Satellite Information System

ABSTRACT

This information management system comprises of modules that support the tracking the status of satellite data products, building forms and reports.

SATELLITE INFORMATION SYSTEM: This is comprehensive software develops the complete solution for the needs of people working on satellite information. This application gets the information in the form of images from different satellite sources.

Information from different satellites such as information related to the weather, security, climatic conditions, route maps etc.

SATELLITE INFORMATION SYSTEM takes all the information from all the satellites and stores the information accordingly. This application is going to separate the data and stores it accordingly, such as information related to weather is stored separately and information related to other categories is stored accordingly. That stored data is again presented in the form of different reports basing on the request given by the user.

This application is going to store the huge data and that information is available at the time request. User can have the information related to any day at any point of time. Information of previous day, month or year can be available. Admin organizes the data which comes as an input and user can access the data in the required statistical report. User is restricted in using the data basing on the permissions given by the admin.

How does it work? It takes the data from different satellites and stores it accordingly and that information is managed by the admin. User is going have the information in the form of reports whenever it is necessary. The advantage of this application is each and every image got from the satellite is given a unique id and user can have the information of that particular image basing on that id.

EXISTING SYSTEM:

Generally in NRC the information maintained is done manually. The satellite images which are available are in large quantity. The number of employees is more and the usage of the data is in large quantity. The data whichever is required by the employee will be taken that information is stored or maintained manually.

There are many departments and many levels of employees; they are supposed to access the information according to their department and levels of their designations. The thing what is there is the information stored is very large and the information is stored department wise. The description of each and every image has to store and that has to be maintained separately.

PROPOSED SYSTEM:

• In this system images are uploaded easily through website.

• The information are maintained easily through department wise.

• It supports large quantity images are uploaded easily.

• User can access the data in the required statistical report.

MODULES

• Admin

• User

Admin:

This module deals with complete information available in this application, create the user, granting the permissions to the user, denying permissions to the user or to delete any particular user. Admin mainly deals with the information of the satellite images.

All the products (Images) which are forwarded from the satellites are stored in a server; admin takes each and every image from the server and segregate them. Admin classifies each and every image to which department that particular image belongs to.

After segregating the images or information admin adds the description of that particular image and saves the same to the database in a department wise. Admin can also monitor the users by restricting them not to access the other information which is not related to them. Admin will have the complete rights over the users.

The restriction in accessing the information is done basing on the level of the user and that is done by the admin. Admin can create or destroy the user. Admin creates the user basing on the department and level of the user and then grants the permission to the user basing on their levels.

USER:

Users need to register with the site and after registration he can find the information About the satellite and he can observe Information from different satellites such as information related to the weather, security, climatic conditions, route maps etc.

Software requirements:

• Language : C#.NET

• Database : SQL SERVER 2005

• Operating System : Window XP

• Technologies : ASP.NET, ADO.NET

• Web/Application server : Internet Information services (IIS)

Hard ware requirements:

• Pentium processor : 233 MHZ or above

• RAM Capacity : 512MB

• Hard Disk : 40GB