



Code Camp .NET 2010

Communication Laboratory

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Make Us Survive Software Design and
Implementation

Feb 25, 2010



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. The idea is to share knowledge of those cures and make the information available for everyone and allow people to ask for guidance. Make Us Survive allows people to view and would add new natural cures for different diseases. In every country system provides a special account to the authorized doctor who is expert enough to evaluate the cures posted by different people from the particular country. This document contains description of the software we 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”-theme.

Project group and contact information

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The Idea

The whole Idea arises, when one member of the team express her feelings about what she saw about a dangerous kind of mosquito when she was living in the philippines. People in the philippines suffer too much when they are bitten by that mosquito. There is no particular medicine to cure this virus. Whoever is stronger can struggle with this illness, and others easily die after 2 days without having the chance of going under any treatment and medication.

Aside from that, 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

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

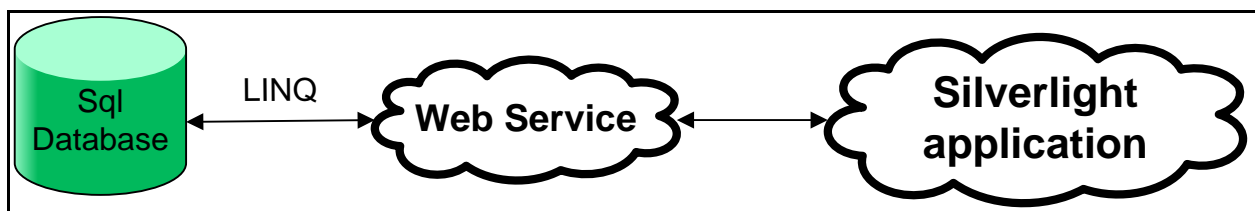
Our solution to this problem is web-application that helps people to share their knowledge about natural cures. The application is not only designed for this kind of mosquito, but also for any diseases that can be found in the application. For instance, people who have been experiencing Snake bites can 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.

Software description

The software is basic Silverlight application that uses web services and LINQ to access SQL-database. The simple architecture is shown in picture below.



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
- Map. Viewing cures in different countries by choosing the country from the map
- Automatic translations between different languages

Used techniques

The software was done using technologies listed below.

- Visual Studio 2008
- .NET, Web Services
- Silverlight
- Expression Blend
- MAP

Poster:



Infection



Virus



Disease

Live Healthily

