DESCRIPTION

Title of Invention

A system and method for sending and receiving ~~instant~~ messages using mobile phone devices irrespective of whether internet connection is available or not, called Cooee Messenger.

The Technical Field

The technical field involving the invention is the sending and receiving of messages over mobile telecommunication devices and through a web portal.

The Prior Art

The current state of the art in ~~instant~~ messaging is that when there is a need to send short messages, documents, pictures or images, we use messaging applications. There are a number of messaging applications in the market today, examples of which are WhatsApp, Telegram etc.

Technical Problem and Solution

However these OTT ~~messaging~~ applications work only when both sender and receiver have the same application and when internet connection is available. ~~there is internet connection between the two parties. Where internet connection is not available, messaging is done using telecommunication native SMS, which can be expensive.~~ Cooee Messenger (CM) overcomes this limitation by allowing sending and receiving of messages even if the receiver does not have the application and even in the absence of an internet connection.

This is achieved through the Smart Message Routing Engine (SMRE). It automatically selects the most cost effective and fastest means of sending messages based on user settings, taking into account the following:

- Balance of free SMS from the Telephone Company (Telco)
- CM credits available

Figure 1 illustrates the flow and logic of the SMRE.

In the diagram two terminologies are used:

- “Online” meaning Internet access is available.
- “Offline” meaning Internet access is NOT available.