THE SOFTWARE DESIGN AND IMPLEMENTATION OF INFORMATION SERVICE FOR THE SPREAD OF DISEASE OUTBREAKS

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Abstract

Outbreak is a general term for the spread of disease occurrence in the wide areas and in many people. An outbreak of disease can not be stopped, but the number of victims could be reduced. At this time there is no media which could provide the up to date information about an outbreak.  

In this book is designed an application which could form community vigilance against outbreaks of disease spread. By using the report of health centers on the number of patients, a visualization about disease outbreak will be gained.  

Health center supply data via the desktop application based on Windows Presentation Foundation. Desktop application is linked with the Remoting server. Data is processed on the server and viewed through ASP.NET with the help of Bing Maps visualization as the spread of epidemics in an area. Visualization formed in this application is the radius of the spread and victims of the disease in an area.  

This application is optimize the using of remoting.NET to bridge the communication of data between application, features Bing MICROSOFT Maps to visualize the distribution of the radius of an outbreak in the region, the script manager for ASP.NET AJAX on the client information that can update in real time, and the animation extender to optimize the display of information.

Keyword: Bing Maps, spread of epidemics detector, Windows Presentation Foundation, ASP.NET, AJAX.
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