**REQUIREMENT ANALYSIS (SRS)**

**Requirement specification**

The Compucom Tracker is a GPS tracking system designed for tracking the location of the employees of an organization. The designed system shall provide multiple display view to the user, display live location of the employee’s device.

Registered user and unregistered user are categorized differently and user is grouped under the departments. The history of the location shall be kept in its database. The users can be intimated to activate the application or give instructions using SMS or notification facility

**Server side requirement:**

The system shall provide the users a detailed description of the employee location and maintains the history in the database. The various modules on the server side are:

**User Registration**

* The system shall be able to create a new user and allow the user to access the system.
* The system shall be able to update the information regarding a specific user, and can even delete a user.
* When the user registers, a request should be sent into the system for approval.

**Track Registration**

* When the users register themselves on the Compucom tracker through their mobile phones, a request shall be sent to the system.
* The system shall be able to register the user device to track their location.
* The system shall be able to remove a user device.

**Live Tracking**

* The system shall display the current position of the active devices on the map.
* The system shall have the option to display the location of the device in three different kinds of views i.e. Google Earth, Satellite and Map.
* The location of the device shall be stored in the database to maintain the history.

**History Module**

* The system shall maintain the trip history of the device.
* There shall be an option to specify the duration whose history would be shown.
* The path of the device for the selected trip dates shall be displayed on the map.

**Dashboard for User Status Tracking**

* The system shall be able to provide the last active date and location of the user devices.
* The system shall provide a facility to filter the report by different group names.
* The system shall show the users on the basis of last active day.
* The system shall show the last active location of the user in the dashboard.
* The system shall provide a SMS and Notification option to intimate the user to switch on their GPS and application for tracking.

**Trip Report**

* The user shall select a device whose trip report he wish to see.
* The system shall display the last location the device selected by the user.
* The user can specify the report duration to the system for report generation.

**SMS Integration**

* The System shall be able to send intimation to the user, using a paid SMS for enabling the tracker in user device.

**Mobile Notification**

* The system shall be able to send a notification to the device that is being tracked.
* The system shall edit the message which has to be sent on the device.

**Client Side**

The client side shall have a Mobile Application in their mobile phones for tracking of their location.

**Android App (Basic) Module**

* The application shall ask the user to enter their mobile number for communication and tracking purpose.
* There shall be an option to enable or disable the tracker.
* The GPS of the device should be prompted to be enabled.
* There should be an option for selection of the time interval after which the location is tracked.

**Notification Display Module**

* When the system administrator sends a message to the user device via dashboard it should appear as a notification in the user device.