1 Introduction

Human mind remains pre-occupied with so many thoughts that the attention for some particular events or information may be missed out for such involvement. The events or information can be very crucial for the person, but because of being under various circumstances and stressful life style, these can go without any attention. This might result in several losses, such as, financial, personal, or social.

In today’s world, the Internet undoubtedly plays an important role which influences the lives of people at all ages irrespective of jobs, careers, positions in a company etc. All have something in their lives or works that are highly dependent on various Internet web services. Such as, electronic mail or e-mail, online banking, social networks, personal interests etc. People now-a-days read news and get weather reports from different websites rather than watching the television. Students and faculty members get important updates for their research from the vast collection of information provided in different websites. They can also know about the research conducted by other people in other universities. Internet has improved the communication through messengers, different social networks formed in web services like Facebook, Twitter, different professional networks, such as, LinkedIn etc. Whenever anyone needs any information about anything, it could be related to shopping, banking, research; studies and so on can simply run the desired string in any search engine which eventually generates a long list of search results from which the desired information can be retrieved easily. The search engines have become such an integral part of our lives that ”google” has now become a buzzword. In a summary, Internet has made everyone’s life easier from every aspect.

People now-a-days manage most of their important works through different web services provided by the Internet. Appropriate and important events and news should be notified to them if they are busy elsewhere and the attention has been occupied by something else. Such notification can help them not to miss a deadline, inform them the information of their interests and overall make their lives easier.

2 Requirements

In this project, we design such a system which sends notification to the registered users of any information of their interests. The information can be an e-mail received from a special person, information/news updated/published in a particular website, events in social and professional networks through Facebook, Twitter, and LinkedIn etc. The notification that is sent can be of various forms. It can be an e-mail, a message or phone call through wireless telephone service or a pop-up window in a personal computer etc.

For the functional requirements of the system, the users should be able to sign up and obtain their authentication information. Using the authentication information, the user logs into the system to use different services provided by the system. After successful login, the users should be able to provide their preferences of information and events which they are interested in and
to be notified. The interest of notification can be of various categories, like, e-mail notification, notification from networking sites, notification from various websites, such as, banking, news, blogs, related to hobbies, websites containing favorite songs, videos etc. The users should be given proper interface to provide precise information so that system can pull those from respective web applications. There should be also services to modify, delete or customize some of the events as specified by the users. After the events are specified, the system should look for the events as described by the users continuously so that whenever there are some updates about the events the system is able to capture those and send notification to the users. The system should be able to send notification in multiple ways, such as, popping up a windows if the user is logged in, sending a text message or call at the user’s cell phone etc. The notification should be sent through the preferred way set by the users during event initialization.

As far as the non-functional requirements are concerned, the security of the system should be maintained. The users must obtain proper authentication information during signing up before using the system. The usage of the system must be maintained by proper authorization. The privacy of the users should be maintained so that no user can see the events set and authentication information used by the other users. All the information of individual uses should be kept confidential.

3 Validation

Validating the requirements of software system is very crucial which states whether the right system is being built or not. We can validate the system by prototyping. We develop the system in Agile software development process in which we always have a working system in hand. We deploy the system after it is developed at the end of each iteration and get the feedbacks of the users after they have used the system. They can report us back what are the functionalities that have been missing from the system, what are the features that are incomplete, the easiness of the use, their satisfaction about the system as a whole etc. Based on the users’ feedback, we can modify the system in the next iteration to incorporate the changes necessary to build the right system.