**Project: Compucom Tracker**

**Design Document**

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**Revision History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Ver.** | **Date** | **Author** | **Reviewed by** | **Reason** |
| 1 | Draft | 03/02/2017 | Rajesh Kumar Arora | Manoj Agrawal | New Document |
| 2 | 1.0 | 07/02/2017 | Rajesh Kumar Arora | Manoj Agrawal | Improvement |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**User Management**

1. **gpslocations**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Datatype** | **Size** | **Nulls?** | Constraints | | **Description** |
| GPSLocationID | int | 10 | No | PK | | Auto |
| lastUpdate | timestamp |  | No |  | |  |
| latitude | decimal | 10, 7 | No | |  |  |
| longitude | decimal | 10, 7 | No | |  |  |
| phoneNumber | Varchar | 50 | No | | Index |  |
| userName | Varchar | 50 | No | | Index |  |
| sessionID | Varchar | 50 | No | | Index |  |
| speed | int | 10 | No | |  |  |
| direction | int | 10 | No | |  |  |
| distance | decimal | 10, 1 | No | |  |  |
| gpsTime | timestamp |  | No | |  |  |
| locationMethod | Varchar | 50 | No | |  |  |
| accuracy | Int | 10 | No | |  |  |
| extraInfo | Varchar | 255 | No | |  |  |
| eventType | Varchar | 50 | No | |  | Time of Creation/updation of the record |

1. **pt\_position**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Datatype** | **Size** | **Nulls?** | Constraints | | **Description** |
| Id | int | 11 | No | PK | | Auto |
| Unit\_id | int | 11 | No | Index | |  |
| datetime | datetime |  | No |  | |  |
| datetime\_received | datetime |  | No |  | |  |
| lat | double |  | No |  | |  |
| lon | double |  | No |  | |  |
| alt | double |  | No |  | |  |
| deg | double |  | No |  | |  |
| speed\_km | double |  | No | |  |  |
| speed\_kn | double |  | No | |  |  |
| sattotal | int |  | No | |  |  |
| fixtype | int | 11 | No | |  |  |
| raw\_input | tinytext | 11 | No | |  |  |
| hash | char | 32 | No | |  | Time of Creation/updation of the record |

1. **pt\_position\_unreguser**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Datatype** | **Size** | **Nulls?** | Constraints | | **Description** |
| id | int | 10 | No | PK | | Auto |
| user\_entry | char | 25 | No |  | |  |
| datetime | datetime |  | No | |  |  |
| datetime\_received | datetime |  | No | |  |  |
| lat | double |  | No | |  |  |
| lon | double |  | No | |  |  |
| alt | double |  | No | |  |  |
| deg | double |  | No | |  |  |
| speed\_km | double |  | No | |  |  |
| speed\_kn | double |  | No | |  |  |
| sattotal | Int | 11 | No | |  |  |
| fixtype | Int | 11 | No | |  |  |
| raw\_input | tinytext |  | No | |  |  |
| hash | char | 32 | No | |  | Time of Creation/updation of the record |

1. **pt\_unit**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Datatype** | **Size** | **Nulls?** | Constraints | | **Description** |
| id | int | 4 | No | PK | | Auto |
| user\_id | int | 4 | No | Index | |  |
| name | tinytext |  | No | |  |  |
| imei | tinytext |  | No | |  |  |
| password | char | 32 | No | |  |  |
| icon | int | 11 | No | |  |  |
| linecol | int | 11 | No | |  | Time of Creation/updation of the record |

1. **pt\_user**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Datatype** | **Size** | **Nulls?** | Constraints | | **Description** |
| id | int | 11 | No | PK | | Auto |
| name | tinytext |  | No |  | |  |
| username | tinytext |  | No | |  |  |
| password | Varchar | 32 | No | |  |  |
| timezone | tinytext |  | No | |  |  |
| pcacredit | int |  | No | |  |  |
| registered | datetime |  | No | |  |  |
| lastlogin | datetime |  | No | |  |  |
| usergroup | int | 1 | No | |  |  |
| nonactive | int | 1 | No | |  | Time of Creation/updation of the record |

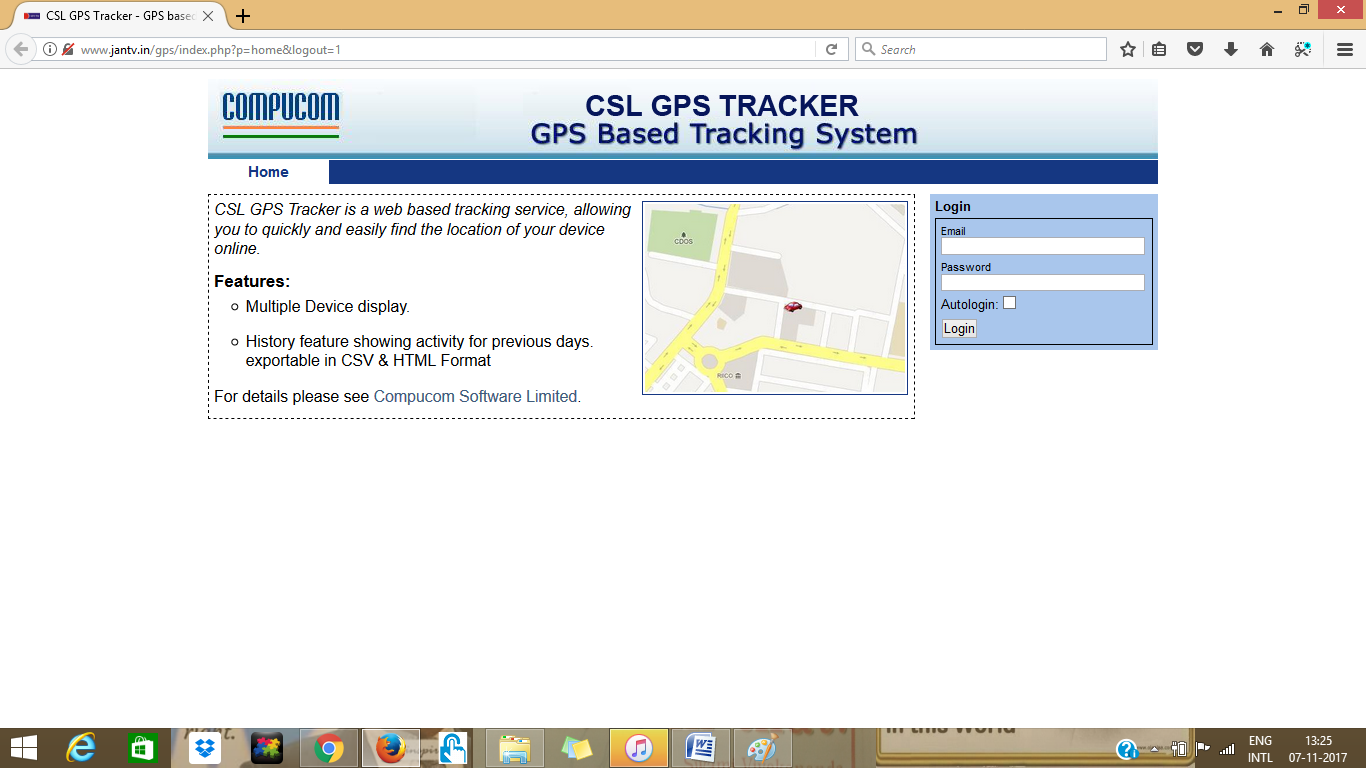
**Compucom Tracker** is a web based GPS tracking system, allowing you to quickly and easily find the location of your device online.

It has 2 users

1. Admin
2. Clients

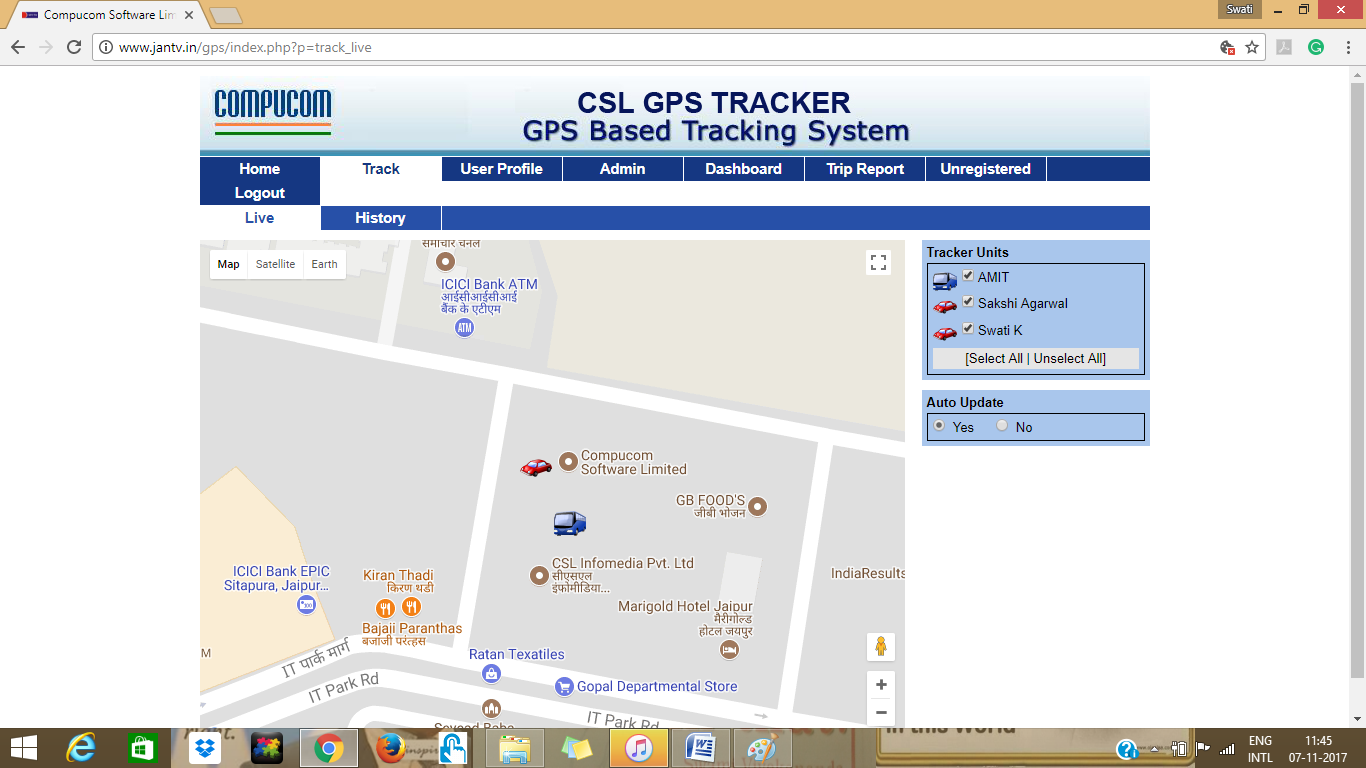
It’s app is currently serving as a GPS tracking tool to fetch the location details of the person who installs it. It transfers the details to the server which take use of the Google map services display the location of the person in map.

**1. HOME PAGE**



***Figure1: Home Page***

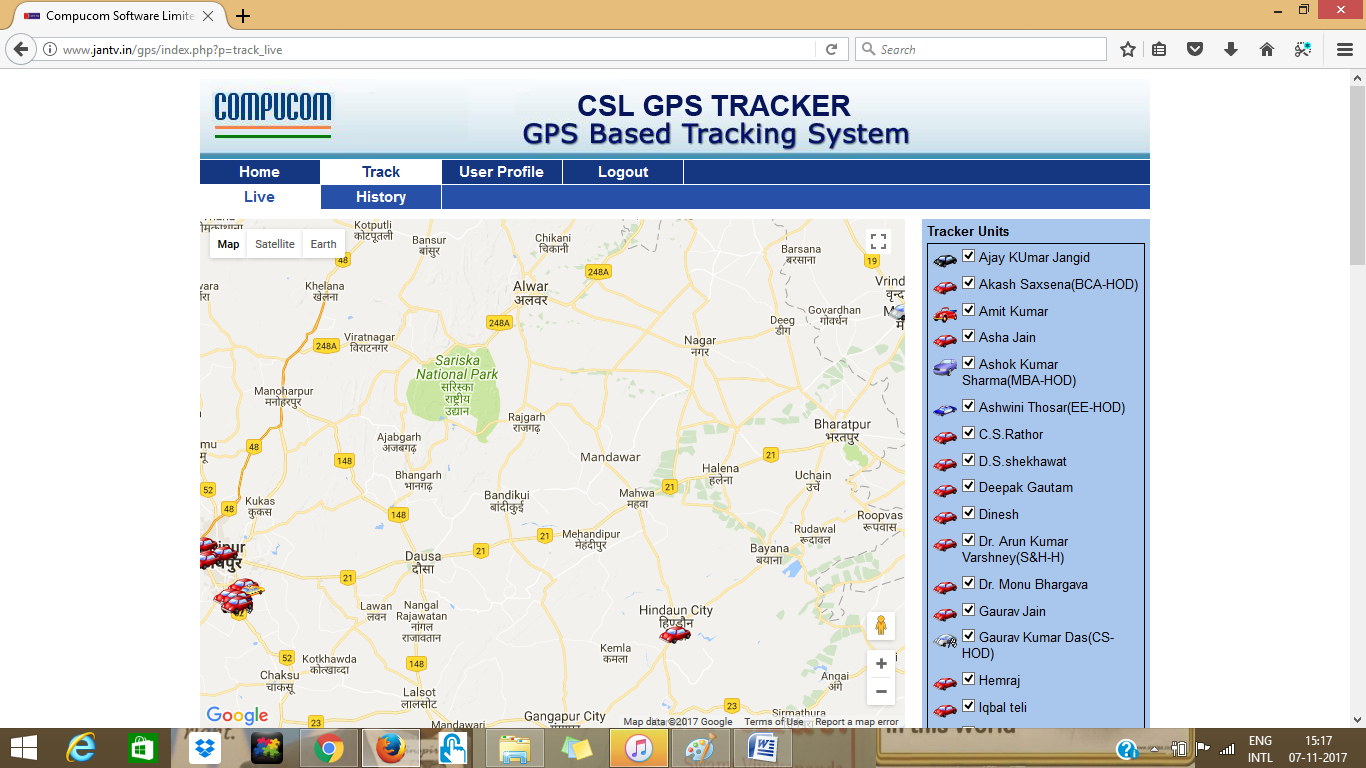
## 2. LIVE TRACK WINDOW FOR ADMIN



***Figure 2: Track Page***

## 3. LIVE TRACK WINDOW FOR CLIENT

It displays the live positioning of the device, who is being tracked.

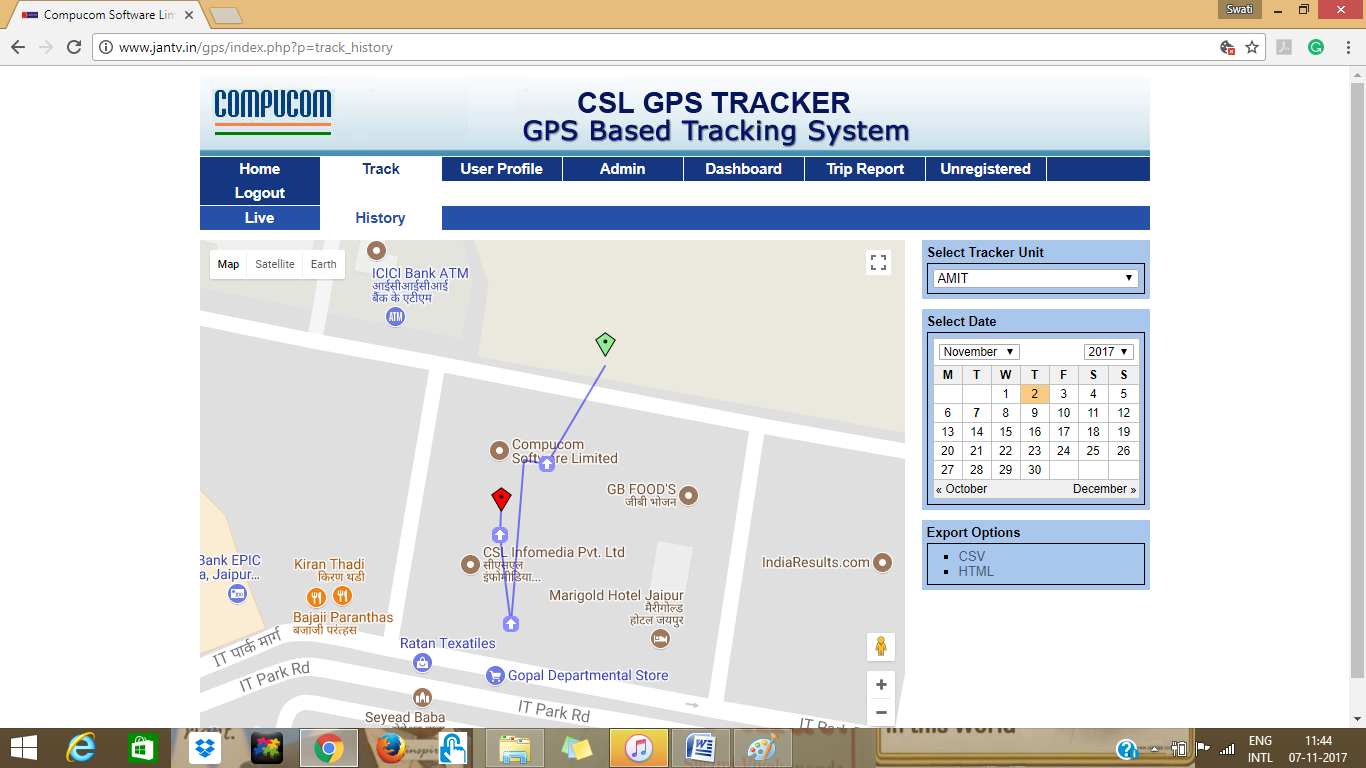


***Figure 3: Live Track window for Client***

## 4. TRACK HISTORY

Admin/Client can track location history of a person/device under History tab of the Track tab of the main menu.

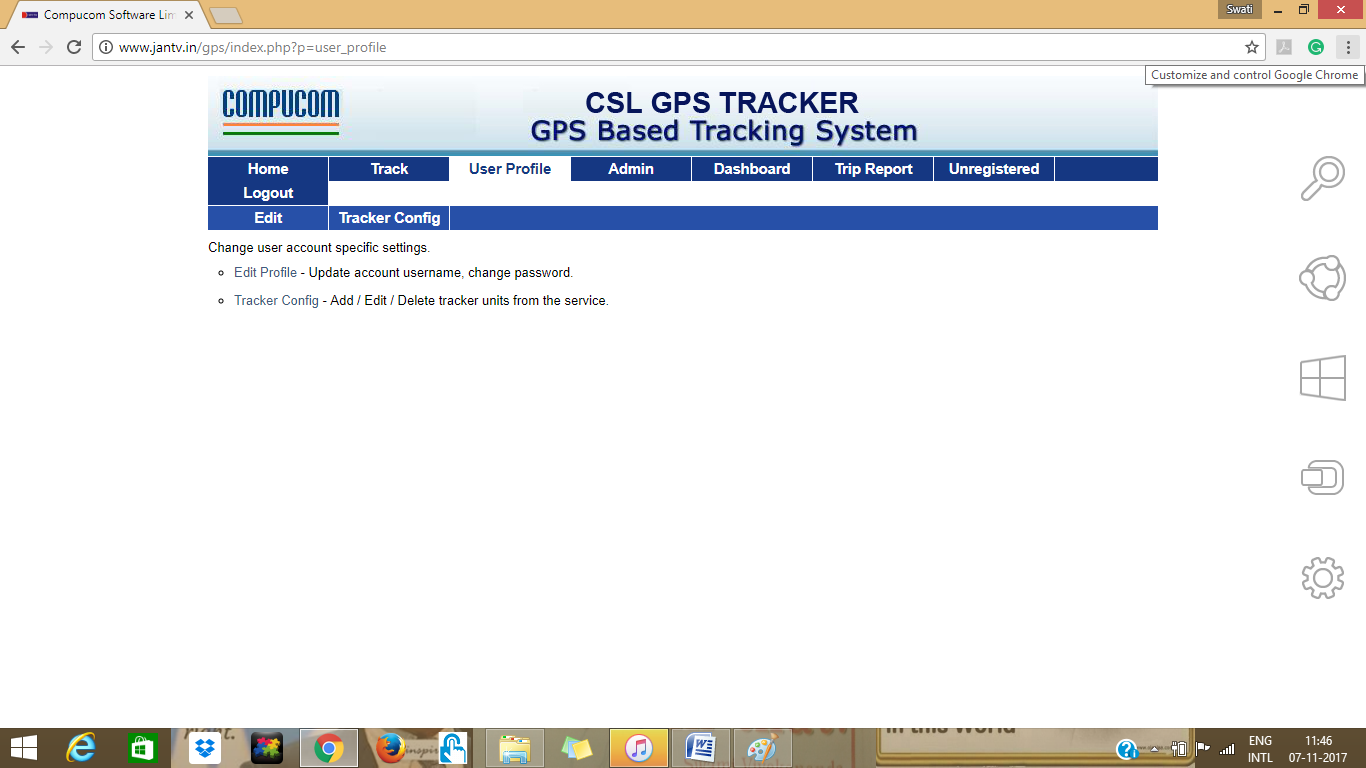
User can choose to select the date for which he wants to track the device for.



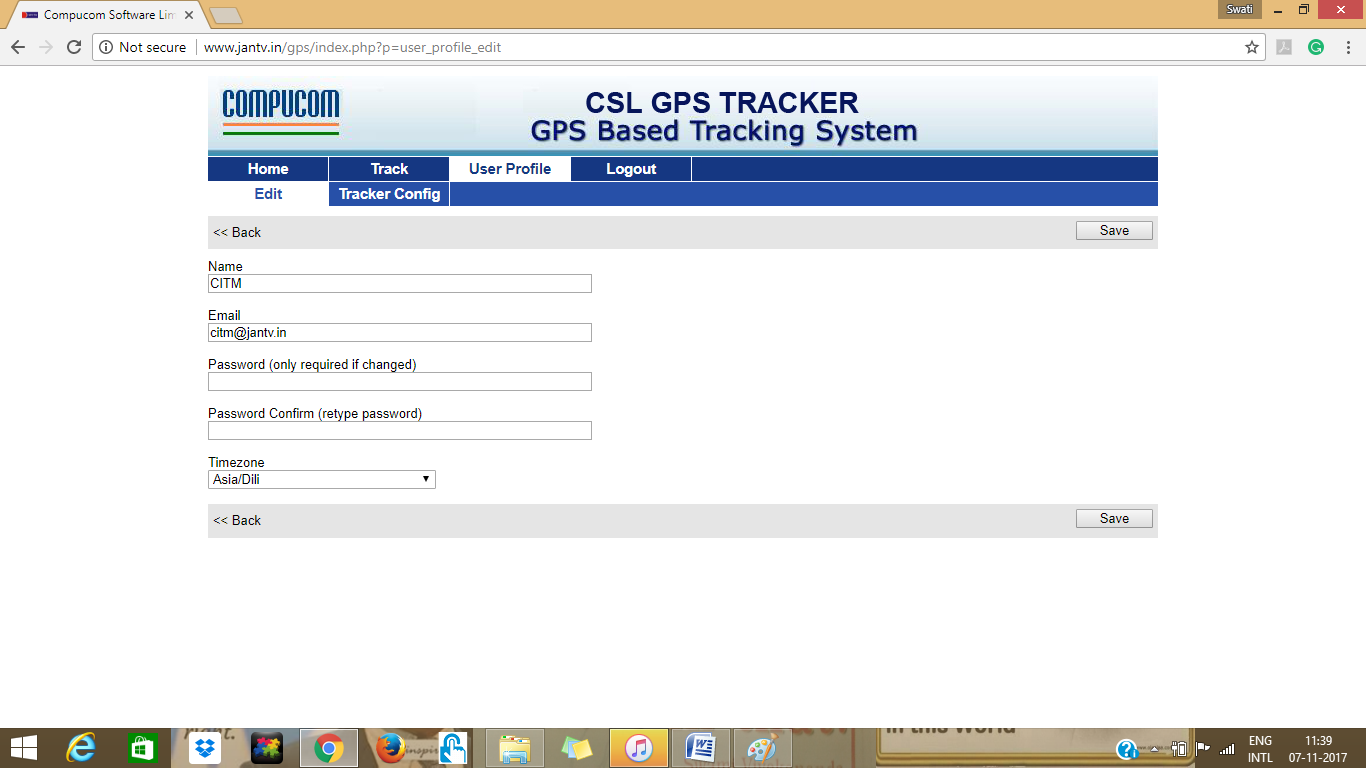
***Figure 4: History Track page for Admin***

## 5. MANAGE USER PROFILES

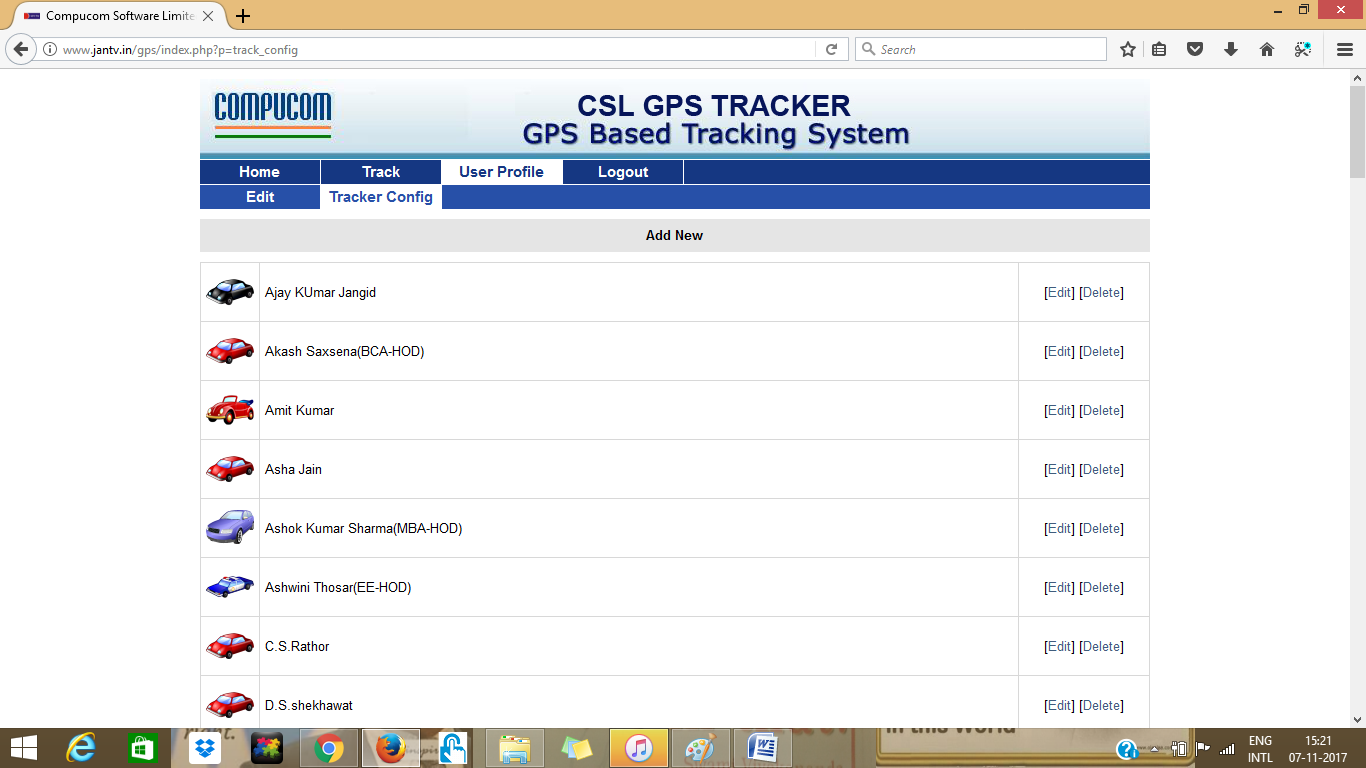
User can edit his profile and can manage devices to be tracked under **Edit** & **Tracker Config** tabs of the **User Profile** tab of main menu.



***Figure 5: User Profile Editing and Tracking device Config Management Page***



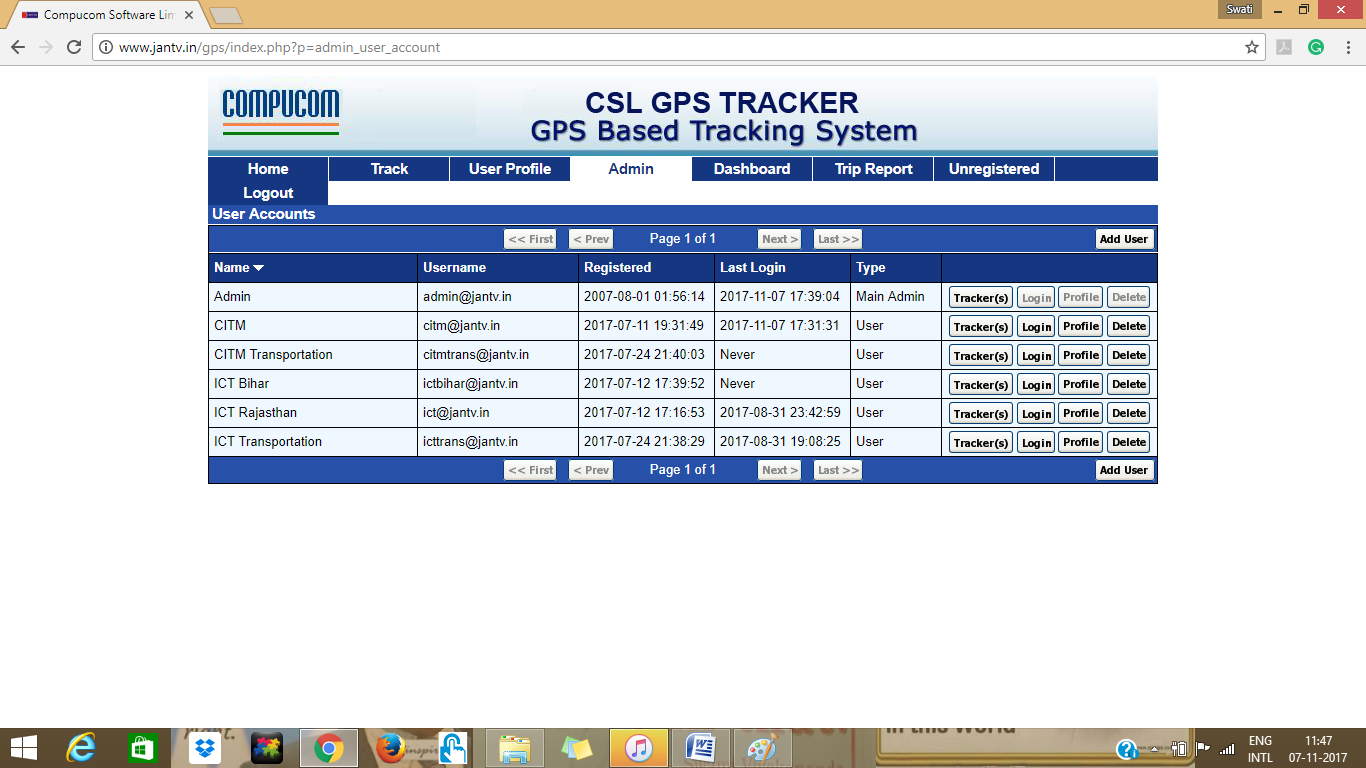
***Figure 6: User profile Edit Page***



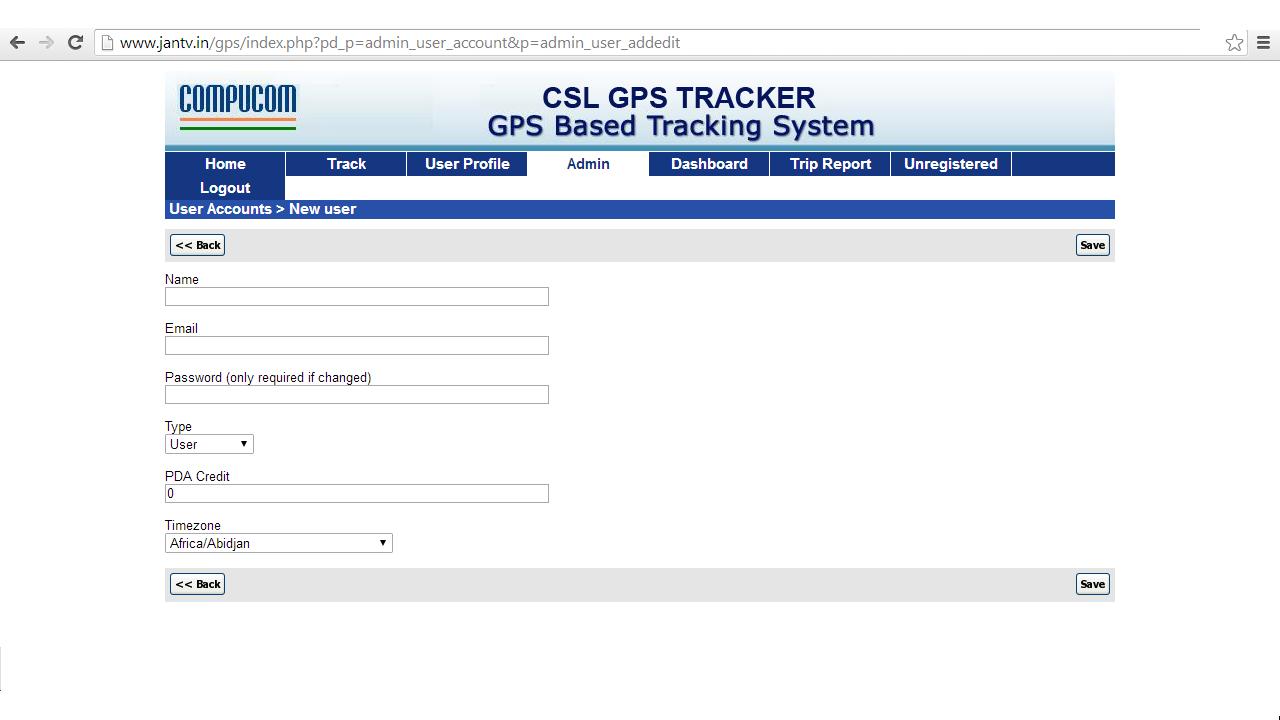
## *Figure 7 : Tracking Device Config Page*

## 6. Main Admin Page

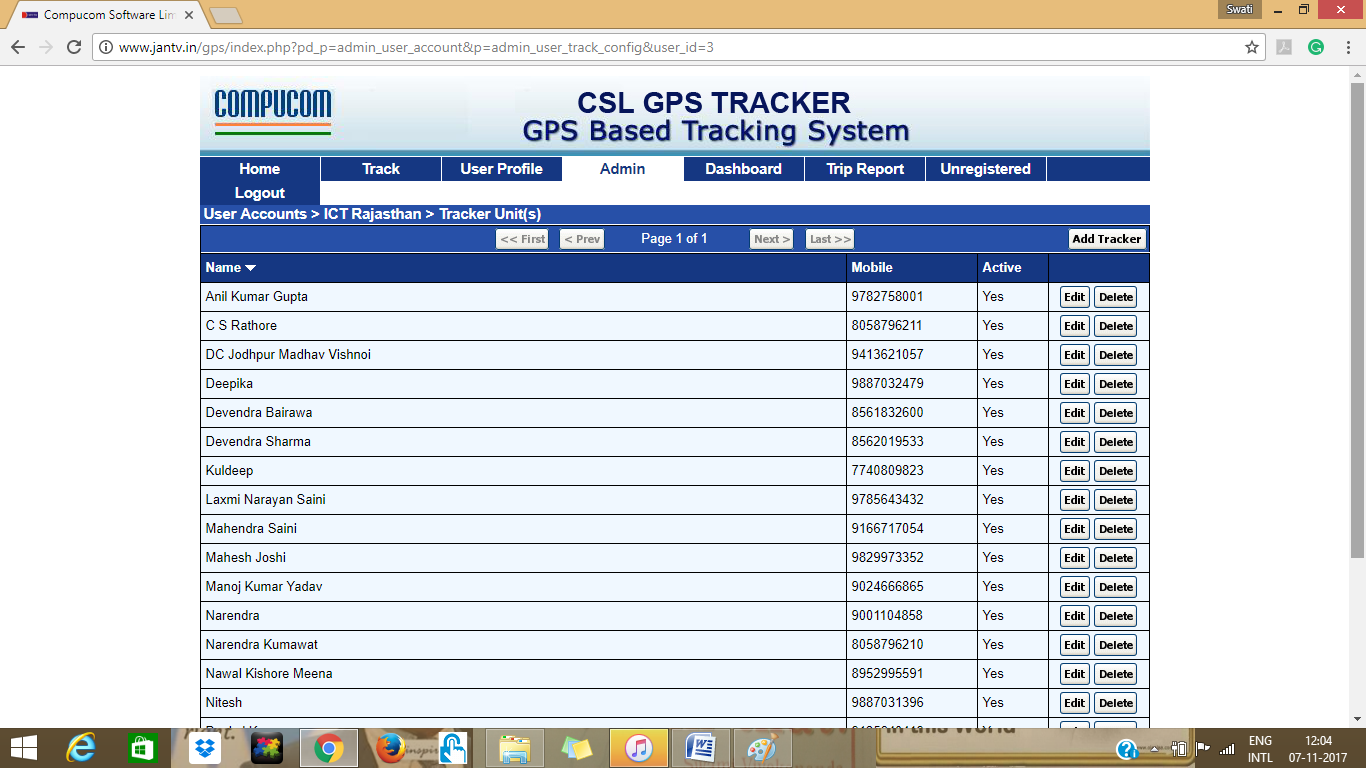
Main admin can manage its clients/user details under **Admin** main menu tab. Main admin can login to a clients page using Login tab, can edit or check tracking details of the clients devices, can edit and delete client’s profile.



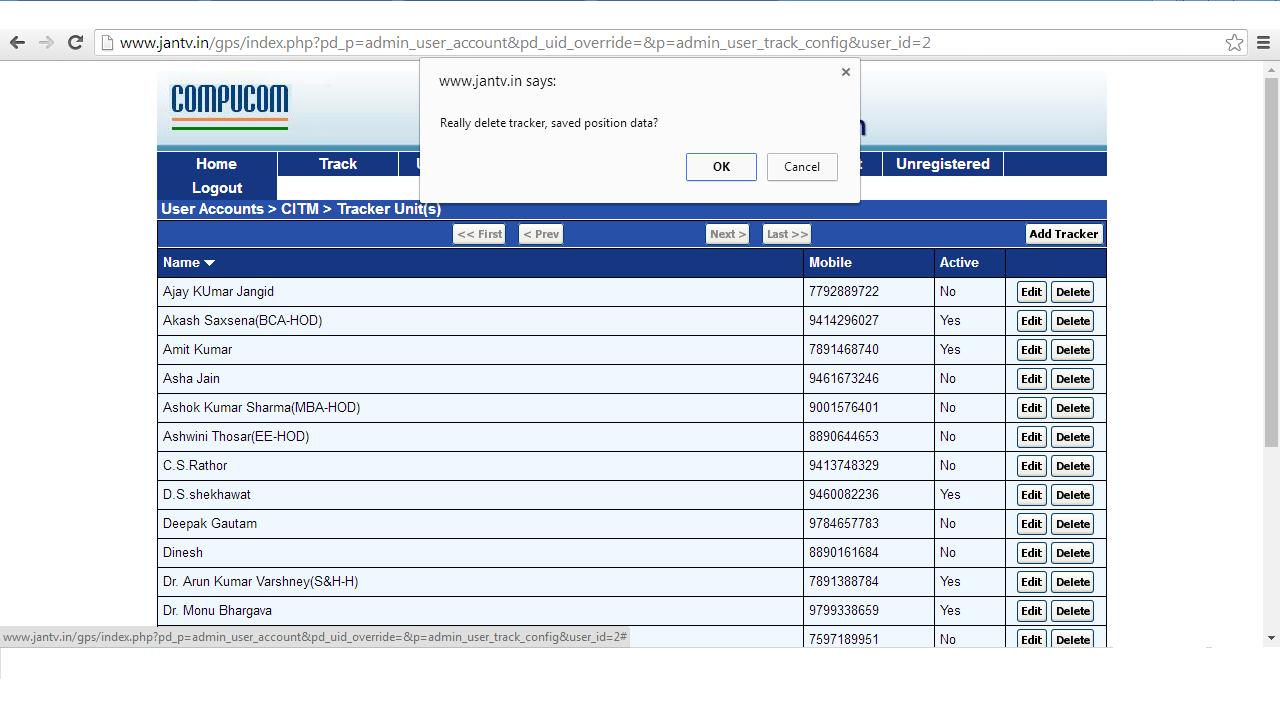
***Figure 8: Admin Page***



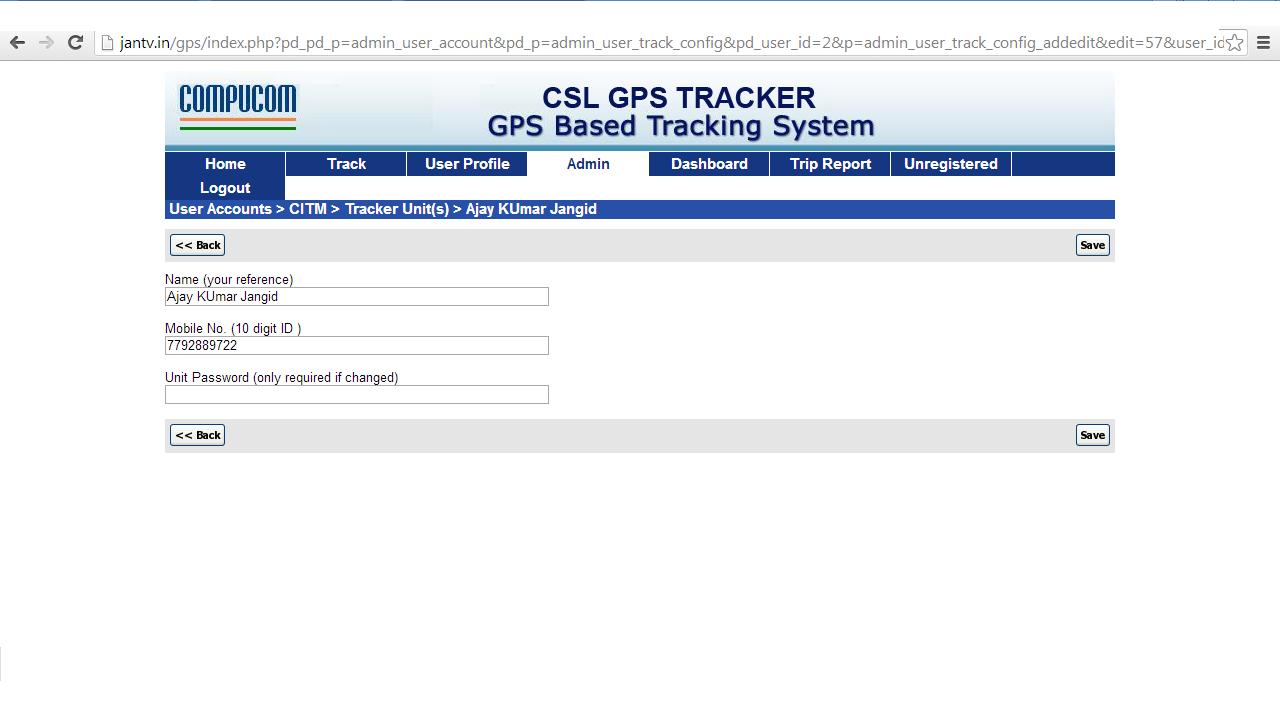
***Figure 9: Add User Page f or Admin***



***Figure 10: Tracker Management Page***



## *Figure 11: Remove Tracking Device Window*

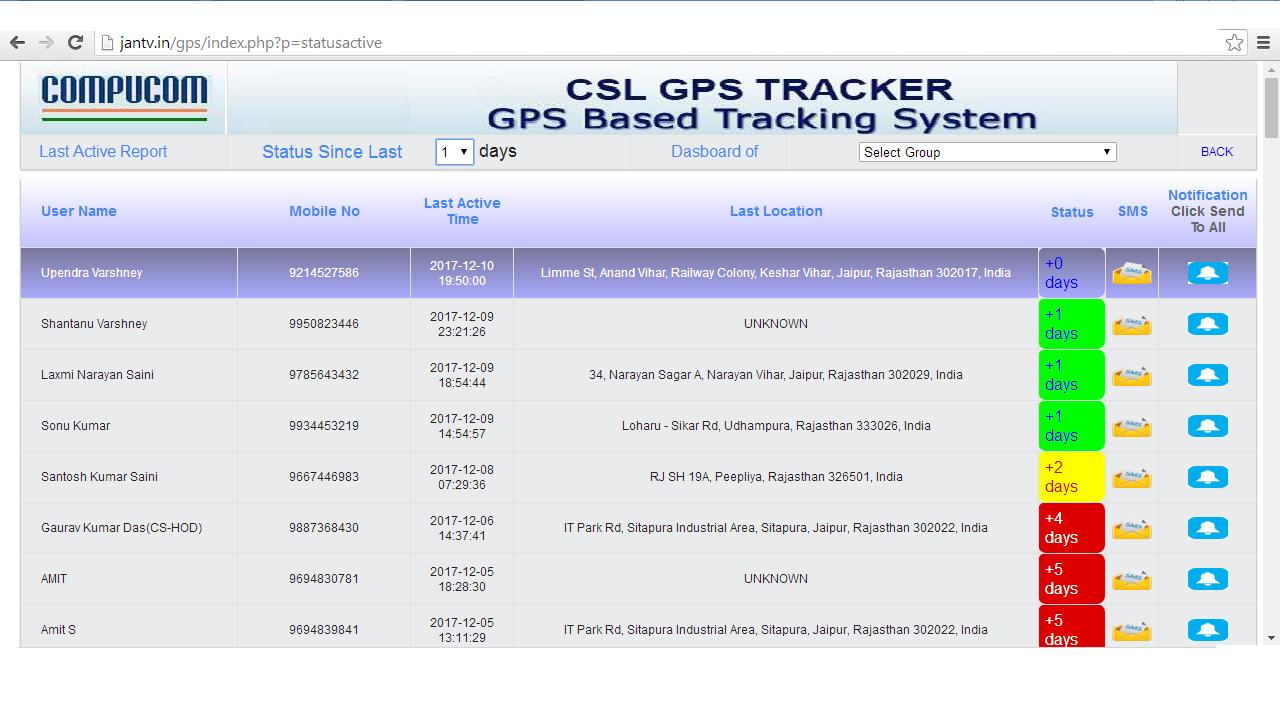


## *Figure 12: Edit Tracking Device Window*

## 7. Admin Dashboard

It’s a place where admin can check the last track status of a device and can send notifications to the devices which are inactive since long.

User can go back to the main menu with **Back** button given on the top right corner of the window.

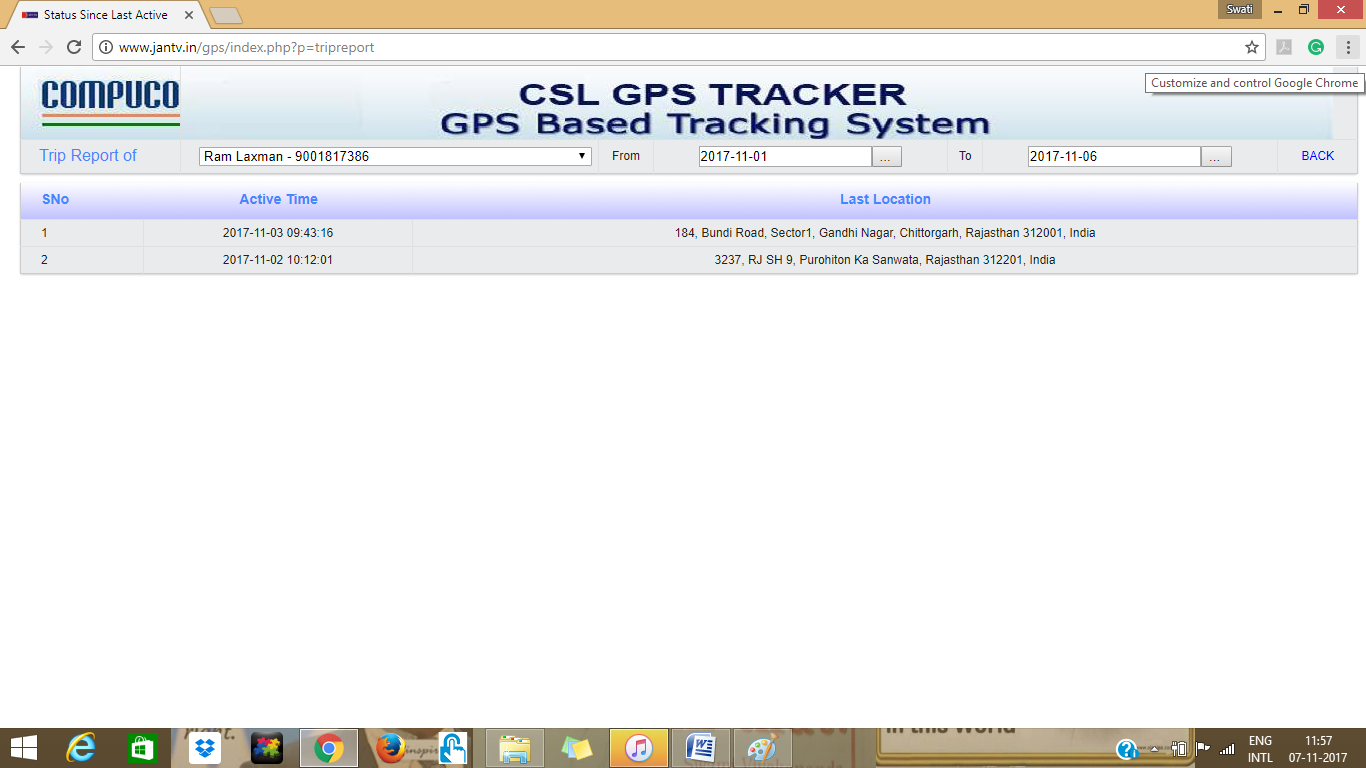


***Figure 13: Admin Dashboard***

## 8. TRIP REPORT

User can check the trip details of a device between a duration. One has to select the device owner name and the From and To date from the given drop-down menus.

User can go back to the main menu with **Back** button given on the top right corner of the window.

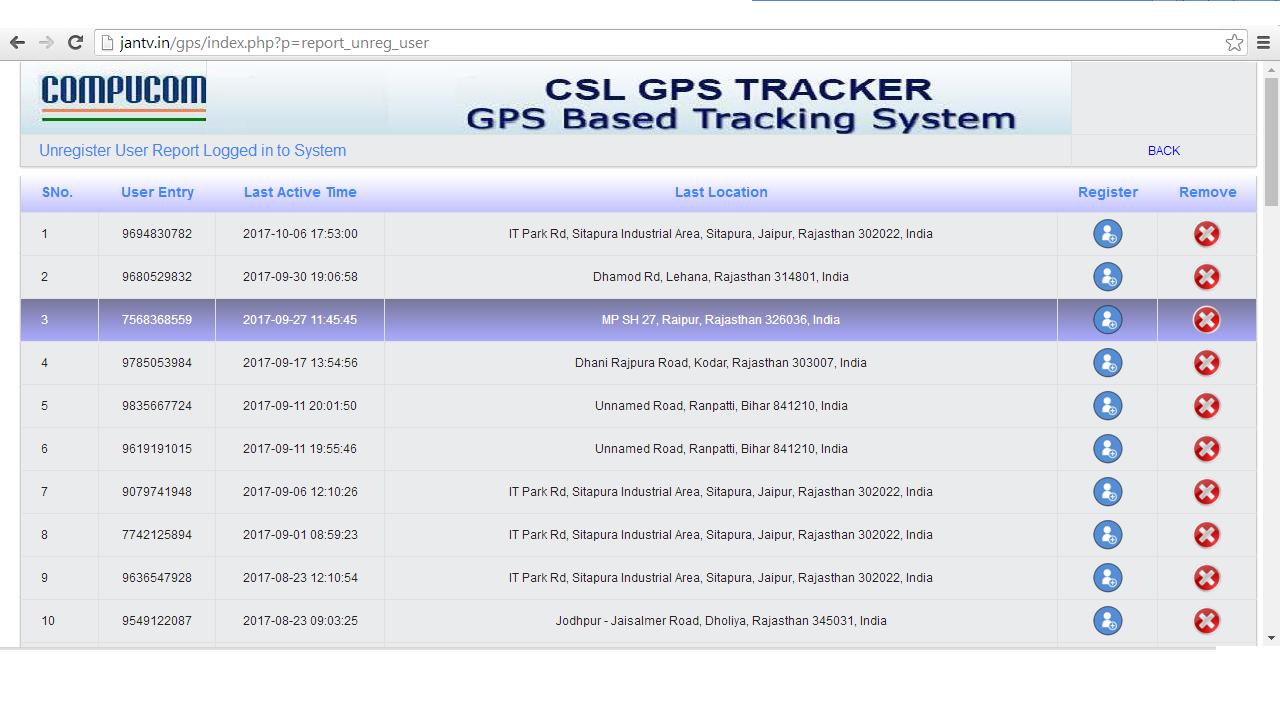


***Figure 14: Tracking Device Trip Report Page***

## 9. UNREGISTERED USER

This window displays the unregistered users, who has downloaded the Compucom Gps Tracker app but are not yet registered.

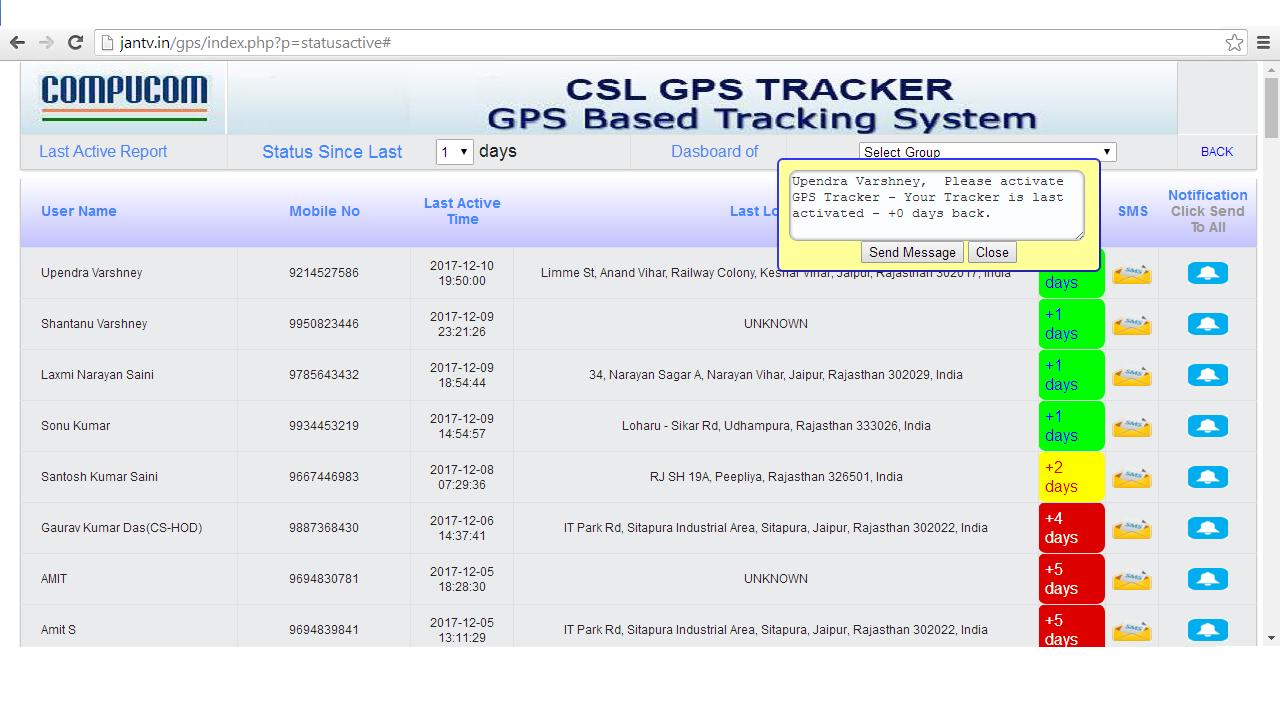
User can go back to the main menu with **Back** button given on the top right corner of the window.



***Figure 15: Unregistered User Page***

1. **SMS INTEGRATION**

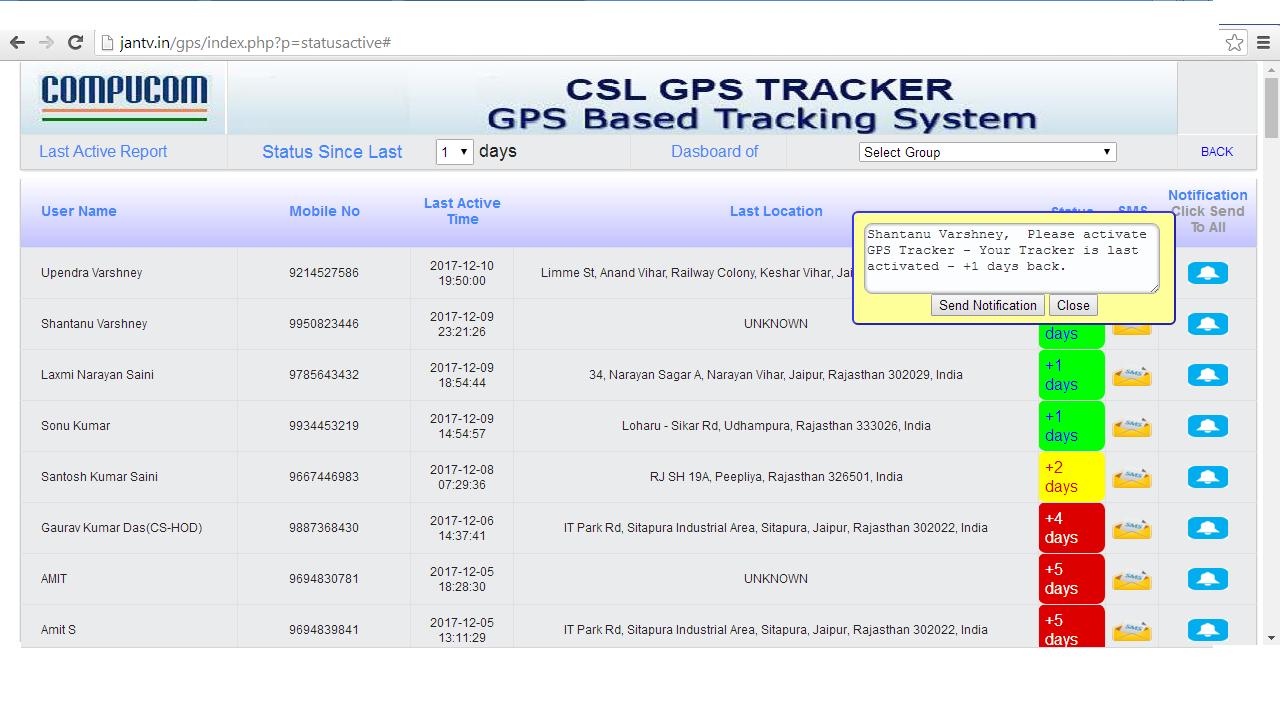
Admin can send sms on the registered mobile number of the tracking device



***Figure 16: SMS Integration window***

1. **MOBILE NOTIFICATION**

Admin user can send notifications on the android app installed in the registered smart phone.



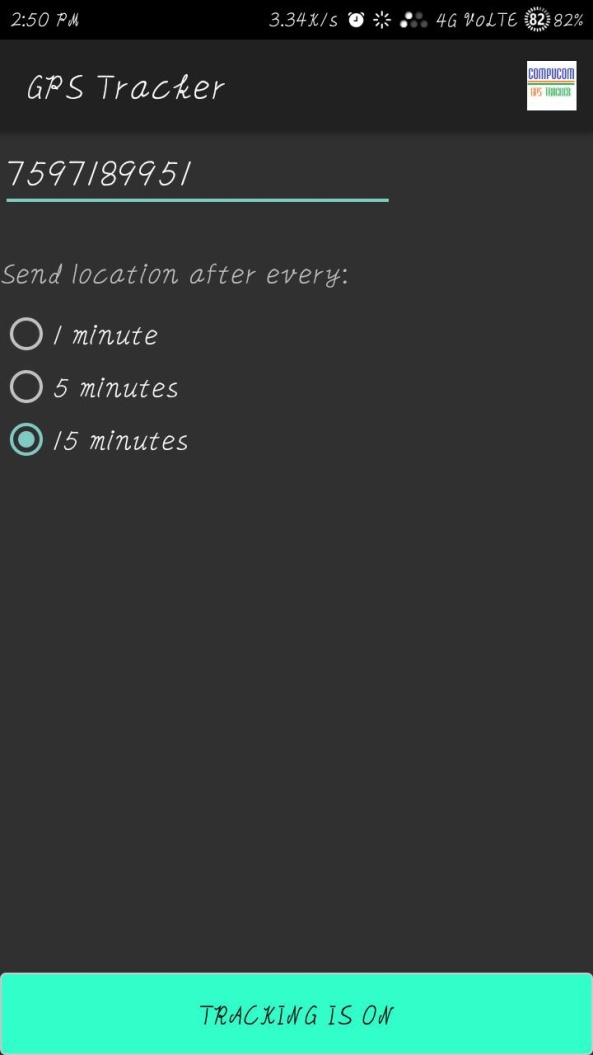
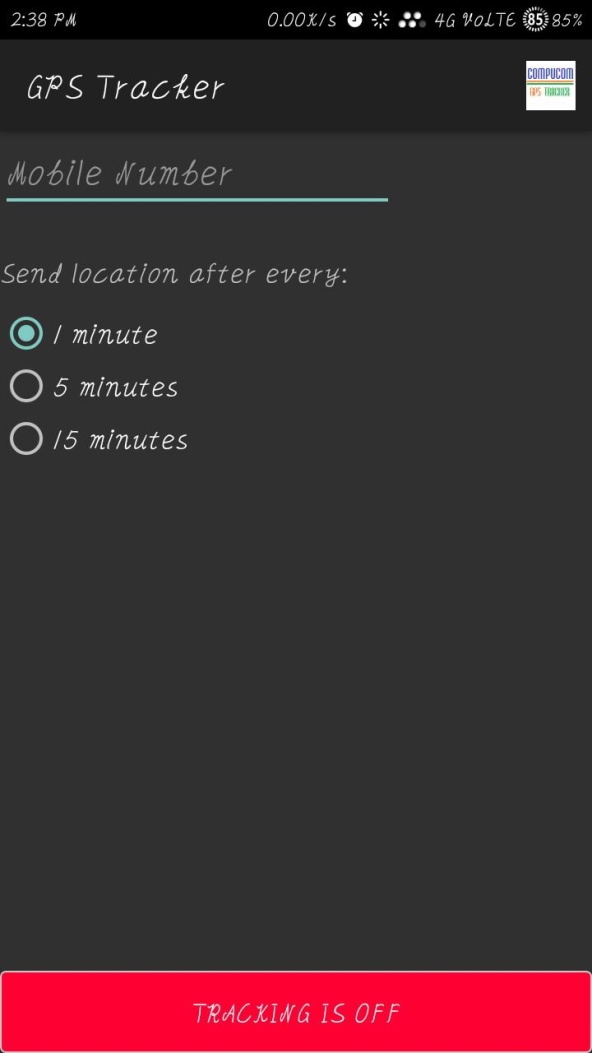
***Figure 17: Mobile Notification window***



***Figure 18: Send to All Page for Mobile Notification***

How to begin using Compucom GPS Tracker app ?

1. Download Compucom GPS Tracker app from Play Store
2. Open application on your Android device.
3. You will be getting the screen given in figure 1
4. Add your phone number in the given text box to register yourself.
5. Lastly, press the button given below saying “Tracking is Off”. It will open a window to direct you to turn your GPS or Location Services on.



***Figure 19: First Screen of Compucom GPS Tracker app******Figure 20: Screen once your phone’s GPS Tracking****.*