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Innovative Software in Bing Portal using Software Specification

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ABSTRACT

A good software is a software that is reliable, usable, defect free, cost effective and maintainable. The software and technical implementations itself are used to monitor and evaluate the cost and its high product maintenance cost, combined with the market cost, testing cost, development cost, additional tools of the software for development. Several best practices for the process optimization of software maintenance activities can be applied, such as ASL/BISL,CMMI and ITIL. All of these focus on the optimization of processes. The cost of software maintenance has been rising steeply. There are several reasons for this. Incomplete documentation, shuffling of personals and further, systems tend to become more increasingly complex. In this study, we work in the development of a Windows Store Software that presents with new additional option in a Bing map which will make to add a push pin, get placed to the location that the end-user are in need instantly. XAML has been used to create a modern and animated graphical user interface and the map system is achieved using a web service. The Bing map presented on the Software is the latest measurement data, max/min data, and trend data with inbuilt latitude and longitude values across all locations in India. This additionally holds new capabilities such as less in size, store and share pushpins instantly in maps, the encryption complexity are reduced and specified area can be tracked instantly. The final version is deployed in cloud with help of Windows Store and can be downloaded freely.

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INTRODUCTION

Geoference and Geolocation are concepts in Windows8 application development environment which allows an application to define a radius around a geographical point of interest and have the system to alert the application when the device is running or enter or exists that area. These are added, with the help of, adding the reference Bing map WPF control. The Bing map is integrated with the added features and using the Bing key ,the locations are retrieved . This software is used to track the current location, adding custom pushpins to important locations, buttons to get instant locations and current longitude and latitude position. It reduces the working pattern involved in Bing portal.

Cloud computing:

Cloud computing is the use of computing resources (hardware and software) that are delivered as a service over a network (typically the internet). The name comes from the common use of a cloud-shaped symbol as an abstraction for the complex infrastructure it contains in system diagrams. Cloud computing entrusts remote services with a user's data, software and computation. Cloud computing is a model for enabling convenient, on demand network access to a shared pool of configurable computing resources (for example, networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service-provider interaction.

It's divided into three types namely,

1. Infrastructure as a service.
2. Software as a service.
3. Platform as a service.

A. Infrastructure as a service:

In the most basic cloud-service model, providers of IaaS offer computers - physical or (more often) virtual machines - and other resources. (A hypervisor, such as Xen or KVM, runs the virtual machines as guests. Pools of hypervisors within the cloud operational support-system can support large numbers of virtual machines and the ability to scale services up and down according to customers' varying requirements.) IaaS clouds often offer additional resources such as a virtual-machine disk

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image library, raw (block) and file-based storage, firewalls, load balancers, IP addresses, virtual local area networks (VLANs), and software bundles. IaaS-cloud providers supply these resources on-demand from their large pools installed in data centers. For wide-area connectivity, customers can use either the Internet or carrier clouds (dedicated virtual private networks). To deploy their applications, cloud users install operating-system images and their application software on the cloud infrastructure. In this model, the cloud user patches and maintains the operating systems and the application software. Cloud providers typically bill IaaS a service on a utility computing basis cost reflects the amount of resources allocated and consumed.

B. Software as a service:

In the SaaS model, cloud providers install and operate application software in the cloud and cloud users access the software from cloud clients. Cloud users do not manage the cloud infrastructure and platform where the application runs. This eliminates the need to install and run the application on the cloud user's own computers, which simplifies maintenance and support. Cloud applications are different from other applications in their scalability which can be achieved by cloning tasks onto multiple virtual machines at run-time to meet changing work demand. Examples of SaaS include: Google Apps, Microsoft Office 365, On live, GT Nexus, Marketo, Casengo and Trade Card.

C. Platform as a service:

In the PaaS model, cloud providers deliver a computing platform typically including operating system, programming language execution environment, database, and web server. Application developers can develop and run their software solutions on a cloud platform without the cost and complexity of buying and managing the underlying hardware and software layers. With some PaaS offers, the underlying computer and storage resources scale automatically to match application demand such that cloud user does not have to allocate resources manually. Examples of PaaS include: Open Shift, Google App Engine, Windows Azure Cloud Services and Orange Scape

Preliminary concepts:

The software cost is high due to the difficulty in understanding existing systems when performing maintenance tasks (i.e., adding features, removing bugs, etc.). One of the root causes is that software products often come with poor, incomplete, or even without any documented specifications. In an effort to improve program understanding. (CloSpan, 2003) Iterative pattern mining outputs patterns that are repeated frequently within a program trace, or across multiple traces, or both. To reduce the number of patterns and improve the efficiency of the algorithm, (CloSpan, 2003) Mining closed iterative patterns is used, i.e., maximal patterns without any super pattern having the same support. (CloSpan) Comprehensive Incremental Sequential Pattern mining- CISpan supports both closed and complete incremental frequent sequence mining, with all kinds of updates to the database. CISpan's performance on databases transformed from 20 consecutive versions of Linux Kernel source code. On average, CISpan outperforms the non-incremental CloSpan by 42 times. (A Survey on the Software Maintenance Process, 1998) The problems of a potentially exponential runtime cost and a huge number of reported rules have been effectively mitigated by employing search space pruning strategies and elimination of redundant rules.

In our work, to technically deepen research on iterative pattern mining, mining iterative generators is introduced, i.e., minimal patterns without any sub pattern having the same support. Iterative generators can be paired with closed patterns to produce a set of rules expressing forward, backward, and in-between temporal constraints among events in one general representation. We refer to these rules as RR rules (Representative Rules). We add inbuilt latitude and longitude plots for specified areas. Reducing the working pattern involved in Bing portal by designing a software for adding buttons for unregistered place.

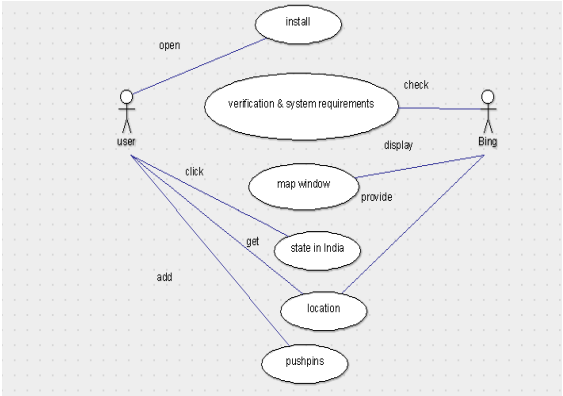

Fig. 1: Use Case Diagram.

Proposed method:

"Microsoft Geomap" this software has been driven with help of azure services which reduces big data complexity and less in size."Geomap" has a new platform of where it is built with help of Windows Azure which unlock Hadoop with no hassel. It allows to quickly build a Hadoop clusters in minutes when needed, and delete it when the work is done. Choose the right cluster size to optimize for time to insight or cost.

A. Creating a Bing Maps Account and Key:

Bing Maps account and a Bing Maps key has to be created. A Bing Maps key is a unique identifier that is used to authenticate the application requests to the Bing Maps services.

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1) Create a Bing Maps Account:

The Bing Maps Account Center at https://www.bingmapsportal.com is used to create the account and Windows Live ID is used to login. Along with this ,informations such as Account name, Contact name, Company name,Email address,Phone number and Bing Maps API terms of use.

2) Creating a Bing Maps Key:

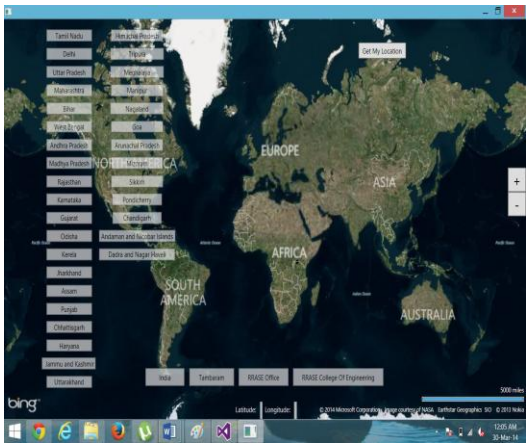
The Bing Maps Account Center at https://www.bingmapsportal.com and sign in using Windows Live ID you used to create your account. The following information for the application that will be used in the Bing Maps key, Application name, Application URL, Key type[Select the Basic key type]. The key and application types chosen determine the usage limits. The Trial keys expire after 9 days and Enterprise Keys require a Bing Maps license. Application type[Select the Windows application type].

B. Loading Bing map control:

The Bing Maps Windows Presentation Foundation (WPF) Control combines the power of Windows Presentation Foundation and Bing Maps to provide an enhanced mapping experience.

C. Display a Map:

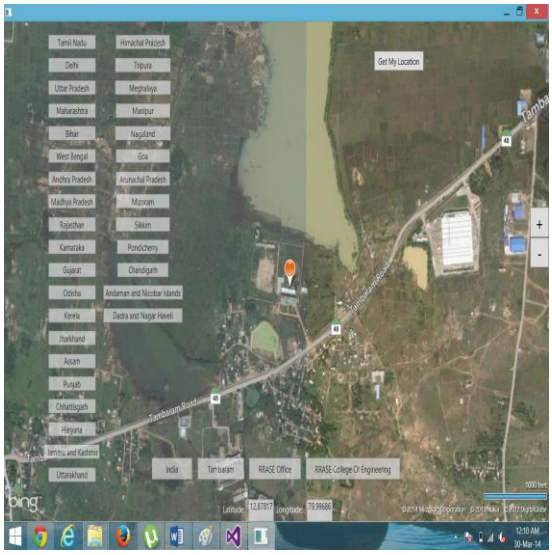
The WPF map control DLL has to be referred and is used to display the default map in the application. The web services is used to browse to the location of the Bing Maps WPF Control installation. Typically, the control is installed in the Program Files or Program Files (x86) folders on the drive that contains operating system. The Microsoft.Maps.MapControl.WPF.dll file is selected from the Library folder to add the map control assembly to MainWindow.xaml.



D. Adding pushpins to map:

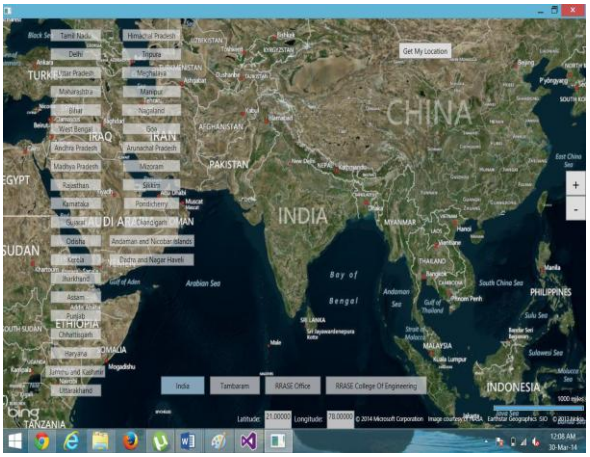
Adding pushpins to the map through a mouse double-click event. A Map Layer is added to the map, and one or more pushpin images are added to the layer when you double-click on the map. The point of the pushpin image is aligned with the mouse pointer so that it correctly represents the map location that was clicked.

Application Insights are added in the Geomap app which allows to tack the app and monitor it so that it will reduce the capacity of software maintenance cost.This tracks the performance of the app.This can be applied to any application ,wheather or not it runs in Azure.



E. Buttons to track map locations:

The Bing Maps WPF Control animates between different map views. It navigates between these locations: India, Tamil Nadu, Tambaram, RRASE Office and RRASE College of Engineering. As the map moves from location to location, the center point of the current frame's map view is updated in the Latitude and Longitude text boxes. The animation of the transition by selecting the desired value from the drop-down menu.



Conclusion:

A novel approach to reduce the software product maintenance cost is designed, reduces the loading time, size and cost of the developed software is less than the existing software. In this software,

encryption complexity are reduced, specified areas can be easily tracked and adding custom pushpins. Further we can also reduce the software product maintenance cost by developing a SEO or other kind of software's with the help of existing software and its maintenance reports.

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