but unlike the ones in James Bond movies, they are not lethal, and the same is true of our spiders. It seems, that the BVI's most dangerous form of wildlife these days is the mosquito. And it's not because they are particularly poisonous, although if you are bitten by the aedes aegypti, which carries dengue, you can get very sick... no, it's their sheer numbers. With all the rain that we have had recently, mosquitoes have become a fact of life.

Recently, I found mosquitoes in my cistern and I called the Department of Environmental Health. First, I was offered guppies to eradicate the problem, but I didn't like the idea of my cistern becoming a giant fish tank. In that case, the official suggested doing nothing except screening the outlet pipe. They only have a short life cycle he told me, and if they can't get out (or back in), they will soon die off. Fine, except for the thought of a cistern filled with dead mosquitoes.

On the positive side, there are many interesting mosquito facts: there are 3,500 species of mosquitoes, in all, they can fly one to four hours continuously, and they actually feed off nectar and not blood. In perhaps, a misplaced sense of maternal duty, it is the female who bites, since she needs your blood to nurture her eggs. Mosquitoes are nocturnal, so that's why you find them out mostly at night, dawn and dusk. Also, contrary to popular opinion, both the male and female mosquito buzz; the sound is caused by the beating of their wings. You hear the female more often because she's the one flitting around your ears in hopes of zeroing in on your blood. Having a fan blow on you as you sleep, does repel mosquitoes, though. The insects are attracted to the carbon dioxide we expel and the air movement caused by the fan helps to dissipate it. It's not just carbon dioxide that attracts them unfortunately; scent, sweat, bright colors and even movement are also big draws. Repellent, which masks our scent can help, but in reality, it seems that we really don't have a chance against the critters. It's a shame, but a drought may be the only solution to our problem.

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Issue ... "to hang around idly" or "to go out as the issue." Source: The Dictionary of Virgin Islands English Created by the late editor and historian Lilo Kelly. The Little Times brings you all the news about when and where in "Time" in the British Virgin Islands.

Quezon City, Manila, Caloocan under watch for dengue

By Beverly T. Natividad, Doris Dumaleo
Philippine Daily Inquirer
First Posted 21:25:00 01/22/2008

MANILA, Philippines -- Three areas in Metro Manila -- Quezon City, Manila and Caloocan City -- are closely being monitored by the Department of Health because of an increase in the number of dengue cases.

Yolanda Oliveros, director of the National Center for Disease Prevention and Control, said 380 dengue cases were recorded at the San Lazaro 'Hospital' so far this month, which represented a 141 percent increase from the 158 recorded in January 2007.

ANATOMY OF A KILLER

Dengue, a viral disease, is a transmitted by *Aedes aegypti*. This mosquito breeds in stagnant fresh water and feeds during day

The *Aedes aegypti*
The disease is spread by *Aedes aegypti*, a day biting mosquito that prefers to feed on humans

How it spreads:

- 1 The virus attacks and enters cell for reproducing. Once in blood, it targets liver and enters liver cells
- 2 The virus starts multiplying itself and starts targeting nucleus of the cells
- 3 Blood cells burst, releasing chemicals that cause chills, fever and pain

Suckers anticoagulant in saliva that allows to maintain the flow of blood

Symptoms

- Fever
- Severe headache
- Pain behind the eyes
- Muscle and joint pain
- Loss of sense of taste and appetite
- Nausea, vomiting
- Rashes

Precautions

- Prevent mosquito breeding
- See a doctor if high fever continues for more than 24 hours

Have you ever heard about the Dengue (Dingi) mosquito?

Dengue is the most common mosquito-borne viral disease of humans that in recent years has become a major international public health concern. Globally, 2.5 billion people live in areas where dengue viruses can be transmitted. During the 19th century, dengue was considered a sporadic disease that caused epidemics at long intervals, a reflection of the slow pace of transport and limited travel at that time. Today, dengue ranks as the most important mosquito-borne viral disease in the world. For instance Philippines, is one of the top countries that face this mosquito virus. Thousands of people die without having the opportunities to go under proper medication and treatment. This is because no particular medicine or vaccine is developed for this kind of disease.

However, there are people living in the mountain and in the heart of the forest, who are aware of a special kind of plant or natural medicine and whose experience is so much important for other people. They can share the medicine to other people, but they hardly find a way to do that. Not only

in the Philippines, but also in other countries of world, the same disease occurs. Dengue is not the only disease people do not know the cure for. The problem is: how to connect the existing information about natural cures with the people needing it.

Solution

Our solution to this problem is web-application that helps people to share their knowledge about natural cures. The application is not only designed for this kind of mosquito, but also for any diseases that can be found in the application. For instance, people who have been experiencing Snake bites can also visit the website and if no information is available about Snakes, then the person can easily make a new category of Snake and share his idea and feedback into it. Different users from different countries can easily visit the web application and select the country, then all the information based on the selected country is shown.

This web application helps to solve dangerous diseases in the whole world, by making communication easier between patients and people who have the cure and who live in rural areas and who will give the feedback and recommend natural medicines. This web based application, provides those people who have experienced the disease to share their experiences to the world before and after using the natural cure. One of the very essential information they can share is the medicine they have been taken to fight with the disease. This critical information can help thousands of people who are suffering from the disease to survive.

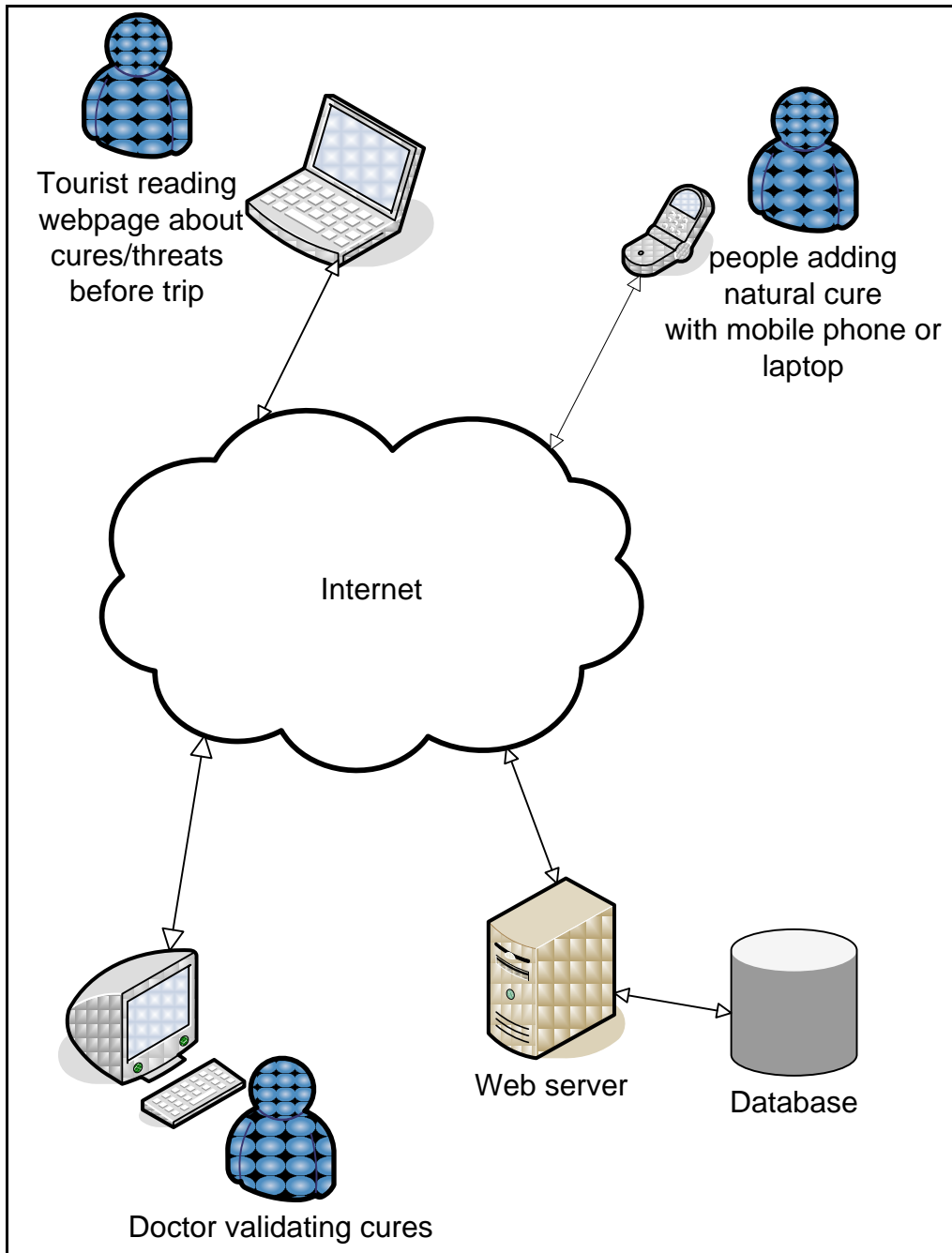
This application also gives the opportunities to authorized people to validate the information posted by different people in a specific country. This is done, while the Doctor is given the privilege to review the comments and update them. If a comment is not valid, DR can delete it from the list.

Aside from those, social networking sites such as Facebook, Twitter are the big help to introduce this web application and spread the information out to all people around the world.

Software description

The architecture of system is shown in the picture below, and also some of the user roles are defined. The MUS-service is provided via basic web server setup that includes the server side and database. The MUS software is basic Silverlight application that uses web services and LINQ to access SQL-database. There are three types of user roles in the system, viewers of data, sharers of

the data and administrators. Like in the picture viewer can be for example tourist who wants to have knowledge about possible diseases at a holiday location. Adding information to the system can be done using any kind of computer or phone. Also in the system user can have administer privileges to make sure correct information is shown at the web pages. Validating cures could be done by a real doctors and also by community and discussion.



User roles and the architecture of the Make Us Survive

Features implemented by now:

- Adding new diseases
- Graphical user interface
- Posting and viewing disease information
- Posting comments and cures
- Basic user functions: login, logout and registration

Features to be implemented in the future:

- Posting photo of disease or cure
- MMS-compatibility
- SMS-compatibility
- Maps using Bing. Viewing cures in different countries by choosing the country from the map
- Automatic translations between different languages
- Facebook connection

The software was done using technologies:

Visual Studio 2008 (C#, .NET)

Asp.NET, Web Services

Silverlight

Expression Blend 3

Live Services (Bing maps and Live ID)

We would like to take part into these completion categories:

- Software design
- Interoperability

Poster:



Infection
Virus
Disease

Are you suffering from any disease?
It's time now to say goodbye to all sufferings

Visit **Make Me Survive** to Survive

Make Me Survive is an online
Web application that provides you any
Information you need about any disease you have ever
heard of

Live Healthy

