Person Tracking Web Application Development Based on ePC

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Abstract – At the beginning mobile phones were developed only in proper vocal condition for speaking communication but nowadays it has changed. The present acceptance of smart phones is mostly due to the possibility of selecting mobile apps that suit one's needs. The mobility of the devices can enhance applications with location-based information. Location based intimation, is a mobile base application built on the Android platform that provides personal location-based services such as location intimation, Google mapping and search previous places. So such an intimation system allows to creating location based intimation, and alerts the user by sending an SMS/Email. In this project, we develop a mobile application based on ePC platform for a purpose of homosapien. This application is used to track a person easily and provide a security for human being. In this app, only registered mobile users are enable to track the person and they will send a SMS automatically without using internet and a web application is also developed for the purpose of E-mail notification through internet . The unique features of this app uses location based technologies effectively and set this app apart from the rest of the apps in the market.

Index Terms – ePC(eProadCast),E-mail,web application.

1. INTRODUCTION

Web application is customer server programming application program that can be put away into a remote server and conveyed into web through program interface. In an essential web framework which is appeared in Figure 1, the report were gotten to and seen by a product is called"browser".The program is a product application that keeps running on a customer PC. The client can ask for a report to another PC through web program and after that the web program gets the record or searches for archive on the neighborhood document framework. The web server recovers the record from nearby document framework and after that it gives back the archive information to web program.

There are a few advances are utilized to build up a web application. They are:

- Asynchronous JavaScript and XML

- Java server page

- Hyper content increase dialect

- Java

- JavaScript

- JQuery

- Perl
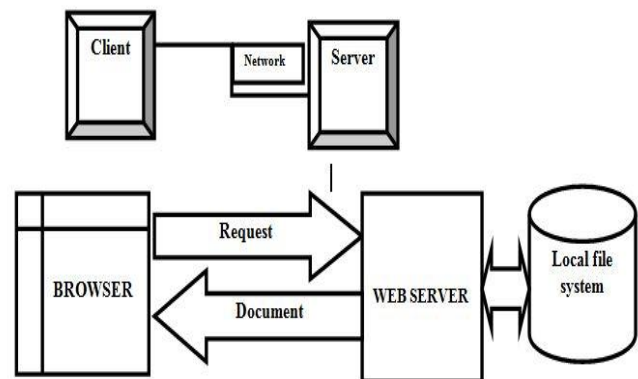
- Personal landing page

- Phython

- Ruby

Figure 1 Basic web system

The essential idea of web application is:

1.1. Web

Web is generally called as "The Net". It is an overall arrangement of PC systems to interface and trade the data.

1.2. Web based administration

A portion of the essential administrations accessible to web clients. They are:

- E-mail

- Telnet

- FTP

- World Wide Web

1.3. Internet

Internet is an accumulation of web assets like hyperlinked content, sound, video and remote locales. It is a system of online substance that is organized in HTML and HTTP.

1.4. HTTP

The extension of HTTP is Hyper Text Transfer Protocol. HTTP is utilized to exchange hypertext report that makes WWW conceivable.

1.5. URL

The extension of URL is Uniform Resource Locator and it is utilized to indicate the address on the WWW. A URL is the essential distinguishing proof for any assets associated with the web.

1.6. Web Sites

Web Site comprises of at least one site pages including sight and sound substance and ordinarily related to normal area name. Every sites has its own particular one of a kind web address which can be come to through a web association.

1.7. Web programs

Web program is for the most part alluded to as a program. It is a product application for showing and exchanging data assets on the WWW.The most well known web programs are (see Figure 2) web pilgrim, Firefox and Google chrome, and so forth.

Figure 2 Basic Web Browsers

1.8. HTML

The development of HTML is Hyper Text Mark-up Language. It comprises of set of increase images or codes embedded in a document for show a WWW program page.

2. LITERATURE SURVEY

An innovation in light of dim hypothesis has been clarified in [3]. It is conventional prescient strategies for following moving articles generally accept that moving items have straight movement designs. The area forecast model is utilized to anticipate the imminent area of dubious moving article. The primary disadvantages were just to track reason. The kalman channel and speed redesign calculation are depicted in [5]. The kalman channel is an ideal estimator and these channels are utilized to limit the mistake. It is an advantageous type of online constant handling. The speed remodel calculation is utilized to enhance and recreate the separation and speed. The last report will send through the SMS. Portrays a Location Prediction and Dynamic Threshold has been proposed in [1]. The Location-based delivery(LBD), which couple with the short message benefit (SMS) and worldwide position framework (GPS), is proposed, and further, a practical framework for following an objective's activity is created. LBD diminishes the quantity of short message transmissions while controlling the area following precision inside the worthy range. The LBD, comprises of three essential components: Short message design, position expectation, and element limit. Area forecast is performed by utilizing the present area, moving rate, and way of the objective to foresee its next area. Every single SMS some measure of cost will be allotted this is a primary disadvantages.

In [9] WINS innovation and metal location sensors are utilized to recognize the outsider. These advancements are accustomed to observing the ecological condition like land, water and air assets. It gives another observing and control a capacity for checking the outskirt of the nation. The metal finder sensor are utilized to recognize any question crossing the fringe and it can make a few sounds when it close to some metal. It just for location reason and does not send any notice to the higher experts these are the fundamental downsides. In [10] an auto observing and following framework has been enlightened. This framework is utilized to tackle the quantity of auto burglary endeavors. It can send both SMS and MMS to the proprietor if the auto close-by, however chiefly focuses on MMS as it were. Client can without much of a stretch track the auto utilizing GPS framework and share the points of interest through MMS. The primary hardship is client pay MS.

The versatile sensor organize (MSN) innovation has been proposed in [11]. These innovations are utilized to track a vehicle. The portability of sensor system can enhance the following determination and it incorporates a few parameters like sensor thickness, detecting reach, sensor and target

versatility. These parameters comprise of least number of versatile sensor and it keeps up a determination for target following in a MSN.It sense restricted range and furthermore some mistake will be happen amid transmission. Portray a remote area following calculation in [7].The position estimators related with the Kalman sifting strategies are abused to both secure position estimation and direction following for the cell phones. Here two prescient area following calculations are utilized .The Predictive Location Tracking (PLT) conspire uses the prescient data accomplished from the Kalman channel with a specific end goal to give the extra flag contributions to the area estimator. The Geometric-helped PLT (GPLT) course of action consolidates the Geometric Dilution of Precision (GDOP) data into the calculation outline.

Depicts an area construct benefit situated in light of android has been proposed in [12]. The LBS framework is utilized to recognize the present area and client can recover that data. It can be actualized an android based cell phone to give the profitable administrations get a kick out of the chance to record the present movement condition, giving directing data and find adjacent lodgings. A TriTHEApp Android application has honey bees depicted in [14]. It can be intended to fill in as a position based time protecting and wellbeing application. This application comprises of three primary components instrument to report entry, Handset robbery observing and Emergency call include. The area based suggestion has been clarified in [15]. It depends on portable applications worked in the android stage that give a mystery area based administration, for example, area suggestion, bookmarking and mapping. The mapping empowers the client to envision the land area. The principle disadvantages are to bolster android cell phone as it were.

In [2] area based administration innovation has been proposed. This kind of administration is portrayed by expansive volumes of upgrades, offering prominence to procedures for position portrayal and overhaul. The few portrayals, alongside related recharge systems, that anticipate the future places of moving articles. For all portrayals, the anticipated position of a moving item is restored at whatever point the deviation amongst it and the real position of the protest surpasses a given edge. In [6] depicts a longitudinal ethnographic and evidence of-idea framework has been recommended. the longitudinal ethnographic decide the significance of transportation assets in the creating scene and the confirmation of-idea framework are utilized to make a base up, transportation data foundation utilizing just GPS and SMS. Transportation is a vital shared asset. The framework containing an equipment gadget that comprise of a GSM modem and a GPS unit, that can be prepared on a vehicle and used to track its area.

Portrays a SMS-based framework in [8].it giving travel data construct exclusively in light of existing cell and GPS systems. The point is to allow the headway of data administrations that don't depend on a focal expert or complex web facilitating. To

created and connected our framework to the system of secretly run marshrutka transports in Bishkek, Kyrgyzstan..A hand crafted GPS-GSM unit is settled on a vehicle, and clients can inquiry our server over SMS with their own particular non-GPS empowered mobile phones. In [16] GPS based propelled vehicle following framework has been proposed. The improvements of cutting edge hardware have acquired progressive changes these fields. A vehicle following framework that utilizes a GPS module and a GSM modem to discover the area of a vehicle and offers a scope of control elements. To finish the plan effectively, a GPS unit, two transfers, a GSM Modem and two MCU units are utilized. To track a vehicle area by usig remote control gadget that can be remotely turn ON and OFF the vehicle"s start framework and remotely bolt and open the entryways of the vehicle. A SMS message is sent to the following framework and the framework reacts to the clients ask for by performing suitable activities. The fundamental downside is client pay cost benefit.

In [4] LBS, GPS and GSM innovation has been depicted. The GPS and GSM give the area based administration (LBS) for an electric wheel seat and this wheel seat is utilized for impeded individuals. It gives a superior checking administration for older folks and this technique is mostly relies on upon the GPS situating which gives the high precision. For checking and following reason the lab windows/CVI are utilized. GPS and GSM based framework has been portrayed in [13]. A GPS based following framework is utilized to track an area of a vehicle and its speed in light of cell phone instant message. The framework is anything but difficult to give constant text-based notification to speed and area. The fundamental downside of this framework is to track constrained range.

To defeat these disadvantages, we need to build up a web application in light of ePC (eprodcast) stage. It will bolster all working framework like android, windows, and ios. It is more secured on the grounds that E-mail will send just the enroll E-mail id and nobody can hack effortlessly.

3. PROPOSED METHOD

3.1. Need of Web Applications

- Now a day's the majority of the electronic applications are created by utilizing driving edge web advancements with a specific end goal to construct site. For the most part these day an accumulation of web applications are accessible and a scope of are in the streamline.

- One can deal a scope of cutting edge web application advancement devices and dialects. These propelled instruments are equipped for transporting some imperative angles for web advancement in order to fulfill clients' prerequisites. Without introducing or redesigning any application on the customer side, web applications can be effectively open on the server side.

- Web application improvement is a technique for starting distinctive applications which incorporates webmail, internet shopping, online back administration and an assortment of different procedures. Web applications can be accessible through a web program over the Internet.

- Web applications are by and large coded in a standard organization like HTML (or XHTML) and customized utilizing JavaScript, a program bolstered dialect. In any case, here SQL dialect is utilized to create web applications.

3.2. E-MAIL

The development of E-Mail is electronic mail. It is characterized as the transmission of messages over correspondences systems. Every now and again the messages are notes selected from the console or electronic documents put away on circle. Most centralized servers, minicomputers, and PC systems have an email structure. Some electronic mail structure are confined to a solitary PC framework or system, yet remains have entryways to other PC frameworks, empowering clients to send electronic mail anyplace on the planet. Organizations that are superbly modernized make broad utilization of E-mail since it is quick, adaptable, and dependable. The fundamental email address organize which is appeared in Figure 3
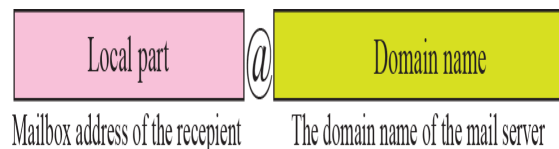

Figure 3 E-mail Address Format

3.3. SQL DATABASE

 SQL (Structured Query Language) is an extraordinary reason programming dialect intended for overseeing information held in a social database administration framework (RDBMS), or for stream preparing in a social information stream administration framework (RDSMS). SQL is a standard intuitive and programming dialect for getting data from and upgrading a database. In spite of the fact that SQL is both an ANSI (American National Standards Institute) standard and an ISO standard, numerous database items bolster SQL with exclusive augmentations to the standard dialect. SQL is an effective and various database dialect use to putting away information into databases. SQL is approximately written dialect so you can learn effortlessly. SQL is an institutionalized coding languages that was initially created by IBM for questioning, changing and characterizing social databases, utilizing decisive articulations. The SQL can do some after things:

- To execute inquiries against a database

- To recover information from a database

- To embed, redesign ,erase records from a database

- To make new databases, tables in a database

- To make put away strategies in a database

- To make sees in a database

- To set consents on tables, methodology, and Perspectives

3.4.ePC PLATFORM

The term ePC remains for "eProdCast". It is utilized to make customized applications that unite the administrations you utilize each day CRM, Sales constrain, Drop box, One Drive and then some. The Employees can utilize their Office aptitudes to make business applications sewn to their necessities. Genius manufacturer can utilize ePC Platform to assemble applications and associations speedier than at any other time. It chips away at all gadgets to Create and share applications from telephones, tablets or desktops and they work in a flash crosswise over iOS, Android and Windows. It is a virtual application. Each virtualized application keeps running inside its own condition, which incorporates registry sections, bibliotheca, supporting executables and whatever else the application needs to run. Since the application does not utilize assets outside its condition, it's conceivable to run numerous adaptations of a program or run it on cutting edge working framework than it was intended for, similar to Vista. The advantages of use virtualization is that applications that rely on upon custom drivers or bibliotheca can be effortlessly introduced, which makes sending updates and fixes less demanding. Rather than working an installer on each machine - or confiding in clients to do it. It can simply supplant the old application with the propelled adaptation, since virtualized applications are altogether contained inside a solitary executable record. A virtualized application record can be arranged just to work for a specific number of days. Application virtualization is to some degree less expensive than full desktop virtualization, which is its primary leverage over that innovation.

4. DETAILED STEPS FOR GENERATING WEB APPLICATION

- Get URL address code from the respective company.

- Create ID

- Change settings and get in to the application ePC studio.

- Select "**create new application**".

- Select the required components.

- Select "**security**" for privacy control.

- Select "**submit**".

- Select "**publish**" to generate the application which appears in the ePC studio screen.

- Get the generated web application.

5. RESULTS AND DISCUSSION

5.1. URL Address

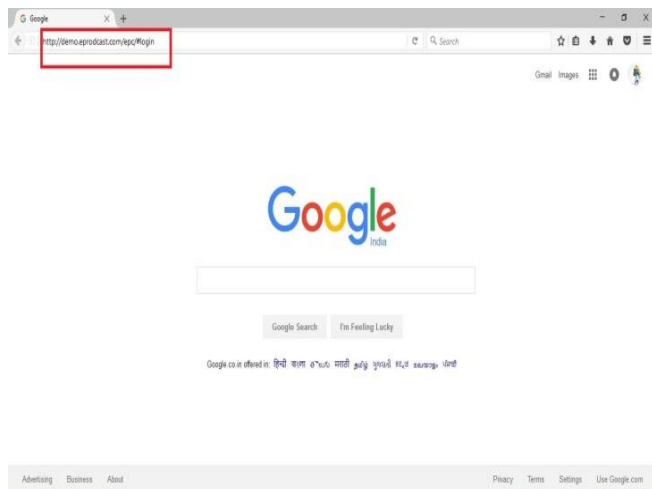The below screenshot shows, to type URL address http://demo.eprodcast.com/epc/#login in top of the Google taskbar which is shown in Figure 4

Figure 4 URL address

5.2. Registration

The below screenshot shows to registration purpose, to click register and then select "register with E-mail id" which is shown in Figure 5. Enter the details according to the particular question and then click submit button which is shown in Figure 6.To receive a password through E-mail.

Figure 5 Click E-Mail Id Registration

Figure 6 Enter the Details

5.3. ePC Login

The below screenshots shows, to login a register email id and password which is shown in Figure 7 and then to click a login button present at the bottom, which is shown in Figure 8.
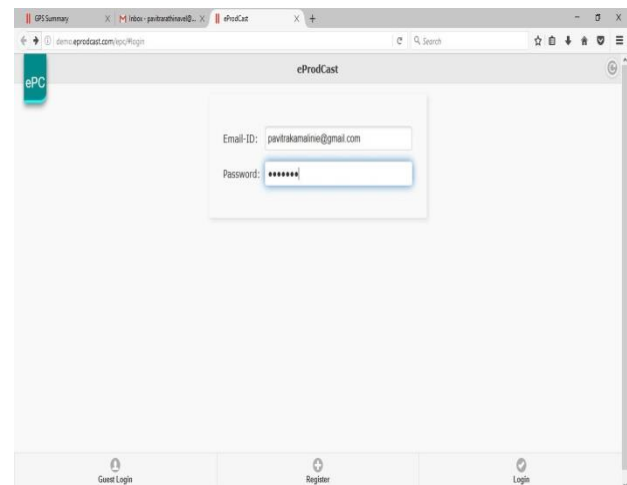

Figure 7 Enter Id and Password

Figure 8 To click login

5.4. Channel

The below screenshots shows the homosapiens tacking application. To click that applications which is shown in Figure 9.
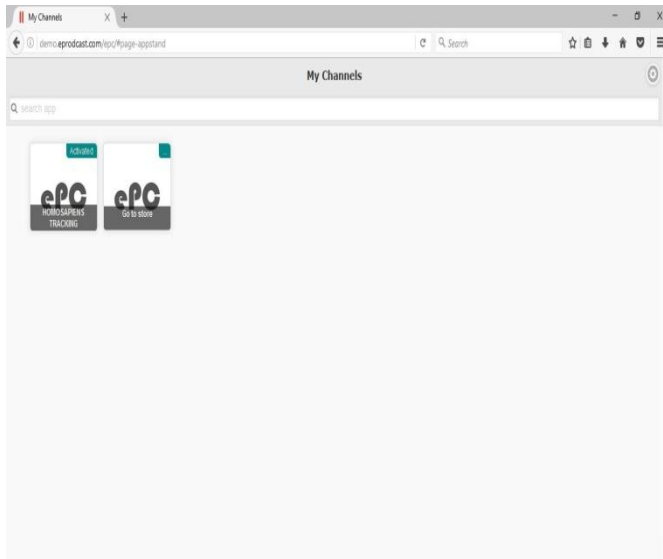

Figure 9 To Click Homosapien Applications

5.5. To View Person Tracking

In this below screenshots shows that ,to chooses a register mobile number which is shown in Figure 10 and then IMEI number will take automatically with the help of server which is shown in Figure 11. And then to click a submit button at the top of right corner.
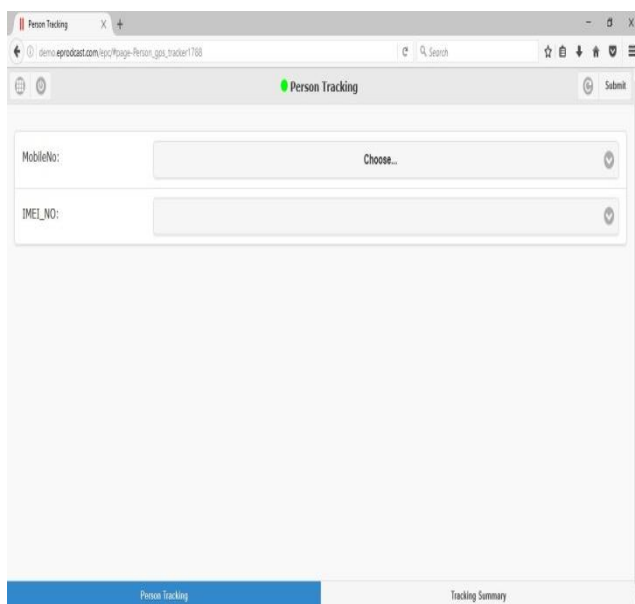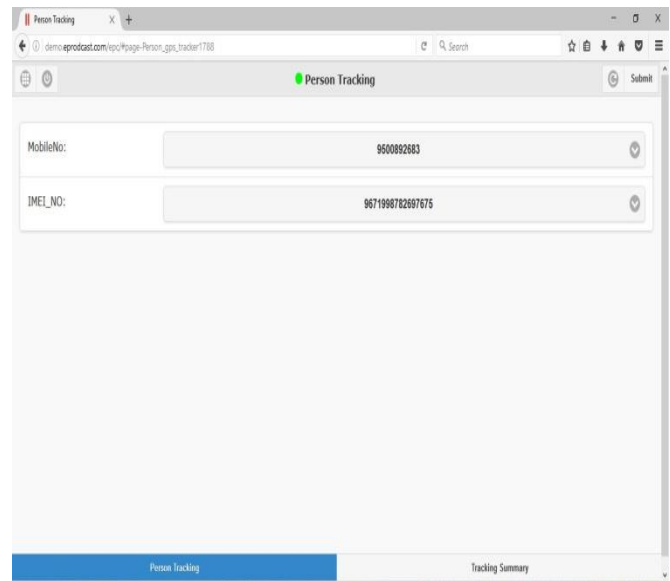

Figure 10 choose register mobile number

Figure 11 IMEI _Number

5.6. GPS Summary Report

The below screenshot shows that the GPS summary report. which is shown in Figure 12.
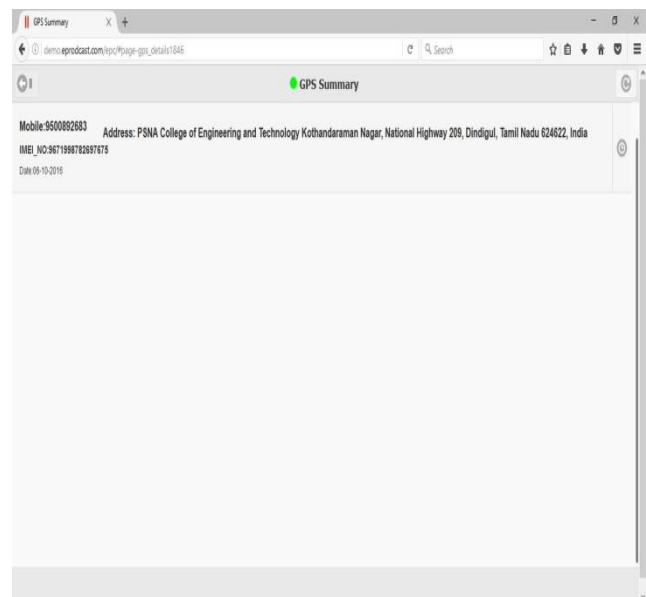

Figure 12 GPS Summary

5.7. Type a Well-wisher E-mail Id

After clicking a clock button one new page will open and the below screenshot shows, that to enter the well-wishers email id which is shown in Figure 13. If we want to send a details in more than two person just put comma to enter the email address which is shown in Figure 14.
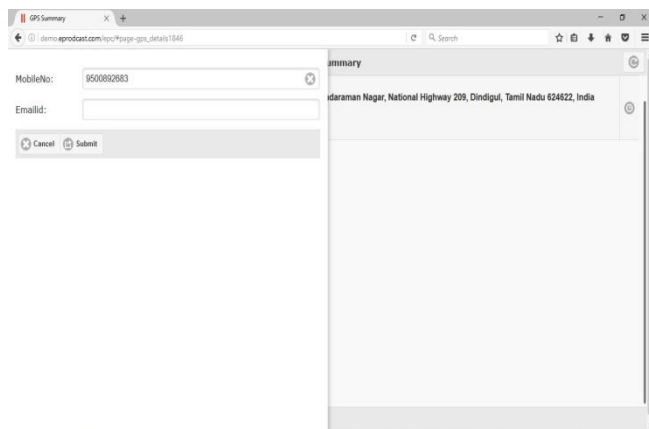
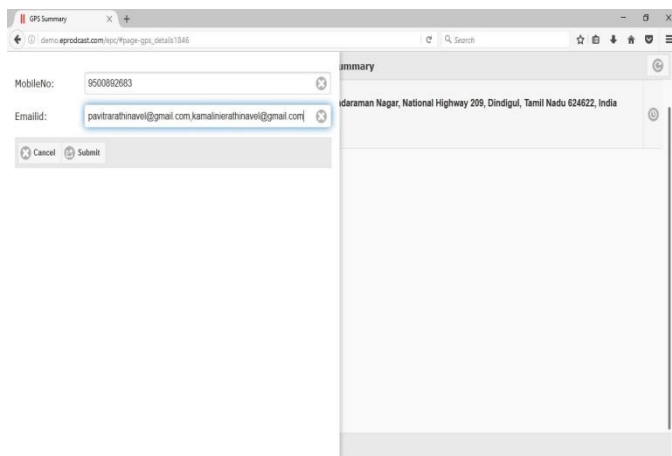Figure 13 Enter a Well-Wisher Email Id

Figure 14 To Click a Submit Button

5.8. Google Map

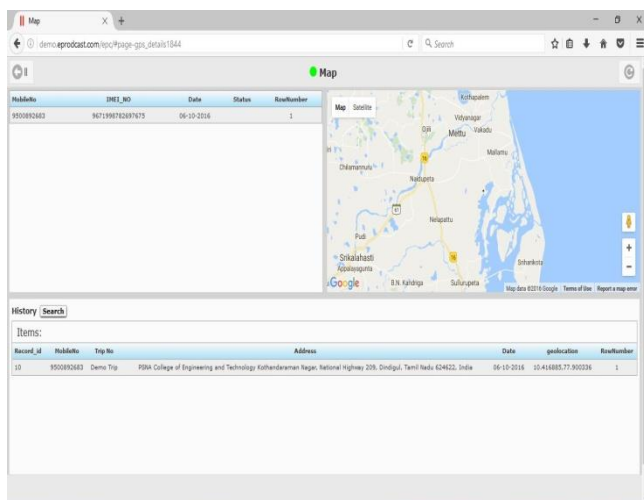If we want to see a Google map just click on the GPS summary which is shown in Figure 15.

Figure 15 Google Map Viewer

5.9. Final Result

After clicking the submit button, the mail will send automatically through internet and also we see a Google map which is shown in Figure 16.
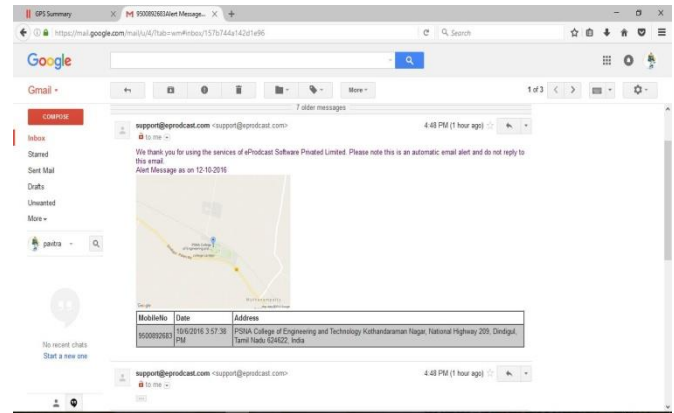

Figure 16 Final Output

6. CONCLUSION

The project has been designed to develop a web application based on ePC platform. It is used to send a current location through E-mail. It is easily customizable. Different functionalities are added according to the user's requirement. It provides secure and safe environment system, when compared with the existing system the advantage of this project is it has the tendency that it can automatically send E-mail notifications and also show the current location of the person on the Google map. It will help to reduce crimes against women.

7. FUTURE WORK

This work can be further extended from web application to mobile application. This will send the SMS notification through offline. It will further increase the security.

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