Abstract

There has been a growth in the software for offering the users to share content based on their native language. Now most of the Mobile operating systems offer Latin language support through which the user can input text in Latin languages, these include recently added Japanese, Chinese, Korean, etc. For the users of Non-Latin languages like Devanagari script and writing system, no input method solution has existed so far in Android Mobiles with full functionalities.

The use of native language for sharing views in writing has experienced explosive growth around the world in the past several years. This has been the case because of the rapid growth of Internet services round the globe. In developing countries, in particular, internet and wireless mobile services have proved to offer a unique opportunity to service a wider subscriber base in the shortest possible time previously deemed unattainable. In addition to wireless voice, wireless data services have proved time and again to be of immense value to subscribers as well as wireless operators. Among these valuable wireless data services, now a-days social networking based websites have proved to be an asset to the users for sharing their thoughts and ideas.

An Input Method Enabler (IME) is a program that allows a user to enter text by converting user keystrokes into characters. IME can be developed to interpret keystrokes as characters for a given language or script. Therefore, there is a very visible and pressing need to develop an IME for Non-Latin languages. Developing such an application, however, requires the scholarly investigation and eventual solution of a number of technical challenges. These challenges vary from developing a virtual keyboard for particular language to designing data structure and algorithms for storing and maintaining system and user dictionaries.

This project relates to the development of IME for different Indian languages with functionalities like progressive word prediction and contextual word prediction. These applications are developed on android platform as service at Reverie Language Technologies, Bangalore. Successful testing of these applications has been done on different Mobile phones and Tablets (Samsung, Motorola etc) having Android Operating System. Currently Reverie language technologies, is actively marketing these apps to their clients (like Datawind for Ubislate and Aakash tablets).